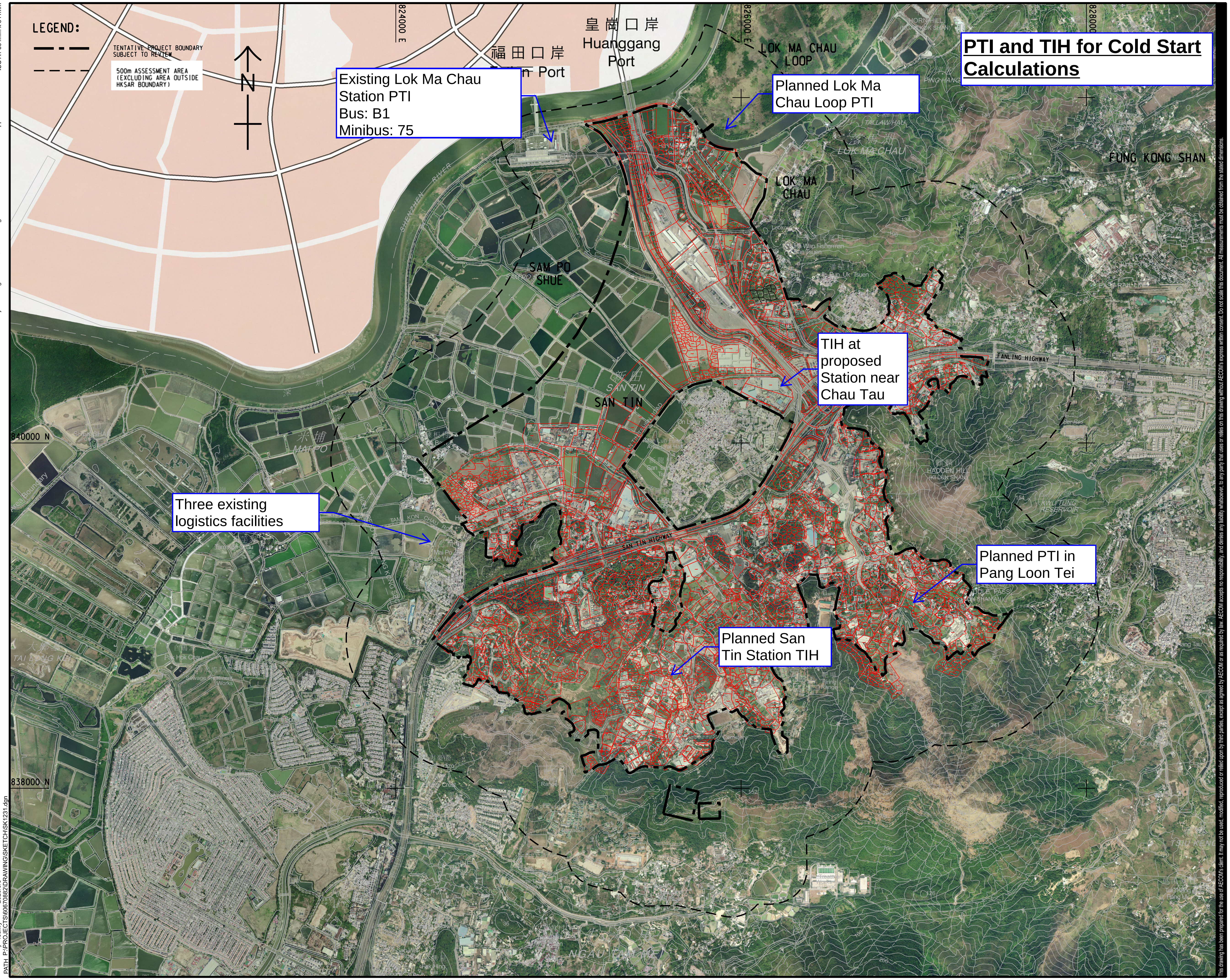

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STATUS

SCALE: A3 1 : 20000

DIMENSION UNIT: METRES

KEY PLAN

PROJECT NO.: 60670882

AGREEMENT NO.: CE 20/2021

SHEET TITLE: TREE GROUPS

SHEET NUMBER: 60670882/SK1139

ISO A1 594mm x 841mm

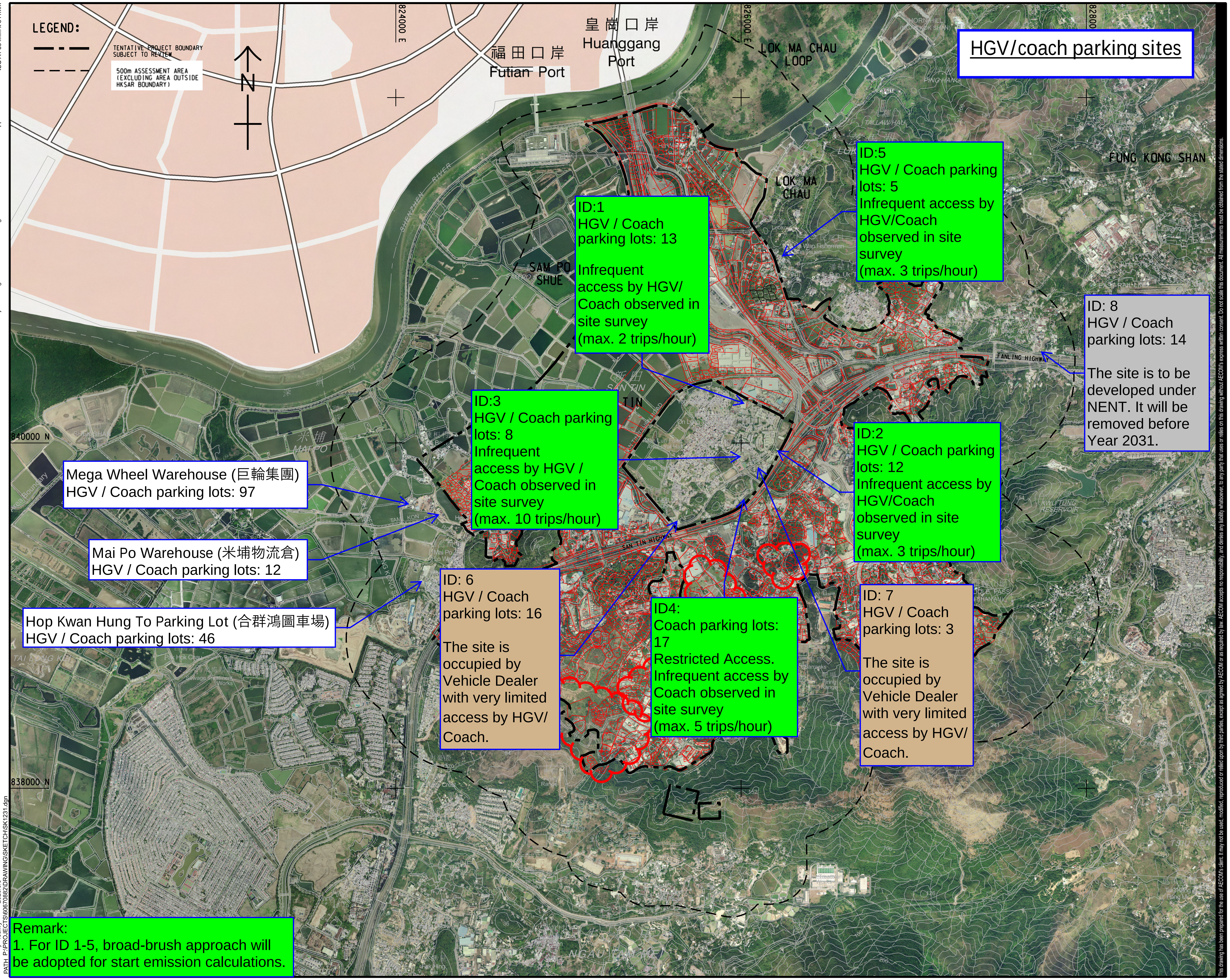
Approved:

Checked:

Designer:

Project Management Initials:

Plot File by: Tsuiwy
2023/5/8
PATH: P:\PROJECTS\60670882\DRAWING\SKETCH\SK1231.dgn



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STATUS

SCALE: A3 1 : 20000

DIMENSION UNIT: METRES

KEY PLAN

PROJECT NO. 60670882

AGREEMENT NO. CE 20/2021

SHEET TITLE

Locations of Concerned Facilities

SHEET NUMBER

60670882/SK1139

ISO A1 594mm x 841mm

Approved:

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Designer:

Project Management Initials:

Plot File by: YaoFB 2/12/2023
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STATUS

SCALE: A3 1 : 500

DIMENSION UNIT: METRES

KEY PLAN A3 1 : 200000

PROJECT NO.: 60670882

AGREEMENT NO.: CE 20/2021

SHEET TITLE

LOCATIONS OF CONCERNED FACILITIES

SHEET 1 OF 8

SHEET NUMBER

60670882/A34/Appendix 3.6.6

NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60670882/A34/Appendix 3.6.6.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60670882/A34/Appendix 3.6.6 TO 3.6.13.

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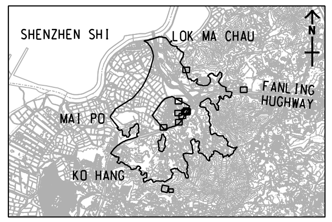
STATUS 階段

SCALE 比例: A3 1 : 500

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60670882

AGREEMENT NO. 協議編號: CE 20/2021

SHEET TITLE 圖紙名稱

LOCATIONS OF CONCERNED FACILITIES

SHEET 2 OF 8

SHEET NUMBER 圖紙編號

60670882/A34/Appendix 3.6.7

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ISO A1 594mm x 841mm

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Designer:

Project Management Initials:

Plot File by: YaoFB 2/12/2023

PATH P:\PROJECTS\60670882\DRAWING\REPORT\A34\A34_762.dgn

NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60670882/A34/Appendix 3.6.6.
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60670882/A34/Appendix 3.6.6 TO 3.6.13.

ISO A1 594mm x 841mm

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Designer:

Project Management Initials:

Plot File by: YaoFB 2/12/2023

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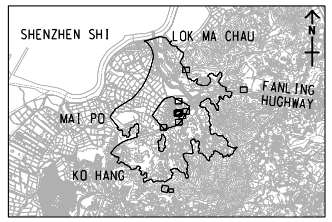
STATUS 階段

SCALE 比例: A3 1 : 500

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60670882

AGREEMENT NO. 協議編號: CE 20/2021

SHEET TITLE 圖紙名稱

LOCATIONS OF CONCERNED FACILITIES

SHEET 3 OF 8

SHEET NUMBER 圖紙編號

60670882/A34/Appendix 3.6.8

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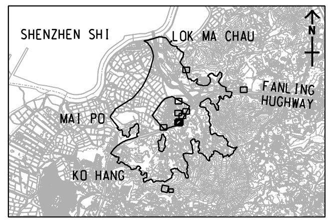
STATUS
階段

SCALE 比例: A3 1 : 500

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60670882

AGREEMENT NO. 協議編號: CE 20/2021

SHEET TITLE
圖紙名稱

LOCATIONS OF CONCERNED FACILITIES

SHEET 4 OF 8

SHEET NUMBER
圖紙編號

60670882/A34/Appendix 3.6.9

ISO A1 594mm x 841mm

Approved:

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Designer:

Project Management Initials:

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SCALE 比例 A3 1 : 500

DIMENSION UNIT 尺寸單位 METRES

KEY PLAN 索引圖 A3 1 : 200000

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AGREEMENT NO. 協議編號 CE 20/2021

SHEET TITLE 圖紙名稱

LOCATIONS OF CONCERNED FACILITIES

SHEET 5 OF 8

SHEET NUMBER 圖紙編號

60670882/A34/Appendix 3.6.10

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NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60670882/A34/Appendix 3.6.6.
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60670882/A34/Appendix 3.6.6 TO 3.6.13.

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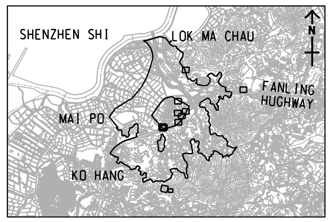
STATUS 階段

SCALE 比例 A3 1 : 500

DIMENSION UNIT 尺寸單位 METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號 60670882

AGREEMENT NO. 協議編號 CE 20/2021

SHEET TITLE 圖紙名稱

LOCATIONS OF CONCERNED FACILITIES

SHEET 6 OF 8

SHEET NUMBER 圖紙編號

60670882/A34/Appendix 3.6.11

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Plot File by: YaoFB 2/12/2023

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Designer:

Project Management Initials:

NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60670882/A34/Appendix 3.6.6.
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60670882/A34/Appendix 3.6.6 TO 3.6.13.

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SCALE 比例: A3 1 : 500

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000

SHENZHEN SHI
LOK MA CHAU
FANLING HIGHWAY
MAI PO
KO HANG

PROJECT NO. 項目編號: 60670882

AGREEMENT NO. 協議編號: CE 20/2021

SHEET TITLE 圖紙名稱

LOCATIONS OF CONCERNED FACILITIES

SHEET 7 OF 8

SHEET NUMBER 圖紙編號

60670882/A34/Appendix 3.6.12

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NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60670882/A34/Appendix 3.6.6.
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60670882/A34/Appendix 3.6.6 TO 3.6.13.

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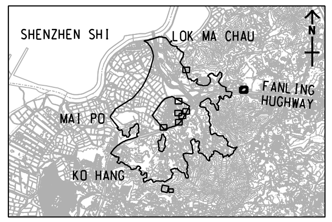
STATUS 階段

SCALE 比例: A3 1 : 500

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A3 1 : 200000



PROJECT NO. 項目編號: 60670882

AGREEMENT NO. 協議編號: CE 20/2021

SHEET TITLE 圖紙名稱

LOCATIONS OF CONCERNED FACILITIES

SHEET 8 OF 8

SHEET NUMBER 圖紙編號

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Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Calculation of Iding Emission Factor

PC (Diesel)

NO/NO_2 Ratio = 7.79 From EMFAC [1]

	Population [20]	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/hr) [3]	PM (g/hr) [3]	NOx (g/hr) [5]	PM (g/hr) [6]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	53.65%	1.61E+00	5.00E-02	1.61E+00	5.00E-02	-	1.3	5.362E-02	4.752E-02	6.098E-03	8.116E-04	5.362E-02	4.752E-02	6.098E-03	8.116E-04
Euro V	45.86%	3.45E+00	2.00E-02	3.45E+00	2.00E-02										
Euro IV	0.34%	5.96E+00	1.60E-01	5.96E+00	1.60E-01										
Euro I	0.07%	4.88E+00	5.80E-01	4.88E+00	5.80E-01										
Pre-Euro	0.08%	6.57E+00	6.30E-01	6.57E+00	6.30E-01										

PC (Petrol)

NO/NO_2 Ratio = 18.96 From EMFAC [1]

	Population [20]	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/hr) [3]	PM (g/hr) [3]	NOx (g/hr) [7]	PM (g/hr) [8]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	85.87%	6.00E-02	0.00E+00	6.00E-02	0.00E+00	-	1.3	1.466E-03	1.393E-03	7.348E-05	2.448E-05	1.466E-03	1.393E-03	7.348E-05	2.448E-05
Euro V	11.25%	8.00E-02	1.00E-02	8.00E-02	1.00E-02										
Euro IV	2.60%	2.30E-01	0.00E+00	2.30E-01	0.00E+00										
Euro III	0.24%	3.00E-01	0.00E+00	3.00E-01	0.00E+00										
Euro II	0.04%	9.60E-01	1.00E-02	9.60E-01	1.00E-02										
Euro I	0.00%	7.60E-01	1.00E-02	7.60E-01	1.00E-02										
Pre-Euro	0.01%	1.18E+00	1.00E-02	1.18E+00	1.00E-02										

Taxi (Petrol)

NO/NO_2 Ratio [1] = 19.27 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/hr) [3]	PM (g/hr) [3]	NOx (g/hr) [9]	PM (g/hr) [9]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro V	100.00%	8.00E-02	1.00E-02	8.00E-02	1.00E-02	-	1.3	1.733E-03	1.648E-03	8.550E-05	2.167E-04	1.733E-03	1.648E-03	8.550E-05	2.167E-04

Taxi (LPG)

NO/NO_2 Ratio = 35.63 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2]	PM (g/hr) [3]	NOx (g/hr) [10]	PM (g/hr) [10]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	87.63%	2.80E-03	0.00E+00	1.01E+01	0.00E+00	-	1.3	1.681E-01	1.635E-01	4.590E-03	0.000E+00	2.186E-01	2.126E-01	5.967E-03	0.000E+00
Euro V	12.22%	2.80E-03	0.00E+00	1.01E+01	0.00E+00										
Euro IV	0.10%	3.50E-03	0.00E+00	1.26E+01	0.00E+00										
Euro II/III	0.05%	5.70E-03	0.00E+00	2.05E+01	0.00E+00										

LGV3 (Diesel)

NO/NO_2 Ratio = 13.80 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [17]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/hr) [3]	PM (g/hr) [3]	NOx (g/hr) [11]	PM (g/hr) [12]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	92.11%	1.28E+00	2.00E-02	1.28E+00	2.00E-02	-	1.3	3.170E-02	2.956E-02	2.142E-03	4.333E-04	3.170E-02	2.956E-02	2.142E-03	4.333E-04
Euro V	7.89%	3.60E+00	2.00E-02	3.60E+00	2.00E-02										

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Calculation of Iding Emission Factor

LGV3 (Petrol)

NO/NO_2 Ratio = 19.03 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/hr) [3]	PM (g/hr) [3]	NOx (g/hr) [13]	PM (g/hr) [14]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	76.76%	7.00E-02	0.00E+00	7.00E-02	0.00E+00	-	1.3	2.684E-03	2.550E-03	1.340E-04	1.224E-05	2.684E-03	2.550E-03	1.340E-04	1.224E-05
Euro V	12.05%	6.00E-02	0.00E+00	6.00E-02	0.00E+00										
Euro IV	2.62%	1.70E-01	0.00E+00	1.70E-01	0.00E+00										
Euro III	2.92%	3.40E-01	0.00E+00	3.40E-01	0.00E+00										
Euro II	1.06%	6.00E-01	1.00E-02	6.00E-01	1.00E-02										
Euro I	1.15%	1.69E+00	1.00E-02	1.69E+00	1.00E-02										
Pre-Euro	3.43%	6.60E-01	1.00E-02	6.60E-01	1.00E-02										

LGV6 (Diesel)

NO/NO_2 Ratio = 2.57 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor [17]	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [15]	PM (g/hr) [16]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	85.31%	1.00E-03	1.00E-02	1.75E+00	1.00E-02	0.9	1.3	7.586E-02	5.462E-02	2.124E-02	4.528E-04	6.265E-02	4.511E-02	1.754E-02	4.528E-04
Euro V	14.69%	2.80E-03	1.00E-01	1.17E+01	1.00E-01										
Euro IV	0.00%	2.80E-03	2.00E-01	7.51E+00	2.00E-01										
Euro III	0.00%	2.80E-03	1.29E+00	4.21E+01	1.29E+00										
Euro II	0.00%	2.80E-03	1.43E+00	4.06E+01	1.43E+00										
Euro I	0.00%	2.80E-03	5.53E+00	3.26E+01	5.53E+00										
Pre-Euro	0.00%	2.80E-03	6.62E+00	4.06E+01	6.62E+00										

HGV7 (Diesel)

NO/NO_2 Ratio = 2.17 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor [17]	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [15]	PM (g/hr) [16]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	83.80%	5.90E-03	1.00E-02	1.75E+00	1.00E-02	0.9	1.3	3.540E-01	2.423E-01	1.117E-01	4.794E-04	6.560E-02	4.489E-02	2.070E-02	4.794E-04
Euro V	16.20%	5.90E-03	1.00E-01	1.17E+01	1.00E-01										
Euro IV	0.00%	5.90E-03	2.00E-01	7.51E+00	2.00E-01										

HGV8 (Diesel)

NO/NO_2 Ratio = 2.59 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor [17]	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [15]	PM (g/hr) [16]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	87.81%	3.70E-03	1.00E-02	1.75E+00	1.00E-02	1.0	1.3	3.631E-01	2.621E-01	1.010E-01	4.543E-04	6.421E-02	4.635E-02	1.787E-02	4.543E-04
Euro V	12.19%	2.30E-02	1.00E-01	1.17E+01	1.00E-01										
Euro IV	0.00%	1.44E-02	2.00E-01	7.51E+00	2.00E-01										
Euro III	0.00%	1.44E-02	1.29E+00	4.21E+01	1.29E+00										
Euro II	0.00%	1.44E-02	1.43E+00	4.06E+01	1.43E+00										
Euro I	0.00%	1.44E-02	5.53E+00	3.26E+01	5.53E+00										
Pre-Euro	0.00%	1.44E-02	6.62E+00	4.06E+01	6.62E+00										

PLB (Diesel)

NO/NO_2 Ratio = 2.57 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [11]	PM (g/hr) [12]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	89.73%	1.00E-03	2.00E-02	1.28E+00	2.00E-02	-	1.3	6.000E-02	4.320E-02	1.680E-02	4.333E-04	3.290E-02	2.369E-02	9.210E-03	4.333E-04
Euro V	10.27%	1.00E-03	2.00E-02	3.60E+00	2.00E-02										
Euro IV	0.00%	1.00E-03	1.60E-01	3.62E+00	1.60E-01										
Euro III	0.00%	1.00E-03	1.00E-01	4.12E+00	1.00E-01										
Euro II	0.00%	1.00E-03	5.40E-01	5.53E+00	5.40E-01										
Euro I	0.00%	1.00E-03	6.30E-01	5.88E+00	6.30E-01										
Pre-Euro	0.00%	1.00E-03	1.59E+00	6.52E+00	1.59E+00										

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Calculation of Iding Emission Factor

PLB (LPG)

NO/NO_2 Ratio = 199.38 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2]	PM (g/hr) [3]	NOx (g/hr) [10]	PM (g/hr) [10]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro V	95.68%	3.90E-03	2.00E-02	1.40E+01	2.00E-02	-	1.3	2.412E-01	2.400E-01	1.204E-03	5.348E-04	3.136E-01	3.120E-01	1.565E-03	5.348E-04
Euro IV	2.05%	3.90E-03	1.60E-01	1.40E+01	1.60E-01										
Euro III	2.27%	9.20E-03	1.00E-01	3.31E+01	1.00E-01										

FBDD (Diesel)

NO/NO_2 Ratio = 12.68 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor [17]	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [15]	PM (g/hr) [16]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	43.13%	2.25E-02	1.00E-02	1.75E+00	1.00E-02	1.2	1.3	5.820E+00	5.395E+00	4.256E-01	1.591E-03	1.928E-01	1.787E-01	1.410E-02	1.591E-03
Euro V	56.87%	1.54E-01	1.00E-01	1.17E+01	1.00E-01										
Euro IV	0.00%	1.54E-01	2.00E-01	7.51E+00	2.00E-01										
Euro III	0.00%	7.37E-02	1.29E+00	4.21E+01	1.29E+00										
Euro II	0.00%	7.37E-02	1.43E+00	4.06E+01	1.43E+00										
Euro I	0.00%	7.37E-02	5.53E+00	3.26E+01	5.53E+00										
Pre-Euro	0.00%	7.37E-02	6.62E+00	4.06E+01	6.62E+00										

HGV9 (Diesel)

NO/NO_2 Ratio = 2.82 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor [17]	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [15]	PM (g/hr) [16]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	84.27%	3.70E-03	1.00E-02	1.75E+00	1.00E-02	1.2	1.3	4.042E-01	2.984E-01	1.058E-01	6.282E-04	8.625E-02	6.368E-02	2.257E-02	6.282E-04
Euro V	15.73%	2.30E-02	1.00E-01	1.17E+01	1.00E-01										
Euro IV	0.00%	1.44E-02	2.00E-01	7.51E+00	2.00E-01										
Euro III	0.00%	1.44E-02	1.29E+00	4.21E+01	1.29E+00										
Euro II	0.00%	1.44E-02	1.43E+00	4.06E+01	1.43E+00										
Euro I	0.00%	1.44E-02	5.53E+00	3.26E+01	5.53E+00										
Pre-Euro	0.00%	1.44E-02	6.62E+00	4.06E+01	6.62E+00										

Remarks

[1] NO/NO2 ratio, at the respective running speed, was calculated based on emisison factors extracted from EMFAC-HK.
[2] NOx cold idling emission factors was referenced to Calculation of Start Emissions in Air Quality Impact Assessment published by EPD.
[3] Due to the lack of information, cold idling emission factor was referenced to the corresponding hot idling emission factor.
[4] For Euro groups with no emission factor provided in the reference, idling emission factor was referenced to the next Euro group with available emission factor.
[5] Reference made to Table 36 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[6] Reference made to Table 37 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[7] Reference made to Table 33 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[8] Reference made to Table 34 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[9] Due to the lack of information and similarity in taxi and PC , cold and hot idling emission factors were referenced to corresponding hot idling emission factor of PC (petrol).
[10] Due to the lack of information, hot idling emission factor was referenced to the corresponding cold idling emission factor.
[11] Reference made to Table 42 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[12] Reference made to Table 43 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[13] Reference made to Table 39 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[14] Reference made to Table 40 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[15] Reference made to Table 45 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[16] Reference made to Table 46 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[17] Reference made to Table 27 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association by assuming LGV6 and HGV7 as 15 ton, HGV8 as 23 ton, FBDD and HGV9 as 32 ton.
[18] Reference made to the approved Liantang / Heung Yuen Wai Boundary Control Point and Associated Works EIA Report.
[19] All TSP (PM) emissions were assumed for RSP and FSP as a conservative approach.
[20] The population of PC is adjusted with E-PC.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Lok Ma Chau Station PTI (FBDD_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	6.186E-01	1.114E+00	1.485E+00	2.103E+00	2.598E+00	3.464E+00	5.073E+00	6.310E+00	9.279E+00	1.212E+01	1.361E+01	1.608E+01	1.769E+01	1.856E+01	1.905E+01	1.955E+01	1.980E+01	1.980E+01
NO_2	5.540E-02	9.960E-02	1.329E-01	1.882E-01	2.325E-01	3.100E-01	4.540E-01	5.647E-01	8.304E-01	1.085E+00	1.218E+00	1.439E+00	1.583E+00	1.661E+00	1.705E+00	1.749E+00	1.772E+00	1.772E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of FBDD**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.969E+00	2.658E-01	0.000E+00	0.000E+00
8.908E+00	7.974E-01	0.000E+00	0.000E+00
8.908E+00	7.974E-01	0.000E+00	0.000E+00
4.454E+00	3.987E-01	0.000E+00	0.000E+00
2.969E+00	2.658E-01	0.000E+00	0.000E+00
2.969E+00	2.658E-01	0.000E+00	0.000E+00
2.969E+00	2.658E-01	0.000E+00	0.000E+00
2.969E+00	2.658E-01	0.000E+00	0.000E+00
2.969E+00	2.658E-01	0.000E+00	0.000E+00
4.454E+00	3.987E-01	0.000E+00	0.000E+00
4.454E+00	3.987E-01	0.000E+00	0.000E+00
5.938E+00	5.316E-01	0.000E+00	0.000E+00
8.908E+00	7.974E-01	0.000E+00	0.000E+00
5.938E+00	5.316E-01	0.000E+00	0.000E+00
2.969E+00	2.658E-01	0.000E+00	0.000E+00
2.969E+00	2.658E-01	0.000E+00	0.000E+00
1.485E+00	1.329E-01	0.000E+00	0.000E+00
1.485E+00	1.329E-01	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the PTI and operators' published schedules, while sitting time were obtained based on on-site observations at PTI.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Lok Ma Chau Station PTI (FBDD_Diesel)

Cold Idling Emission

Idling Time for Terminating Buses =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	FBDD (Diesel)									FBDD (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	7.147E-01	5.638E-02	6.363E-03	6.363E-03
0700 - 0800	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	2.144E+00	1.692E-01	1.909E-02	1.909E-02
0800 - 0900	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	2.144E+00	1.692E-01	1.909E-02	1.909E-02
0900 - 1000	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	1.072E+00	8.458E-02	9.545E-03	9.545E-03
1000 - 1100	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	7.147E-01	5.638E-02	6.363E-03	6.363E-03
1100 - 1200	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	7.147E-01	5.638E-02	6.363E-03	6.363E-03
1200 - 1300	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	7.147E-01	5.638E-02	6.363E-03	6.363E-03
1300 - 1400	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	7.147E-01	5.638E-02	6.363E-03	6.363E-03
1400 - 1500	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	7.147E-01	5.638E-02	6.363E-03	6.363E-03
1500 - 1600	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	1.072E+00	8.458E-02	9.545E-03	9.545E-03
1600 - 1700	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	1.072E+00	8.458E-02	9.545E-03	9.545E-03
1700 - 1800	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	1.429E+00	1.128E-01	1.273E-02	1.273E-02
1800 - 1900	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	2.144E+00	1.692E-01	1.909E-02	1.909E-02
1900 - 2000	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	1.429E+00	1.128E-01	1.273E-02	1.273E-02
2000 - 2100	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	7.147E-01	5.638E-02	6.363E-03	6.363E-03
2100 - 2200	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	7.147E-01	5.638E-02	6.363E-03	6.363E-03
2200 - 2300	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	3.574E-01	2.819E-02	3.182E-03	3.182E-03
2300 - 2400	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	3.574E-01	2.819E-02	3.182E-03	3.182E-03

Average Distance from Starting Place to PTI Egress =	50	m
Average Spread Distance outside PTI =	650	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within PTI (g)				Adjusted Starting Emission Outside PTI (g)				Starting Emission Rate Outside PTI (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	7.147E-01	5.638E-02	6.363E-03	6.363E-03	3.574E-01	2.819E-02	3.182E-03	3.182E-03	1.866E-01	1.697E-02	0.000E+00	0.000E+00	2.425E+00	2.206E-01	0.000E+00	0.000E+00	6.737E-04	6.129E-05	0.000E+00	0.000E+00
0700 - 0800	2.144E+00	1.692E-01	1.909E-02	1.909E-02	1.072E+00	8.458E-02	9.545E-03	9.545E-03	5.597E-01	5.092E-02	0.000E+00	0.000E+00	7.276E+00	6.619E-01	0.000E+00	0.000E+00	2.021E-03	1.839E-04	0.000E+00	0.000E+00
0800 - 0900	2.144E+00	1.692E-01	1.909E-02	1.909E-02	1.072E+00	8.458E-02	9.545E-03	9.545E-03	5.597E-01	5.092E-02	0.000E+00	0.000E+00	7.276E+00	6.619E-01	0.000E+00	0.000E+00	2.021E-03	1.839E-04	0.000E+00	0.000E+00
0900 - 1000	1.072E+00	8.458E-02	9.545E-03	9.545E-03	5.360E-01	4.229E-02	4.772E-03	4.772E-03	2.798E-01	2.546E-02	0.000E+00	0.000E+00	3.638E+00	3.310E-01	0.000E+00	0.000E+00	1.011E-03	9.193E-05	0.000E+00	0.000E+00
1000 - 1100	7.147E-01	5.638E-02	6.363E-03	6.363E-03	3.574E-01	2.819E-02	3.182E-03	3.182E-03	1.866E-01	1.697E-02	0.000E+00	0.000E+00	2.425E+00	2.206E-01	0.000E+00	0.000E+00	6.737E-04	6.129E-05	0.000E+00	0.000E+00
1100 - 1200	7.147E-01	5.638E-02	6.363E-03	6.363E-03	3.574E-01	2.819E-02	3.182E-03	3.182E-03	1.866E-01	1.697E-02	0.000E+00	0.000E+00	2.425E+00	2.206E-01	0.000E+00	0.000E+00	6.737E-04	6.129E-05	0.000E+00	0.000E+00
1200 - 1300	7.147E-01	5.638E-02	6.363E-03	6.363E-03	3.574E-01	2.819E-02	3.182E-03	3.182E-03	1.866E-01	1.697E-02	0.000E+00	0.000E+00	2.425E+00	2.206E-01	0.000E+00	0.000E+00	6.737E-04	6.129E-05	0.000E+00	0.000E+00
1300 - 1400	7.147E-01	5.638E-02	6.363E-03	6.363E-03	3.574E-01	2.819E-02	3.182E-03	3.182E-03	1.866E-01	1.697E-02	0.000E+00	0.000E+00	2.425E+00	2.206E-01	0.000E+00	0.000E+00	6.737E-04	6.129E-05	0.000E+00	0.000E+00
1400 - 1500	7.147E-01	5.638E-02	6.363E-03	6.363E-03	3.574E-01	2.819E-02	3.182E-03	3.182E-03	1.866E-01	1.697E-02	0.000E+00	0.000E+00	2.425E+00	2.206E-01	0.000E+00	0.000E+00	6.737E-04	6.129E-05	0.000E+00	0.000E+00
1500 - 1600	1.072E+00	8.458E-02	9.545E-03	9.545E-03	5.360E-01	4.229E-02	4.772E-03	4.772E-03	2.798E-01	2.546E-02	0.000E+00	0.000E+00	3.638E+00	3.310E-01	0.000E+00	0.000E+00	1.011E-03	9.193E-05	0.000E+00	0.000E+00
1600 - 1700	1.072E+00	8.458E-02	9.545E-03	9.545E-03	5.360E-01	4.229E-02	4.772E-03	4.772E-03	2.798E-01	2.546E-02	0.000E+00	0.000E+00	3.638E+00	3.310E-01	0.000E+00	0.000E+00	1.011E-03	9.193E-05	0.000E+00	0.000E+00
1700 - 1800	1.429E+00	1.128E-01	1.273E-02	1.273E-02	7.147E-01	5.638E-02	6.363E-03	6.363E-03	3.731E-01	3.394E-02	0.000E+00	0.000E+00	4.851E+00	4.413E-01	0.000E+00	0.000E+00	1.347E-03	1.226E-04	0.000E+00	0.000E+00
1800 - 1900	2.144E+00	1.692E-01	1.909E-02	1.909E-02	1.072E+00	8.458E-02	9.545E-03	9.545E-03	5.597E-01	5.092E-02	0.000E+00	0.000E+00	7.276E+00	6.619E-01	0.000E+00	0.000E+00	2.021E-03	1.839E-04	0.000E+00	0.000E+00
1900 - 2000	1.429E+00	1.128E-01	1.273E-02	1.273E-02	7.147E-01	5.638E-02	6.363E-03	6.363E-03	3.731E-01	3.394E-02	0.000E+00	0.000E+00	4.851E+00	4.413E-01	0.000E+00	0.000E+00	1.347E-03	1.226E-04	0.000E+00	0.000E+00
2000 - 2100	7.147E-01	5.638E-02	6.363E-03	6.363E-03	3.574E-01	2.819E-02	3.182E-03	3.182E-03	1.866E-01	1.697E-02	0.000E+00	0.000E+00	2.425E+00	2.206E-01	0.000E+00	0.000E+00	6.737E-04	6.129E-05	0.000E+00	0.000E+00
2100 - 2200	7.147E-01	5.638E-02	6.363E-03	6.363E-03	3.574E-01	2.819E-02	3.182E-03	3.182E-03	1.866E-01	1.697E-02	0.000E+00	0.000E+00	2.425E+00	2.206E-01	0.000E+00	0.000E+00	6.737E-04	6.129E-05	0.000E+00	0.000E+00
2200 - 2300	3.574E-01	2.819E-02	3.182E-03	3.182E-03	1.787E-01	1.410E-02	1.591E-03	1.591E-03	9.328E-02	8.486E-03	0.000E+00	0.000E+00	1.213E+00	1.103E-01	0.000E+00	0.000E+00	3.368E-04	3.064E-05	0.000E+00	0.000E+00
2300 - 2400	3.574E-01	2.819E-02	3.182E-03	3.182E-03	1.787E-01	1.410E-02	1.591E-03	1.591E-03	9.328E-02	8.486E-03	0.000E+00	0.000E+00	1.213E+00	1.103E-01	0.000E+00	0.000E+00	3.368E-04	3.064E-05	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Lok Ma Chau Station PTI (FBDD)

Running Emission

Average Travelling Distance within PTI =	100	m
Average Travelling Speed =	10	km/h

Hour	FBDD								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within PTI (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0	9.613E+00	7.584E-01	3.463E-01	3.186E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0	9.613E+00	7.584E-01	3.463E-01	3.186E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0	9.613E+00	7.584E-01	3.463E-01	3.186E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0	9.613E+00	7.584E-01	3.463E-01	3.186E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0	9.613E+00	7.584E-01	3.463E-01	3.186E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0	9.613E+00	7.584E-01	3.463E-01	3.186E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2	9.613E+00	7.584E-01	3.463E-01	3.186E-01	1.923E+00	1.517E-01	6.926E-02	6.372E-02
0700 - 0800	6	9.613E+00	7.584E-01	3.463E-01	3.186E-01	5.768E+00	4.550E-01	2.078E-01	1.912E-01
0800 - 0900	6	9.613E+00	7.584E-01	3.463E-01	3.186E-01	5.768E+00	4.550E-01	2.078E-01	1.912E-01
0900 - 1000	3	9.613E+00	7.584E-01	3.463E-01	3.186E-01	2.884E+00	2.275E-01	1.039E-01	9.558E-02
1000 - 1100	2	9.613E+00	7.584E-01	3.463E-01	3.186E-01	1.923E+00	1.517E-01	6.926E-02	6.372E-02
1100 - 1200	2	9.613E+00	7.584E-01	3.463E-01	3.186E-01	1.923E+00	1.517E-01	6.926E-02	6.372E-02
1200 - 1300	2	9.613E+00	7.584E-01	3.463E-01	3.186E-01	1.923E+00	1.517E-01	6.926E-02	6.372E-02
1300 - 1400	2	9.613E+00	7.584E-01	3.463E-01	3.186E-01	1.923E+00	1.517E-01	6.926E-02	6.372E-02
1400 - 1500	2	9.613E+00	7.584E-01	3.463E-01	3.186E-01	1.923E+00	1.517E-01	6.926E-02	6.372E-02
1500 - 1600	3	9.613E+00	7.584E-01	3.463E-01	3.186E-01	2.884E+00	2.275E-01	1.039E-01	9.558E-02
1600 - 1700	3	9.613E+00	7.584E-01	3.463E-01	3.186E-01	2.884E+00	2.275E-01	1.039E-01	9.558E-02
1700 - 1800	4	9.613E+00	7.584E-01	3.463E-01	3.186E-01	3.845E+00	3.034E-01	1.385E-01	1.274E-01
1800 - 1900	6	9.613E+00	7.584E-01	3.463E-01	3.186E-01	5.768E+00	4.550E-01	2.078E-01	1.912E-01
1900 - 2000	4	9.613E+00	7.584E-01	3.463E-01	3.186E-01	3.845E+00	3.034E-01	1.385E-01	1.274E-01
2000 - 2100	2	9.613E+00	7.584E-01	3.463E-01	3.186E-01	1.923E+00	1.517E-01	6.926E-02	6.372E-02
2100 - 2200	2	9.613E+00	7.584E-01	3.463E-01	3.186E-01	1.923E+00	1.517E-01	6.926E-02	6.372E-02
2200 - 2300	1	9.613E+00	7.584E-01	3.463E-01	3.186E-01	9.613E-01	7.584E-02	3.463E-02	3.186E-02
2300 - 2400	1	9.613E+00	7.584E-01	3.463E-01	3.186E-01	9.613E-01	7.584E-02	3.463E-02	3.186E-02

Idling Emission

Idling Time for Non-terminating Buses =	1	min

Hour	FBDD								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Lok Ma Chau Station PTI (FBDD)

Total Hourly Emission

Hour	Emission Within PTI							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.824E+00	2.250E-01	7.562E-02	7.008E-02	7.844E-04	6.251E-05	2.101E-05	1.947E-05
0700 - 0800	8.472E+00	6.751E-01	2.269E-01	2.102E-01	2.353E-03	1.875E-04	6.302E-05	5.840E-05
0800 - 0900	8.472E+00	6.751E-01	2.269E-01	2.102E-01	2.353E-03	1.875E-04	6.302E-05	5.840E-05
0900 - 1000	4.236E+00	3.376E-01	1.134E-01	1.051E-01	1.177E-03	9.376E-05	3.151E-05	2.920E-05
1000 - 1100	2.824E+00	2.250E-01	7.562E-02	7.008E-02	7.844E-04	6.251E-05	2.101E-05	1.947E-05
1100 - 1200	2.824E+00	2.250E-01	7.562E-02	7.008E-02	7.844E-04	6.251E-05	2.101E-05	1.947E-05
1200 - 1300	2.824E+00	2.250E-01	7.562E-02	7.008E-02	7.844E-04	6.251E-05	2.101E-05	1.947E-05
1300 - 1400	2.824E+00	2.250E-01	7.562E-02	7.008E-02	7.844E-04	6.251E-05	2.101E-05	1.947E-05
1400 - 1500	2.824E+00	2.250E-01	7.562E-02	7.008E-02	7.844E-04	6.251E-05	2.101E-05	1.947E-05
1500 - 1600	4.236E+00	3.376E-01	1.134E-01	1.051E-01	1.177E-03	9.376E-05	3.151E-05	2.920E-05
1600 - 1700	4.236E+00	3.376E-01	1.134E-01	1.051E-01	1.177E-03	9.376E-05	3.151E-05	2.920E-05
1700 - 1800	5.648E+00	4.501E-01	1.512E-01	1.402E-01	1.569E-03	1.250E-04	4.201E-05	3.894E-05
1800 - 1900	8.472E+00	6.751E-01	2.269E-01	2.102E-01	2.353E-03	1.875E-04	6.302E-05	5.840E-05
1900 - 2000	5.648E+00	4.501E-01	1.512E-01	1.402E-01	1.569E-03	1.250E-04	4.201E-05	3.894E-05
2000 - 2100	2.824E+00	2.250E-01	7.562E-02	7.008E-02	7.844E-04	6.251E-05	2.101E-05	1.947E-05
2100 - 2200	2.824E+00	2.250E-01	7.562E-02	7.008E-02	7.844E-04	6.251E-05	2.101E-05	1.947E-05
2200 - 2300	1.412E+00	1.125E-01	3.781E-02	3.504E-02	3.922E-04	3.125E-05	1.050E-05	9.734E-06
2300 - 2400	1.412E+00	1.125E-01	3.781E-02	3.504E-02	3.922E-04	3.125E-05	1.050E-05	9.734E-06

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Lok Ma Chau Station PTI (PLB_Diesel)

Starting Emission

No. of PLB(Diesel) to No. of PLB (LPG) Ratio =		3.92

	Starting Emission Factor (g/trip)																	
NO	4.430E-02	7.960E-02	1.062E-01	1.505E-01	1.859E-01	2.478E-01	3.629E-01	4.515E-01	6.638E-01	8.674E-01	9.737E-01	1.151E+00	1.266E+00	1.328E+00	1.363E+00	1.399E+00	1.416E+00	1.416E+00
NO_2	1.720E-02	3.100E-02	4.130E-02	5.850E-02	7.230E-02	9.640E-02	1.411E-01	1.755E-01	2.582E-01	3.373E-01	3.786E-01	4.475E-01	4.922E-01	5.163E-01	5.301E-01	5.439E-01	5.507E-01	5.507E-01
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of PLB_Diesel**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	2.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.539E-01	9.872E-02	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	5.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.923E-01	2.303E-01	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	6.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.769E-01	2.633E-01	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.385E-01	1.316E-01	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	2.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.539E-01	9.872E-02	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	2.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.539E-01	9.872E-02	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	2.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.539E-01	9.872E-02	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	2.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.539E-01	9.872E-02	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	2.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.539E-01	9.872E-02	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.385E-01	1.316E-01	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.385E-01	1.316E-01	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	3.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.231E-01	1.645E-01	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	6.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.769E-01	2.633E-01	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	3.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.231E-01	1.645E-01	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	2.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.539E-01	9.872E-02	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	2.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.539E-01	9.872E-02	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.692E-01	6.581E-02	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.462E-02	3.291E-02	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the PTI and operators' published schedules, while sitting time were obtained based on on-site observations at PTI.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Lok Ma Chau Station PTI (PLB_Diesel)

Cold Idling Emission

Idling Time for Terminating PLB =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	PLB (Diesel)									PLB (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.39	2.369E-02	9.210E-03	4.333E-04	4.333E-04	1.132E-01	4.403E-02	2.072E-03	2.072E-03
0700 - 0800	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.58	2.369E-02	9.210E-03	4.333E-04	4.333E-04	2.642E-01	1.027E-01	4.834E-03	4.834E-03
0800 - 0900	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.37	2.369E-02	9.210E-03	4.333E-04	4.333E-04	3.020E-01	1.174E-01	5.524E-03	5.524E-03
0900 - 1000	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.19	2.369E-02	9.210E-03	4.333E-04	4.333E-04	1.510E-01	5.870E-02	2.762E-03	2.762E-03
1000 - 1100	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.39	2.369E-02	9.210E-03	4.333E-04	4.333E-04	1.132E-01	4.403E-02	2.072E-03	2.072E-03
1100 - 1200	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.39	2.369E-02	9.210E-03	4.333E-04	4.333E-04	1.132E-01	4.403E-02	2.072E-03	2.072E-03
1200 - 1300	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.39	2.369E-02	9.210E-03	4.333E-04	4.333E-04	1.132E-01	4.403E-02	2.072E-03	2.072E-03
1300 - 1400	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.39	2.369E-02	9.210E-03	4.333E-04	4.333E-04	1.132E-01	4.403E-02	2.072E-03	2.072E-03
1400 - 1500	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.39	2.369E-02	9.210E-03	4.333E-04	4.333E-04	1.132E-01	4.403E-02	2.072E-03	2.072E-03
1500 - 1600	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.19	2.369E-02	9.210E-03	4.333E-04	4.333E-04	1.510E-01	5.870E-02	2.762E-03	2.762E-03
1600 - 1700	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.19	2.369E-02	9.210E-03	4.333E-04	4.333E-04	1.510E-01	5.870E-02	2.762E-03	2.762E-03
1700 - 1800	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.98	2.369E-02	9.210E-03	4.333E-04	4.333E-04	1.887E-01	7.338E-02	3.453E-03	3.453E-03
1800 - 1900	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.37	2.369E-02	9.210E-03	4.333E-04	4.333E-04	3.020E-01	1.174E-01	5.524E-03	5.524E-03
1900 - 2000	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.98	2.369E-02	9.210E-03	4.333E-04	4.333E-04	1.887E-01	7.338E-02	3.453E-03	3.453E-03
2000 - 2100	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.39	2.369E-02	9.210E-03	4.333E-04	4.333E-04	1.132E-01	4.403E-02	2.072E-03	2.072E-03
2100 - 2200	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.39	2.369E-02	9.210E-03	4.333E-04	4.333E-04	1.132E-01	4.403E-02	2.072E-03	2.072E-03
2200 - 2300	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.59	2.369E-02	9.210E-03	4.333E-04	4.333E-04	7.549E-02	2.935E-02	1.381E-03	1.381E-03
2300 - 2400	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.80	2.369E-02	9.210E-03	4.333E-04	4.333E-04	3.775E-02	1.468E-02	6.905E-04	6.905E-04

Average Distance from Starting Place to PTI Egress =	50.0	m
Average Spread Distance outside PTI =	650.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within PTI (g)				Adjusted Starting Emission Outside PTI (g)				Starting Emission Rate Outside PTI (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.132E-01	4.403E-02	2.072E-03	2.072E-03	5.662E-02	2.201E-02	1.036E-03	1.036E-03	1.409E-02	5.479E-03	0.000E+00	0.000E+00	1.831E-01	7.123E-02	0.000E+00	0.000E+00	5.087E-05	1.979E-05	0.000E+00	0.000E+00
0700 - 0800	2.642E-01	1.027E-01	4.834E-03	4.834E-03	1.321E-01	5.137E-02	2.417E-03	2.417E-03	3.287E-02	1.278E-02	0.000E+00	0.000E+00	4.273E-01	1.662E-01	0.000E+00	0.000E+00	1.187E-04	4.617E-05	0.000E+00	0.000E+00
0800 - 0900	3.020E-01	1.174E-01	5.524E-03	5.524E-03	1.510E-01	5.870E-02	2.762E-03	2.762E-03	3.757E-02	1.461E-02	0.000E+00	0.000E+00	4.884E-01	1.899E-01	0.000E+00	0.000E+00	1.357E-04	5.276E-05	0.000E+00	0.000E+00
0900 - 1000	1.510E-01	5.870E-02	2.762E-03	2.762E-03	7.549E-02	2.935E-02	1.381E-03	1.381E-03	1.878E-02	7.305E-03	0.000E+00	0.000E+00	2.442E-01	9.497E-02	0.000E+00	0.000E+00	6.783E-05	2.638E-05	0.000E+00	0.000E+00
1000 - 1100	1.132E-01	4.403E-02	2.072E-03	2.072E-03	5.662E-02	2.201E-02	1.036E-03	1.036E-03	1.409E-02	5.479E-03	0.000E+00	0.000E+00	1.831E-01	7.123E-02	0.000E+00	0.000E+00	5.087E-05	1.979E-05	0.000E+00	0.000E+00
1100 - 1200	1.132E-01	4.403E-02	2.072E-03	2.072E-03	5.662E-02	2.201E-02	1.036E-03	1.036E-03	1.409E-02	5.479E-03	0.000E+00	0.000E+00	1.831E-01	7.123E-02	0.000E+00	0.000E+00	5.087E-05	1.979E-05	0.000E+00	0.000E+00
1200 - 1300	1.132E-01	4.403E-02	2.072E-03	2.072E-03	5.662E-02	2.201E-02	1.036E-03	1.036E-03	1.409E-02	5.479E-03	0.000E+00	0.000E+00	1.831E-01	7.123E-02	0.000E+00	0.000E+00	5.087E-05	1.979E-05	0.000E+00	0.000E+00
1300 - 1400	1.132E-01	4.403E-02	2.072E-03	2.072E-03	5.662E-02	2.201E-02	1.036E-03	1.036E-03	1.409E-02	5.479E-03	0.000E+00	0.000E+00	1.831E-01	7.123E-02	0.000E+00	0.000E+00	5.087E-05	1.979E-05	0.000E+00	0.000E+00
1400 - 1500	1.132E-01	4.403E-02	2.072E-03	2.072E-03	5.662E-02	2.201E-02	1.036E-03	1.036E-03	1.409E-02	5.479E-03	0.000E+00	0.000E+00	1.831E-01	7.123E-02	0.000E+00	0.000E+00	5.087E-05	1.979E-05	0.000E+00	0.000E+00
1500 - 1600	1.510E-01	5.870E-02	2.762E-03	2.762E-03	7.549E-02	2.935E-02	1.381E-03	1.381E-03	1.878E-02	7.305E-03	0.000E+00	0.000E+00	2.442E-01	9.497E-02	0.000E+00	0.000E+00	6.783E-05	2.638E-05	0.000E+00	0.000E+00
1600 - 1700	1.510E-01	5.870E-02	2.762E-03	2.762E-03	7.549E-02	2.935E-02	1.381E-03	1.381E-03	1.878E-02	7.305E-03	0.000E+00	0.000E+00	2.442E-01	9.497E-02	0.000E+00	0.000E+00	6.783E-05	2.638E-05	0.000E+00	0.000E+00
1700 - 1800	1.887E-01	7.338E-02	3.453E-03	3.453E-03	9.436E-02	3.669E-02	1.726E-03	1.726E-03	2.348E-02	9.132E-03	0.000E+00	0.000E+00	3.052E-01	1.187E-01	0.000E+00	0.000E+00	8.479E-05	3.298E-05	0.000E+00	0.000E+00
1800 - 1900	3.020E-01	1.174E-01	5.524E-03	5.524E-03	1.510E-01	5.870E-02	2.762E-03	2.762E-03	3.757E-02	1.461E-02	0.000E+00	0.000E+00	4.884E-01	1.899E-01	0.000E+00	0.000E+00	1.357E-04	5.276E-05	0.000E+00	0.000E+00
1900 - 2000	1.887E-01	7.338E-02	3.453E-03	3.453E-03	9.436E-02	3.669E-02	1.726E-03	1.726E-03	2.348E-02	9.132E-03	0.000E+00	0.000E+00	3.052E-01	1.187E-01	0.000E+00	0.000E+00	8.479E-05	3.298E-05	0.000E+00	0.000E+00
2000 - 2100	1.132E-01	4.403E-02	2.072E-03	2.072E-03	5.662E-02	2.201E-02	1.036E-03	1.036E-03	1.409E-02	5.479E-03	0.000E+00	0.000E+00	1.831E-01	7.123E-02	0.000E+00	0.000E+00	5.087E-05	1.979E-05	0.000E+00	0.000E+00
2100 - 2200	1.132E-01	4.403E-02	2.072E-03	2.072E-03	5.662E-02	2.201E-02	1.036E-03	1.036E-03	1.409E-02	5.479E-03	0.000E+00	0.000E+00	1.831E-01	7.123E-02	0.000E+00	0.000E+00	5.087E-05	1.979E-05	0.000E+00	0.000E+00
2200 - 2300	7.549E-02	2.935E-02	1.381E-03	1.381E-03	3.775E-02	1.468E-02	6.905E-04	6.905E-04	9.392E-03	3.653E-03	0.000E+00	0.000E+00	1.221E-01	4.749E-02	0.000E+00	0.000E+00	3.392E-05	1.319E-05	0.000E+00	0.000E+00
2300 - 2400	3.775E-02	1.468E-02	6.905E-04	6.905E-04	1.887E-02	7.338E-03	3.453E-04	3.453E-04	4.696E-03	1.826E-03	0.000E+00	0.000E+00	6.105E-02	2.374E-02	0.000E+00	0.000E+00	1.696E-05	6.595E-06	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Lok Ma Chau Station PTI (PLB_LPG)

Starting Emission

No. of PLB(Diesel) to No. of PLB (LPG) Ratio =		3.92

	Starting Emission Factor (g/trip)																	
NO	1.930E+00	2.908E+00	4.626E+00	6.026E+00	7.108E+00	7.871E+00	8.317E+00	8.623E+00	8.592E+00	8.543E+00	8.478E+00	8.396E+00	8.298E+00	8.182E+00	8.050E+00	7.901E+00	7.736E+00	7.554E+00
NO_2	9.700E-03	1.460E-02	2.330E-02	3.030E-02	3.570E-02	3.960E-02	4.180E-02	4.330E-02	4.320E-02	4.290E-02	4.260E-02	4.220E-02	4.170E-02	4.110E-02	4.050E-02	3.970E-02	3.890E-02	3.800E-02
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of PLB_LPG**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	**Total Starting Emission (g)**			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.820E+00	1.421E-02	0.000E+00	0.000E+00
0700 - 0800	6.581E+00	3.315E-02	0.000E+00	0.000E+00
0800 - 0900	7.521E+00	3.788E-02	0.000E+00	0.000E+00
0900 - 1000	3.761E+00	1.894E-02	0.000E+00	0.000E+00
1000 - 1100	2.820E+00	1.421E-02	0.000E+00	0.000E+00
1100 - 1200	2.820E+00	1.421E-02	0.000E+00	0.000E+00
1200 - 1300	2.820E+00	1.421E-02	0.000E+00	0.000E+00
1300 - 1400	2.820E+00	1.421E-02	0.000E+00	0.000E+00
1400 - 1500	2.820E+00	1.421E-02	0.000E+00	0.000E+00
1500 - 1600	3.761E+00	1.894E-02	0.000E+00	0.000E+00
1600 - 1700	3.761E+00	1.894E-02	0.000E+00	0.000E+00
1700 - 1800	4.701E+00	2.368E-02	0.000E+00	0.000E+00
1800 - 1900	7.521E+00	3.788E-02	0.000E+00	0.000E+00
1900 - 2000	4.701E+00	2.368E-02	0.000E+00	0.000E+00
2000 - 2100	2.820E+00	1.421E-02	0.000E+00	0.000E+00
2100 - 2200	2.820E+00	1.421E-02	0.000E+00	0.000E+00
2200 - 2300	1.880E+00	9.470E-03	0.000E+00	0.000E+00
2300 - 2400	9.401E-01	4.735E-03	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the PTI and operators' published schedules, while sitting time were obtained based on on-site observations at PTI.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Lok Ma Chau Station PTI (PLB_LPG)

Cold Idling Emission

Idling Time for Terminating PLB =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	PLB (LPG)									PLB (LPG)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.61	3.120E-01	1.565E-03	5.348E-04	5.348E-04	3.805E-01	1.908E-03	6.521E-04	6.521E-04
0700 - 0800	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.42	3.120E-01	1.565E-03	5.348E-04	5.348E-04	8.877E-01	4.452E-03	1.522E-03	1.522E-03
0800 - 0900	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.63	3.120E-01	1.565E-03	5.348E-04	5.348E-04	1.015E+00	5.089E-03	1.739E-03	1.739E-03
0900 - 1000	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.81	3.120E-01	1.565E-03	5.348E-04	5.348E-04	5.073E-01	2.544E-03	8.695E-04	8.695E-04
1000 - 1100	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.61	3.120E-01	1.565E-03	5.348E-04	5.348E-04	3.805E-01	1.908E-03	6.521E-04	6.521E-04
1100 - 1200	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.61	3.120E-01	1.565E-03	5.348E-04	5.348E-04	3.805E-01	1.908E-03	6.521E-04	6.521E-04
1200 - 1300	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.61	3.120E-01	1.565E-03	5.348E-04	5.348E-04	3.805E-01	1.908E-03	6.521E-04	6.521E-04
1300 - 1400	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.61	3.120E-01	1.565E-03	5.348E-04	5.348E-04	3.805E-01	1.908E-03	6.521E-04	6.521E-04
1400 - 1500	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.61	3.120E-01	1.565E-03	5.348E-04	5.348E-04	3.805E-01	1.908E-03	6.521E-04	6.521E-04
1500 - 1600	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.81	3.120E-01	1.565E-03	5.348E-04	5.348E-04	5.073E-01	2.544E-03	8.695E-04	8.695E-04
1600 - 1700	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.81	3.120E-01	1.565E-03	5.348E-04	5.348E-04	5.073E-01	2.544E-03	8.695E-04	8.695E-04
1700 - 1800	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.02	3.120E-01	1.565E-03	5.348E-04	5.348E-04	6.341E-01	3.180E-03	1.087E-03	1.087E-03
1800 - 1900	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.63	3.120E-01	1.565E-03	5.348E-04	5.348E-04	1.015E+00	5.089E-03	1.739E-03	1.739E-03
1900 - 2000	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.02	3.120E-01	1.565E-03	5.348E-04	5.348E-04	6.341E-01	3.180E-03	1.087E-03	1.087E-03
2000 - 2100	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.61	3.120E-01	1.565E-03	5.348E-04	5.348E-04	3.805E-01	1.908E-03	6.521E-04	6.521E-04
2100 - 2200	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.61	3.120E-01	1.565E-03	5.348E-04	5.348E-04	3.805E-01	1.908E-03	6.521E-04	6.521E-04
2200 - 2300	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.41	3.120E-01	1.565E-03	5.348E-04	5.348E-04	2.536E-01	1.272E-03	4.347E-04	4.347E-04
2300 - 2400	0.00	2.400E-01	1.204E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.20	3.120E-01	1.565E-03	5.348E-04	5.348E-04	1.268E-01	6.361E-04	2.174E-04	2.174E-04

Average Distance from Starting Place to PTI Egress =	50.0	m
Average Spread Distance outside PTI =	100.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within PTI (g)				Adjusted Starting Emission Outside PTI (g)				Starting Emission Rate Outside PTI (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	3.805E-01	1.908E-03	6.521E-04	6.521E-04	1.902E-01	9.541E-04	3.261E-04	3.261E-04	8.767E-01	4.417E-03	0.000E+00	0.000E+00	1.753E+00	8.834E-03	0.000E+00	0.000E+00	4.871E-04	2.454E-06	0.000E+00	0.000E+00
0700 - 0800	8.877E-01	4.452E-03	1.522E-03	1.522E-03	4.439E-01	2.226E-03	7.608E-04	7.608E-04	2.046E+00	1.031E-02	0.000E+00	0.000E+00	4.091E+00	2.061E-02	0.000E+00	0.000E+00	1.136E-03	5.726E-06	0.000E+00	0.000E+00
0800 - 0900	1.015E+00	5.089E-03	1.739E-03	1.739E-03	5.073E-01	2.544E-03	8.695E-04	8.695E-04	2.338E+00	1.178E-02	0.000E+00	0.000E+00	4.676E+00	2.356E-02	0.000E+00	0.000E+00	1.299E-03	6.544E-06	0.000E+00	0.000E+00
0900 - 1000	5.073E-01	2.544E-03	8.695E-04	8.695E-04	2.536E-01	1.272E-03	4.347E-04	4.347E-04	1.169E+00	5.889E-03	0.000E+00	0.000E+00	2.338E+00	1.178E-02	0.000E+00	0.000E+00	6.494E-04	3.272E-06	0.000E+00	0.000E+00
1000 - 1100	3.805E-01	1.908E-03	6.521E-04	6.521E-04	1.902E-01	9.541E-04	3.261E-04	3.261E-04	8.767E-01	4.417E-03	0.000E+00	0.000E+00	1.753E+00	8.834E-03	0.000E+00	0.000E+00	4.871E-04	2.454E-06	0.000E+00	0.000E+00
1100 - 1200	3.805E-01	1.908E-03	6.521E-04	6.521E-04	1.902E-01	9.541E-04	3.261E-04	3.261E-04	8.767E-01	4.417E-03	0.000E+00	0.000E+00	1.753E+00	8.834E-03	0.000E+00	0.000E+00	4.871E-04	2.454E-06	0.000E+00	0.000E+00
1200 - 1300	3.805E-01	1.908E-03	6.521E-04	6.521E-04	1.902E-01	9.541E-04	3.261E-04	3.261E-04	8.767E-01	4.417E-03	0.000E+00	0.000E+00	1.753E+00	8.834E-03	0.000E+00	0.000E+00	4.871E-04	2.454E-06	0.000E+00	0.000E+00
1300 - 1400	3.805E-01	1.908E-03	6.521E-04	6.521E-04	1.902E-01	9.541E-04	3.261E-04	3.261E-04	8.767E-01	4.417E-03	0.000E+00	0.000E+00	1.753E+00	8.834E-03	0.000E+00	0.000E+00	4.871E-04	2.454E-06	0.000E+00	0.000E+00
1400 - 1500	3.805E-01	1.908E-03	6.521E-04	6.521E-04	1.902E-01	9.541E-04	3.261E-04	3.261E-04	8.767E-01	4.417E-03	0.000E+00	0.000E+00	1.753E+00	8.834E-03	0.000E+00	0.000E+00	4.871E-04	2.454E-06	0.000E+00	0.000E+00
1500 - 1600	5.073E-01	2.544E-03	8.695E-04	8.695E-04	2.536E-01	1.272E-03	4.347E-04	4.347E-04	1.169E+00	5.889E-03	0.000E+00	0.000E+00	2.338E+00	1.178E-02	0.000E+00	0.000E+00	6.494E-04	3.272E-06	0.000E+00	0.000E+00
1600 - 1700	5.073E-01	2.544E-03	8.695E-04	8.695E-04	2.536E-01	1.272E-03	4.347E-04	4.347E-04	1.169E+00	5.889E-03	0.000E+00	0.000E+00	2.338E+00	1.178E-02	0.000E+00	0.000E+00	6.494E-04	3.272E-06	0.000E+00	0.000E+00
1700 - 1800	6.341E-01	3.180E-03	1.087E-03	1.087E-03	3.170E-01	1.590E-03	5.434E-04	5.434E-04	1.461E+00	7.362E-03	0.000E+00	0.000E+00	2.922E+00	1.472E-02	0.000E+00	0.000E+00	8.118E-04	4.090E-06	0.000E+00	0.000E+00
1800 - 1900	1.015E+00	5.089E-03	1.739E-03	1.739E-03	5.073E-01	2.544E-03	8.695E-04	8.695E-04	2.338E+00	1.178E-02	0.000E+00	0.000E+00	4.676E+00	2.356E-02	0.000E+00	0.000E+00	1.299E-03	6.544E-06	0.000E+00	0.000E+00
1900 - 2000	6.341E-01	3.180E-03	1.087E-03	1.087E-03	3.170E-01	1.590E-03	5.434E-04	5.434E-04	1.461E+00	7.362E-03	0.000E+00	0.000E+00	2.922E+00	1.472E-02	0.000E+00	0.000E+00	8.118E-04	4.090E-06	0.000E+00	0.000E+00
2000 - 2100	3.805E-01	1.908E-03	6.521E-04	6.521E-04	1.902E-01	9.541E-04	3.261E-04	3.261E-04	8.767E-01	4.417E-03	0.000E+00	0.000E+00	1.753E+00	8.834E-03	0.000E+00	0.000E+00	4.871E-04	2.454E-06	0.000E+00	0.000E+00
2100 - 2200	3.805E-01	1.908E-03	6.521E-04	6.521E-04	1.902E-01	9.541E-04	3.261E-04	3.261E-04	8.767E-01	4.417E-03	0.000E+00	0.000E+00	1.753E+00	8.834E-03	0.000E+00	0.000E+00	4.871E-04	2.454E-06	0.000E+00	0.000E+00
2200 - 2300	2.536E-01	1.272E-03	4.347E-04	4.347E-04	1.268E-01	6.361E-04	2.174E-04	2.174E-04	5.845E-01	2.945E-03	0.000E+00	0.000E+00	1.169E+00	5.889E-03	0.000E+00	0.000E+00	3.247E-04	1.636E-06	0.000E+00	0.000E+00
2300 - 2400	1.268E-01	6.361E-04	2.174E-04	2.174E-04	6.341E-02	3.180E-04	1.087E-04	1.087E-04	2.922E-01	1.472E-03	0.000E+00	0.000E+00	5.845E-01	2.945E-03	0.000E+00	0.000E+00	1.624E-04	8.180E-07	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Lok Ma Chau Station PTI (PLB)

Running Emission

Average Travelling Distance within PTI =	100	m
Average Travelling Speed =	10	km/h

Hour	PLB								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within PTI (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	3.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	3.015E-01	6.777E-02	1.521E-02	1.398E-02
0700 - 0800	7.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	7.034E-01	1.581E-01	3.549E-02	3.262E-02
0800 - 0900	8.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	8.039E-01	1.807E-01	4.056E-02	3.728E-02
0900 - 1000	4.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	4.020E-01	9.036E-02	2.028E-02	1.864E-02
1000 - 1100	3.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	3.015E-01	6.777E-02	1.521E-02	1.398E-02
1100 - 1200	3.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	3.015E-01	6.777E-02	1.521E-02	1.398E-02
1200 - 1300	3.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	3.015E-01	6.777E-02	1.521E-02	1.398E-02
1300 - 1400	3.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	3.015E-01	6.777E-02	1.521E-02	1.398E-02
1400 - 1500	3.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	3.015E-01	6.777E-02	1.521E-02	1.398E-02
1500 - 1600	4.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	4.020E-01	9.036E-02	2.028E-02	1.864E-02
1600 - 1700	4.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	4.020E-01	9.036E-02	2.028E-02	1.864E-02
1700 - 1800	5.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	5.024E-01	1.129E-01	2.535E-02	2.330E-02
1800 - 1900	8.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	8.039E-01	1.807E-01	4.056E-02	3.728E-02
1900 - 2000	5.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	5.024E-01	1.129E-01	2.535E-02	2.330E-02
2000 - 2100	3.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	3.015E-01	6.777E-02	1.521E-02	1.398E-02
2100 - 2200	3.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	3.015E-01	6.777E-02	1.521E-02	1.398E-02
2200 - 2300	2.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	2.010E-01	4.518E-02	1.014E-02	9.320E-03
2300 - 2400	1.00	1.005E+00	2.259E-01	5.070E-02	4.660E-02	1.005E-01	2.259E-02	5.070E-03	4.660E-03

Idling Emission

No. of PLB (Diesel) to No. of PLB (LPG) Ratio [1] =	3.92	
Idling Time for Non-terminating PLBs =	0.5	min

Hour	PLB (Diesel)									PLB (LPG)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.369E-02	9.210E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.120E-01	1.565E-03	5.348E-04	5.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of PLB (Diesel) to PLB (LPG) was extracted from Year 2031 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Lok Ma Chau Station PTI (PLB)

Total Hourly Emission

Hour	Emission Within PTI							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.686E+00	1.236E-01	1.793E-02	1.670E-02	4.683E-04	3.433E-05	4.982E-06	4.640E-06
0700 - 0800	3.934E+00	2.884E-01	4.185E-02	3.898E-02	1.093E-03	8.011E-05	1.162E-05	1.083E-05
0800 - 0900	4.496E+00	3.296E-01	4.782E-02	4.454E-02	1.249E-03	9.156E-05	1.328E-05	1.237E-05
0900 - 1000	2.248E+00	1.648E-01	2.391E-02	2.227E-02	6.244E-04	4.578E-05	6.642E-06	6.187E-06
1000 - 1100	1.686E+00	1.236E-01	1.793E-02	1.670E-02	4.683E-04	3.433E-05	4.982E-06	4.640E-06
1100 - 1200	1.686E+00	1.236E-01	1.793E-02	1.670E-02	4.683E-04	3.433E-05	4.982E-06	4.640E-06
1200 - 1300	1.686E+00	1.236E-01	1.793E-02	1.670E-02	4.683E-04	3.433E-05	4.982E-06	4.640E-06
1300 - 1400	1.686E+00	1.236E-01	1.793E-02	1.670E-02	4.683E-04	3.433E-05	4.982E-06	4.640E-06
1400 - 1500	1.686E+00	1.236E-01	1.793E-02	1.670E-02	4.683E-04	3.433E-05	4.982E-06	4.640E-06
1500 - 1600	2.248E+00	1.648E-01	2.391E-02	2.227E-02	6.244E-04	4.578E-05	6.642E-06	6.187E-06
1600 - 1700	2.248E+00	1.648E-01	2.391E-02	2.227E-02	6.244E-04	4.578E-05	6.642E-06	6.187E-06
1700 - 1800	2.810E+00	2.060E-01	2.989E-02	2.784E-02	7.805E-04	5.722E-05	8.303E-06	7.733E-06
1800 - 1900	4.496E+00	3.296E-01	4.782E-02	4.454E-02	1.249E-03	9.156E-05	1.328E-05	1.237E-05
1900 - 2000	2.810E+00	2.060E-01	2.989E-02	2.784E-02	7.805E-04	5.722E-05	8.303E-06	7.733E-06
2000 - 2100	1.686E+00	1.236E-01	1.793E-02	1.670E-02	4.683E-04	3.433E-05	4.982E-06	4.640E-06
2100 - 2200	1.686E+00	1.236E-01	1.793E-02	1.670E-02	4.683E-04	3.433E-05	4.982E-06	4.640E-06
2200 - 2300	1.124E+00	8.240E-02	1.196E-02	1.114E-02	3.122E-04	2.289E-05	3.321E-06	3.093E-06
2300 - 2400	5.620E-01	4.120E-02	5.978E-03	5.568E-03	1.561E-04	1.144E-05	1.661E-06	1.547E-06

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Lok Ma Chau Loop PTI(FBDD_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	6.186E-01	1.114E+00	1.485E+00	2.103E+00	2.598E+00	3.464E+00	5.073E+00	6.310E+00	9.279E+00	1.212E+01	1.361E+01	1.608E+01	1.769E+01	1.856E+01	1.905E+01	1.955E+01	1.980E+01	1.980E+01
NO_2	5.540E-02	9.960E-02	1.329E-01	1.882E-01	2.325E-01	3.100E-01	4.540E-01	5.647E-01	8.304E-01	1.085E+00	1.218E+00	1.439E+00	1.583E+00	1.661E+00	1.705E+00	1.749E+00	1.772E+00	1.772E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of FBDD**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
2.969E+00	2.658E-01	0.000E+00	0.000E+00
1.485E+00	1.329E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.969E+00	2.658E-01	0.000E+00	0.000E+00
1.485E+01	1.329E+00	0.000E+00	0.000E+00
4.305E+01	3.854E+00	0.000E+00	0.000E+00
4.454E+01	3.987E+00	0.000E+00	0.000E+00
2.375E+01	2.126E+00	0.000E+00	0.000E+00
1.782E+01	1.595E+00	0.000E+00	0.000E+00
1.485E+01	1.329E+00	0.000E+00	0.000E+00
1.633E+01	1.462E+00	0.000E+00	0.000E+00
1.485E+01	1.329E+00	0.000E+00	0.000E+00
1.485E+01	1.329E+00	0.000E+00	0.000E+00
2.227E+01	1.994E+00	0.000E+00	0.000E+00
2.524E+01	2.259E+00	0.000E+00	0.000E+00
3.118E+01	2.791E+00	0.000E+00	0.000E+00
4.602E+01	4.120E+00	0.000E+00	0.000E+00
2.821E+01	2.525E+00	0.000E+00	0.000E+00
1.782E+01	1.595E+00	0.000E+00	0.000E+00
1.485E+01	1.329E+00	0.000E+00	0.000E+00
1.039E+01	9.303E-01	0.000E+00	0.000E+00
7.423E+00	6.645E-01	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the PTI and operators' published schedules, while sitting time were obtained based on on-site observations at PTI.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Lok Ma Chau Loop PTI(FBDD_Diesel)

Cold Idling Emission

Idling Time for Terminating Buses =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	FBDD (Diesel)									FBDD (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	7.147E-01	5.638E-02	6.363E-03	6.363E-03
0100 - 0200	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	3.574E-01	2.819E-02	3.182E-03	3.182E-03
0200 - 0300	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	7.147E-01	5.638E-02	6.363E-03	6.363E-03
0600 - 0700	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	10.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	3.574E+00	2.819E-01	3.182E-02	3.182E-02
0700 - 0800	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	29.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	1.036E+01	8.176E-01	9.227E-02	9.227E-02
0800 - 0900	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	30.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	1.072E+01	8.458E-01	9.545E-02	9.545E-02
0900 - 1000	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	16.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	5.718E+00	4.511E-01	5.091E-02	5.091E-02
1000 - 1100	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	12.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	4.288E+00	3.383E-01	3.818E-02	3.818E-02
1100 - 1200	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	10.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	3.574E+00	2.819E-01	3.182E-02	3.182E-02
1200 - 1300	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	11.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	3.931E+00	3.101E-01	3.500E-02	3.500E-02
1300 - 1400	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	10.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	3.574E+00	2.819E-01	3.182E-02	3.182E-02
1400 - 1500	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	10.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	3.574E+00	2.819E-01	3.182E-02	3.182E-02
1500 - 1600	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	15.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	5.360E+00	4.229E-01	4.772E-02	4.772E-02
1600 - 1700	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	17.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	6.075E+00	4.793E-01	5.409E-02	5.409E-02
1700 - 1800	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	21.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	7.505E+00	5.920E-01	6.681E-02	6.681E-02
1800 - 1900	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	31.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	1.108E+01	8.739E-01	9.863E-02	9.863E-02
1900 - 2000	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	19.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	6.790E+00	5.356E-01	6.045E-02	6.045E-02
2000 - 2100	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	12.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	4.288E+00	3.383E-01	3.818E-02	3.818E-02
2100 - 2200	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	10.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	3.574E+00	2.819E-01	3.182E-02	3.182E-02
2200 - 2300	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	2.502E+00	1.973E-01	2.227E-02	2.227E-02
2300 - 2400	0.00	5.395E+00	4.256E-01	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	1.787E+00	1.410E-01	1.591E-02	1.591E-02

Average Distance from Starting Place to PTI Egress =	100	m
Average Spread Distance outside PTI =	600	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within PTI (g)				Adjusted Starting Emission Outside PTI (g)				Starting Emission Rate Outside PTI (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	7.147E-01	5.638E-02	6.363E-03	6.363E-03	3.574E-01	2.819E-02	3.182E-03	3.182E-03	3.731E-01	3.394E-02	0.000E+00	0.000E+00	2.239E+00	2.037E-01	0.000E+00	0.000E+00	6.219E-04	5.657E-05	0.000E+00	0.000E+00
0100 - 0200	3.574E-01	2.819E-02	3.182E-03	3.182E-03	1.787E-01	1.410E-02	1.591E-03	1.591E-03	1.866E-01	1.697E-02	0.000E+00	0.000E+00	1.119E+00	1.018E-01	0.000E+00	0.000E+00	3.109E-04	2.829E-05	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	7.147E-01	5.638E-02	6.363E-03	6.363E-03	3.574E-01	2.819E-02	3.182E-03	3.182E-03	3.731E-01	3.394E-02	0.000E+00	0.000E+00	2.239E+00	2.037E-01	0.000E+00	0.000E+00	6.219E-04	5.657E-05	0.000E+00	0.000E+00
0600 - 0700	3.574E+00	2.819E-01	3.182E-02	3.182E-02	1.787E+00	1.410E-01	1.591E-02	1.591E-02	1.866E+00	1.697E-01	0.000E+00	0.000E+00	1.119E+01	1.018E+00	0.000E+00	0.000E+00	3.109E-03	2.829E-04	0.000E+00	0.000E+00
0700 - 0800	1.036E+01	8.176E-01	9.227E-02	9.227E-02	5.182E+00	4.088E-01	4.613E-02	4.613E-02	5.410E+00	4.922E-01	0.000E+00	0.000E+00	3.246E+01	2.953E+00	0.000E+00	0.000E+00	9.017E-03	8.203E-04	0.000E+00	0.000E+00
0800 - 0900	1.072E+01	8.458E-01	9.545E-02	9.545E-02	5.360E+00	4.229E-01	4.772E-02	4.772E-02	5.597E+00	5.092E-01	0.000E+00	0.000E+00	3.358E+01	3.055E+00	0.000E+00	0.000E+00	9.328E-03	8.486E-04	0.000E+00	0.000E+00
0900 - 1000	5.718E+00	4.511E-01	5.091E-02	5.091E-02	2.859E+00	2.255E-01	2.545E-02	2.545E-02	2.985E+00	2.716E-01	0.000E+00	0.000E+00	1.791E+01	1.629E+00	0.000E+00	0.000E+00	4.975E-03	4.526E-04	0.000E+00	0.000E+00
1000 - 1100	4.288E+00	3.383E-01	3.818E-02	3.818E-02	2.144E+00	1.692E-01	1.909E-02	1.909E-02	2.239E+00	2.037E-01	0.000E+00	0.000E+00	1.343E+01	1.222E+00	0.000E+00	0.000E+00	3.731E-03	3.394E-04	0.000E+00	0.000E+00
1100 - 1200	3.574E+00	2.819E-01	3.182E-02	3.182E-02	1.787E+00	1.410E-01	1.591E-02	1.591E-02	1.866E+00	1.697E-01	0.000E+00	0.000E+00	1.119E+01	1.018E+00	0.000E+00	0.000E+00	3.109E-03	2.829E-04	0.000E+00	0.000E+00
1200 - 1300	3.931E+00	3.101E-01	3.500E-02	3.500E-02	1.965E+00	1.551E-01	1.750E-02	1.750E-02	2.052E+00	1.867E-01	0.000E+00	0.000E+00	1.231E+01	1.120E+00	0.000E+00	0.000E+00	3.420E-03	3.112E-04	0.000E+00	0.000E+00
1300 - 1400	3.574E+00	2.819E-01	3.182E-02	3.182E-02	1.787E+00	1.410E-01	1.591E-02	1.591E-02	1.866E+00	1.697E-01	0.000E+00	0.000E+00	1.119E+01	1.018E+00	0.000E+00	0.000E+00	3.109E-03	2.829E-04	0.000E+00	0.000E+00
1400 - 1500	3.574E+00	2.819E-01	3.182E-02	3.182E-02	1.787E+00	1.410E-01	1.591E-02	1.591E-02	1.866E+00	1.697E-01	0.000E+00	0.000E+00	1.119E+01	1.018E+00	0.000E+00	0.000E+00	3.109E-03	2.829E-04	0.000E+00	0.000E+00
1500 - 1600	5.360E+00	4.229E-01	4.772E-02	4.772E-02	2.680E+00	2.114E-01	2.386E-02	2.386E-02	2.798E+00	2.546E-01	0.000E+00	0.000E+00	1.679E+01	1.527E+00	0.000E+00	0.000E+00	4.664E-03	4.243E-04	0.000E+00	0.000E+00
1600 - 1700	6.075E+00	4.793E-01	5.409E-02	5.409E-02	3.038E+00	2.396E-01	2.704E-02	2.704E-02	3.172E+00	2.885E-01	0.000E+00	0.000E+00	1.903E+01	1.731E+00	0.000E+00	0.000E+00	5.286E-03	4.809E-04	0.000E+00	0.000E+00
1700 - 1800	7.505E+00	5.920E-01	6.681E-02	6.681E-02	3.752E+00	2.960E-01	3.341E-02	3.341E-02	3.918E+00	3.564E-01	0.000E+00	0.000E+00	2.351E+01	2.138E+00	0.000E+00	0.000E+00	6.530E-03	5.940E-04	0.000E+00	0.000E+00
1800 - 1900	1.108E+01	8.739E-01	9.863E-02	9.863E-02	5.539E+00	4.370E-01	4.932E-02	4.932E-02	5.783E+00	5.261E-01	0.000E+00	0.000E+00	3.470E+01	3.157E+00	0.000E+00	0.000E+00	9.639E-03	8.769E-04	0.000E+00	0.000E+00
1900 - 2000	6.790E+00	5.356E-01	6.045E-02	6.045E-02	3.395E+00	2.678E-01	3.023E-02	3.023E-02	3.545E+00	3.225E-01	0.000E+00	0.000E+00	2.127E+01	1.935E+00	0.000E+00	0.000E+00	5.908E-03	5.374E-04	0.000E+00	0.000E+00
2000 - 2100	4.288E+00	3.383E-01	3.818E-02	3.818E-02	2.144E+00	1.692E-01	1.909E-02	1.909E-02	2.239E+00	2.037E-01	0.000E+00	0.000E+00	1.343E+01	1.222E+00	0.000E+00	0.000E+00	3.731E-03	3.394E-04	0.000E+00	0.000E+00
2100 - 2200	3.574E+00	2.819E-01	3.182E-02	3.182E-02	1.787E+00	1.410E-01	1.591E-02	1.591E-02	1.866E+00	1.697E-01	0.000E+00	0.000E+00	1.119E+01	1.018E+00	0.000E+00	0.000E+00	3.109E-03	2.829E-04	0.000E+00	0.000E+00
2200 - 2300	2.502E+00	1.973E-01	2.227E-02	2.227E-02	1.251E+00	9.867E-02	1.114E-02	1.114E-02	1.306E+00	1.188E-01	0.000E+00	0.000E+00	7.836E+00	7.128E-01	0.000E+00	0.000E+00	2.177E-03	1.980E-04	0.000E+00	0.000E+00
2300 - 2400	1.787E+00	1.410E-01	1.591E-02	1.591E-02	8.934E-01	7.048E-02	7.954E-03	7.954E-03	9.328E-01	8.486E-02	0.000E+00	0.000E+00	5.597E+00	5.092E-01	0.000E+00	0.000E+00	1.555E-03	1.414E-04	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Lok Ma Chau Loop PTI (FBDD)

Running Emission

Average Travelling Distance within PTI =	200	m
Average Travelling Speed =	10	km/h

Hour	FBDD								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within PTI (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	2	9.613E+00	7.584E-01	3.463E-01	3.186E-01	3.845E+00	3.034E-01	1.385E-01	1.274E-01
0100 - 0200	1	9.613E+00	7.584E-01	3.463E-01	3.186E-01	1.923E+00	1.517E-01	6.926E-02	6.372E-02
0200 - 0300	0	9.613E+00	7.584E-01	3.463E-01	3.186E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0	9.613E+00	7.584E-01	3.463E-01	3.186E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0	9.613E+00	7.584E-01	3.463E-01	3.186E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	2	9.613E+00	7.584E-01	3.463E-01	3.186E-01	3.845E+00	3.034E-01	1.385E-01	1.274E-01
0600 - 0700	10	9.613E+00	7.584E-01	3.463E-01	3.186E-01	1.923E+01	1.517E+00	6.926E-01	6.372E-01
0700 - 0800	29	9.613E+00	7.584E-01	3.463E-01	3.186E-01	5.576E+01	4.399E+00	2.009E+00	1.848E+00
0800 - 0900	30	9.613E+00	7.584E-01	3.463E-01	3.186E-01	5.768E+01	4.550E+00	2.078E+00	1.912E+00
0900 - 1000	16	9.613E+00	7.584E-01	3.463E-01	3.186E-01	3.076E+01	2.427E+00	1.108E+00	1.020E+00
1000 - 1100	12	9.613E+00	7.584E-01	3.463E-01	3.186E-01	2.307E+01	1.820E+00	8.311E-01	7.646E-01
1100 - 1200	10	9.613E+00	7.584E-01	3.463E-01	3.186E-01	1.923E+01	1.517E+00	6.926E-01	6.372E-01
1200 - 1300	11	9.613E+00	7.584E-01	3.463E-01	3.186E-01	2.115E+01	1.668E+00	7.619E-01	7.009E-01
1300 - 1400	10	9.613E+00	7.584E-01	3.463E-01	3.186E-01	1.923E+01	1.517E+00	6.926E-01	6.372E-01
1400 - 1500	10	9.613E+00	7.584E-01	3.463E-01	3.186E-01	1.923E+01	1.517E+00	6.926E-01	6.372E-01
1500 - 1600	15	9.613E+00	7.584E-01	3.463E-01	3.186E-01	2.884E+01	2.275E+00	1.039E+00	9.558E-01
1600 - 1700	17	9.613E+00	7.584E-01	3.463E-01	3.186E-01	3.269E+01	2.579E+00	1.177E+00	1.083E+00
1700 - 1800	21	9.613E+00	7.584E-01	3.463E-01	3.186E-01	4.038E+01	3.185E+00	1.454E+00	1.338E+00
1800 - 1900	31	9.613E+00	7.584E-01	3.463E-01	3.186E-01	5.960E+01	4.702E+00	2.147E+00	1.975E+00
1900 - 2000	19	9.613E+00	7.584E-01	3.463E-01	3.186E-01	3.653E+01	2.882E+00	1.316E+00	1.211E+00
2000 - 2100	12	9.613E+00	7.584E-01	3.463E-01	3.186E-01	2.307E+01	1.820E+00	8.311E-01	7.646E-01
2100 - 2200	10	9.613E+00	7.584E-01	3.463E-01	3.186E-01	1.923E+01	1.517E+00	6.926E-01	6.372E-01
2200 - 2300	7	9.613E+00	7.584E-01	3.463E-01	3.186E-01	1.346E+01	1.062E+00	4.848E-01	4.460E-01
2300 - 2400	5	9.613E+00	7.584E-01	3.463E-01	3.186E-01	9.613E+00	7.584E-01	3.463E-01	3.186E-01

Idling Emission

Idling Time for Non-terminating Buses =	1	min

Hour	FBDD								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.787E-01	1.410E-02	1.591E-03	1.591E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Lok Ma Chau Loop PTI (FBDD)

Total Hourly Emission

Hour	Emission Within PTI							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	4.933E+00	3.937E-01	1.449E-01	1.338E-01	1.370E-03	1.094E-04	4.025E-05	3.717E-05
0100 - 0200	2.467E+00	1.968E-01	7.244E-02	6.690E-02	6.852E-04	5.468E-05	2.012E-05	1.858E-05
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	4.933E+00	3.937E-01	1.449E-01	1.338E-01	1.370E-03	1.094E-04	4.025E-05	3.717E-05
0600 - 0700	2.467E+01	1.968E+00	7.244E-01	6.690E-01	6.852E-03	5.468E-04	2.012E-04	1.858E-04
0700 - 0800	7.153E+01	5.708E+00	2.101E+00	1.940E+00	1.987E-02	1.586E-03	5.836E-04	5.389E-04
0800 - 0900	7.400E+01	5.905E+00	2.173E+00	2.007E+00	2.056E-02	1.640E-03	6.037E-04	5.575E-04
0900 - 1000	3.947E+01	3.150E+00	1.159E+00	1.070E+00	1.096E-02	8.749E-04	3.220E-04	2.973E-04
1000 - 1100	2.960E+01	2.362E+00	8.693E-01	8.028E-01	8.222E-03	6.561E-04	2.415E-04	2.230E-04
1100 - 1200	2.467E+01	1.968E+00	7.244E-01	6.690E-01	6.852E-03	5.468E-04	2.012E-04	1.858E-04
1200 - 1300	2.713E+01	2.165E+00	7.969E-01	7.359E-01	7.537E-03	6.015E-04	2.213E-04	2.044E-04
1300 - 1400	2.467E+01	1.968E+00	7.244E-01	6.690E-01	6.852E-03	5.468E-04	2.012E-04	1.858E-04
1400 - 1500	2.467E+01	1.968E+00	7.244E-01	6.690E-01	6.852E-03	5.468E-04	2.012E-04	1.858E-04
1500 - 1600	3.700E+01	2.953E+00	1.087E+00	1.004E+00	1.028E-02	8.202E-04	3.018E-04	2.788E-04
1600 - 1700	4.193E+01	3.346E+00	1.232E+00	1.137E+00	1.165E-02	9.295E-04	3.421E-04	3.159E-04
1700 - 1800	5.180E+01	4.134E+00	1.521E+00	1.405E+00	1.439E-02	1.148E-03	4.226E-04	3.903E-04
1800 - 1900	7.647E+01	6.102E+00	2.246E+00	2.074E+00	2.124E-02	1.695E-03	6.238E-04	5.761E-04
1900 - 2000	4.687E+01	3.740E+00	1.376E+00	1.271E+00	1.302E-02	1.039E-03	3.823E-04	3.531E-04
2000 - 2100	2.960E+01	2.362E+00	8.693E-01	8.028E-01	8.222E-03	6.561E-04	2.415E-04	2.230E-04
2100 - 2200	2.467E+01	1.968E+00	7.244E-01	6.690E-01	6.852E-03	5.468E-04	2.012E-04	1.858E-04
2200 - 2300	1.727E+01	1.378E+00	5.071E-01	4.683E-01	4.796E-03	3.828E-04	1.409E-04	1.301E-04
2300 - 2400	1.233E+01	9.842E-01	3.622E-01	3.345E-01	3.426E-03	2.734E-04	1.006E-04	9.292E-05

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (PC_Diesel)

Starting Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio =		0.02

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of PC_Diesel**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (PC_Diesel)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	PC (Diesel)									PC (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.02	4.752E-02	6.098E-03	8.116E-04	8.116E-04	1.558E-03	1.999E-04	2.660E-05	2.660E-05
1500 - 1600	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.02	4.752E-02	6.098E-03	8.116E-04	8.116E-04	1.558E-03	1.999E-04	2.660E-05	2.660E-05
1700 - 1800	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.02	4.752E-02	6.098E-03	8.116E-04	8.116E-04	1.558E-03	1.999E-04	2.660E-05	2.660E-05	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.02	4.752E-02	6.098E-03	8.116E-04	8.116E-04	1.558E-03	1.999E-04	2.660E-05	2.660E-05
2000 - 2100	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.558E-03	1.999E-04	2.660E-05	2.660E-05	7.788E-04	9.993E-05	1.330E-05	1.330E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.558E-03	1.999E-04	2.660E-05	2.660E-05	7.788E-04	9.993E-05	1.330E-05	1.330E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.558E-03	1.999E-04	2.660E-05	2.660E-05	7.788E-04	9.993E-05	1.330E-05	1.330E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	1.558E-03	1.999E-04	2.660E-05	2.660E-05	7.788E-04	9.993E-05	1.330E-05	1.330E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (PC_Petrol)

Starting Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio =		0.02

	Starting Emission Factor (g/trip)																	
NO	5.793E-02	5.914E-02	6.114E-02	6.315E-02	6.495E-02	6.675E-02	6.845E-02	7.606E-02	8.646E-02	8.565E-02	8.455E-02	8.275E-02	8.065E-02	7.794E-02	7.494E-02	7.123E-02	6.713E-02	6.252E-02
NO_2	3.102E-03	3.102E-03	3.202E-03	3.302E-03	3.403E-03	3.503E-03	3.603E-03	4.003E-03	4.503E-03	4.503E-03	4.403E-03	4.403E-03	4.202E-03	4.102E-03	3.902E-03	3.702E-03	3.502E-03	3.301E-03
RSP	4.010E-04	8.009E-04	1.501E-03	2.300E-03	3.000E-03	3.600E-03	4.300E-03	7.101E-03	7.901E-03	8.701E-03	9.302E-03	9.902E-03	1.040E-02	1.080E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.008E-04	7.007E-04	1.401E-03	2.100E-03	2.700E-03	3.400E-03	4.000E-03	6.600E-03	7.401E-03	8.101E-03	8.701E-03	9.201E-03	9.601E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	**No. of Cold Starts of PC_Petrol**																		Total Starting Emission (g)			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.698E-02	3.051E-03	3.945E-04	3.942E-04
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.817E-02	3.051E-03	7.878E-04	6.892E-04
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00	7.932E-02	4.134E-03	1.023E-02	9.444E-03
1900 - 2000	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.014E-02	3.150E-03	1.476E-03	1.378E-03
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (PC_Petrol)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	PC (Petrol)									PC (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.98	1.393E-03	7.348E-05	2.448E-05	2.448E-05	2.740E-03	1.445E-04	4.816E-05	4.816E-05
1500 - 1600	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.98	1.393E-03	7.348E-05	2.448E-05	2.448E-05	2.740E-03	1.445E-04	4.816E-05	4.816E-05
1700 - 1800	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.98	1.393E-03	7.348E-05	2.448E-05	2.448E-05	2.740E-03	1.445E-04	4.816E-05	4.816E-05	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.98	1.393E-03	7.348E-05	2.448E-05	2.448E-05	2.740E-03	1.445E-04	4.816E-05	4.816E-05
2000 - 2100	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	2.740E-03	1.445E-04	4.816E-05	4.816E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.698E-02	3.051E-03	3.945E-04	3.942E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.740E-03	1.445E-04	4.816E-05	4.816E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.817E-02	3.051E-03	7.878E-04	6.892E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.740E-03	1.445E-04	4.816E-05	4.816E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.932E-02	4.134E-03	1.023E-02	9.444E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	2.740E-03	1.445E-04	4.816E-05	4.816E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.014E-02	3.150E-03	1.476E-03	1.378E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (PC)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	PC								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	8.880E-03	4.800E-04	1.920E-03	1.780E-03
1500 - 1600	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	8.880E-03	4.800E-04	1.920E-03	1.780E-03
1700 - 1800	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	8.880E-03	4.800E-04	1.920E-03	1.780E-03
1900 - 2000	1.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	8.880E-03	4.800E-04	1.920E-03	1.780E-03
2000 - 2100	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio [1] =	0.02	
Idling Time for Non-terminating PCs =	0.5	min

Hour	PC (Diesel)									PC (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of PC (Diesel) to PC (Petrol) was extracted from Year 2031 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (PC)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	7.016E-02	3.875E-03	2.389E-03	2.249E-03	1.949E-05	1.076E-06	6.637E-07	6.247E-07
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	7.134E-02	3.875E-03	2.783E-03	2.544E-03	1.982E-05	1.077E-06	7.729E-07	7.067E-07
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	9.250E-02	4.958E-03	1.223E-02	1.130E-02	2.570E-05	1.377E-06	3.396E-06	3.139E-06
1900 - 2000	7.332E-02	3.974E-03	3.471E-03	3.232E-03	2.037E-05	1.104E-06	9.641E-07	8.979E-07
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (Taxi_LPG)

Starting Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio =		18055.56

	Starting Emission Factor (g/trip)																	
NO	1.033E+00	1.050E+00	1.083E+00	1.116E+00	1.147E+00	1.177E+00	1.206E+00	1.342E+00	1.525E+00	1.512E+00	1.491E+00	1.461E+00	1.423E+00	1.376E+00	1.320E+00	1.256E+00	1.183E+00	1.101E+00
NO_2	2.900E-02	2.950E-02	3.040E-02	3.130E-02	3.220E-02	3.300E-02	3.380E-02	3.770E-02	4.280E-02	4.240E-02	4.180E-02	4.100E-02	3.990E-02	3.860E-02	3.700E-02	3.520E-02	3.320E-02	3.090E-02
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of Taxi_LPG**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (Taxi_LPG)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (LPG)									Taxi (LPG)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	50.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (Taxi_Petrol)

Starting Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio =		18055.56

	Starting Emission Factor (g/trip)																	
NO	7.790E-02	7.910E-02	8.170E-02	8.420E-02	8.640E-02	8.870E-02	9.090E-02	1.013E-01	1.149E-01	1.140E-01	1.125E-01	1.102E-01	1.073E-01	1.037E-01	9.960E-02	9.470E-02	8.920E-02	8.300E-02
NO_2	4.100E-03	4.200E-03	4.300E-03	4.400E-03	4.600E-03	4.700E-03	4.800E-03	5.300E-03	6.100E-03	6.000E-03	5.900E-03	5.800E-03	5.600E-03	5.500E-03	5.200E-03	5.000E-03	4.700E-03	4.400E-03
RSP	4.000E-04	8.000E-04	1.500E-03	2.300E-03	3.000E-03	3.600E-03	4.200E-03	7.000E-03	7.900E-03	8.700E-03	9.300E-03	9.900E-03	1.040E-02	1.070E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.000E-04	7.000E-04	1.400E-03	2.100E-03	2.700E-03	3.400E-03	3.900E-03	6.500E-03	7.300E-03	8.000E-03	8.700E-03	9.200E-03	9.600E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	**No. of Cold Starts of Taxi_Petrol**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	**Total Starting Emission (g)**			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (Taxi_Petrol)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (Petrol)									Taxi (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	50.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (Taxi)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	Frequency	Taxi							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio [1] =	18055.56	
Idling Time for Non-terminating Taxi =	0.5	min

Hour	Frequency	Taxi (LPG)								Frequency	Taxi (Petrol)							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)					Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of Taxi (LPG) to Taxi (Petrol) was extracted from Year 2031 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (Taxi)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (LGV3_Diesel)

Starting Emission

No. of LGV3 (Diesel) to No. of LGV3 (Petrol) Ratio =		28.33

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of LGV3_Diesel**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	**Total Starting Emission (g)**			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (LGV3_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV3 (Diesel)									LGV3 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.97	2.956E-02	2.142E-03	4.333E-04	4.333E-04	5.710E-02	4.139E-03	8.371E-04	8.371E-04
0900 - 1000	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.97	2.956E-02	2.142E-03	4.333E-04	4.333E-04	5.710E-02	4.139E-03	8.371E-04	8.371E-04
1200 - 1300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.97	2.956E-02	2.142E-03	4.333E-04	4.333E-04	5.710E-02	4.139E-03	8.371E-04	8.371E-04
1700 - 1800	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	5.710E-02	4.139E-03	8.371E-04	8.371E-04	2.855E-02	2.069E-03	4.186E-04	4.186E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	5.710E-02	4.139E-03	8.371E-04	8.371E-04	2.855E-02	2.069E-03	4.186E-04	4.186E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	5.710E-02	4.139E-03	8.371E-04	8.371E-04	2.855E-02	2.069E-03	4.186E-04	4.186E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (LGV3_Petrol)

Starting Emission

No. of LGV3 (Diesel) to No. of LGV3 (Petrol) Ratio =		28.33

	Starting Emission Factor (g/trip)																	
NO	1.249E-01	1.411E-01	1.702E-01	1.947E-01	2.146E-01	2.299E-01	2.407E-01	2.577E-01	2.647E-01	2.594E-01	2.526E-01	2.443E-01	2.346E-01	2.232E-01	2.103E-01	1.961E-01	1.804E-01	1.631E-01
NO_2	6.600E-03	7.443E-03	8.967E-03	1.021E-02	1.127E-02	1.215E-02	1.265E-02	1.358E-02	1.397E-02	1.364E-02	1.325E-02	1.290E-02	1.230E-02	1.173E-02	1.111E-02	1.034E-02	9.505E-03	8.614E-03
RSP	2.676E-03	2.581E-03	2.462E-03	2.333E-03	2.390E-03	2.348E-03	2.490E-03	4.248E-03	5.352E-03	6.267E-03	7.086E-03	7.805E-03	8.524E-03	9.052E-03	9.481E-03	9.814E-03	9.952E-03	1.009E-02
FSP	2.067E-03	2.043E-03	1.952E-03	2.019E-03	2.062E-03	2.076E-03	2.252E-03	3.671E-03	4.552E-03	5.267E-03	5.910E-03	6.476E-03	6.971E-03	7.390E-03	7.738E-03	8.014E-03	8.214E-03	8.343E-03

Hour	**No. of Cold Starts of LGV3_Petrol**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.804E-03	3.057E-04	8.393E-05	6.656E-05
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
4.810E-03	2.537E-04	8.799E-05	6.964E-05
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
7.316E-03	3.843E-04	8.149E-05	7.029E-05
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (LGV3_Petrol)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	LGV3 (Petrol)									LGV3 (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	2.550E-03	1.340E-04	1.224E-05	1.224E-05	1.739E-04	9.137E-06	8.342E-07	8.342E-07
0900 - 1000	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	2.550E-03	1.340E-04	1.224E-05	1.224E-05	1.739E-04	9.137E-06	8.342E-07	8.342E-07
1200 - 1300	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	2.550E-03	1.340E-04	1.224E-05	1.224E-05	1.739E-04	9.137E-06	8.342E-07	8.342E-07
1700 - 1800	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.739E-04	9.137E-06	8.342E-07	8.342E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.804E-03	3.057E-04	8.393E-05	6.656E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.739E-04	9.137E-06	8.342E-07	8.342E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.810E-03	2.537E-04	8.799E-05	6.964E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.739E-04	9.137E-06	8.342E-07	8.342E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.316E-03	3.843E-04	8.149E-05	7.029E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (LGV3)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	LGV3								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	3.349E-01	2.424E-02	3.220E-03	2.960E-03
0900 - 1000	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	3.349E-01	2.424E-02	3.220E-03	2.960E-03
1200 - 1300	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	3.349E-01	2.424E-02	3.220E-03	2.960E-03
1500 - 1600	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	3.349E-01	2.424E-02	3.220E-03	2.960E-03
1700 - 1800	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of LGV3 (Diesel) to No. of LGV3 (Petrol) Ratio [1] =	28.33	
Idling Time for Non-terminating LGV3s =	0.5	min

Hour	LGV3 (Diesel)									LGV3 (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.97	2.956E-02	2.142E-03	4.333E-04	4.333E-04	1.427E-02	1.035E-03	2.093E-04	2.093E-04	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	4.347E-05	2.284E-06	2.086E-07	2.086E-07
1500 - 1600	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of LGV3 (Diesel) to LGV3 (Petrol) was extracted from Year 2031 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (LGV3)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	3.980E-01	2.869E-02	4.142E-03	3.865E-03	1.106E-04	7.970E-06	1.151E-06	1.073E-06
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	3.970E-01	2.864E-02	4.146E-03	3.868E-03	1.103E-04	7.956E-06	1.152E-06	1.074E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	3.493E-01	2.528E-02	3.429E-03	3.169E-03	9.702E-05	7.021E-06	9.526E-07	8.804E-07
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	3.995E-01	2.877E-02	4.139E-03	3.868E-03	1.110E-04	7.992E-06	1.150E-06	1.075E-06
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (LGV6_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	4.440E-02	8.000E-02	1.067E-01	1.511E-01	1.867E-01	2.490E-01	3.645E-01	4.535E-01	6.668E-01	8.713E-01	9.780E-01	1.156E+00	1.271E+00	1.334E+00	1.369E+00	1.405E+00	1.423E+00	1.423E+00
NO_2	1.730E-02	3.110E-02	4.150E-02	5.880E-02	7.260E-02	9.680E-02	1.418E-01	1.763E-01	2.593E-01	3.388E-01	3.803E-01	4.495E-01	4.944E-01	5.186E-01	5.325E-01	5.463E-01	5.532E-01	5.532E-01
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of LGV6**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.067E-01	4.150E-02	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.000E-02	3.110E-02	0.000E+00	0.000E+00
1.067E-01	4.150E-02	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.067E-01	4.150E-02	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (LGV6_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV6s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV6 (Diesel)									LGV6 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	9.022E-02	3.509E-02	9.056E-04	9.056E-04
1200 - 1300	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	9.022E-02	3.509E-02	9.056E-04	9.056E-04
1500 - 1600	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	9.022E-02	3.509E-02	9.056E-04	9.056E-04
1600 - 1700	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	9.022E-02	3.509E-02	9.056E-04	9.056E-04
1800 - 1900	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	9.022E-02	3.509E-02	9.056E-04	9.056E-04	4.511E-02	1.754E-02	4.528E-04	4.528E-04	8.799E-03	3.422E-03	0.000E+00	0.000E+00	5.279E-02	2.053E-02	0.000E+00	0.000E+00	1.466E-05	5.704E-06	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	9.022E-02	3.509E-02	9.056E-04	9.056E-04	4.511E-02	1.754E-02	4.528E-04	4.528E-04	4.984E-03	1.937E-03	0.000E+00	0.000E+00	2.991E-02	1.162E-02	0.000E+00	0.000E+00	8.307E-06	3.228E-06	0.000E+00	0.000E+00
1500 - 1600	9.022E-02	3.509E-02	9.056E-04	9.056E-04	4.511E-02	1.754E-02	4.528E-04	4.528E-04	8.799E-03	3.422E-03	0.000E+00	0.000E+00	5.279E-02	2.053E-02	0.000E+00	0.000E+00	1.466E-05	5.704E-06	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	9.022E-02	3.509E-02	9.056E-04	9.056E-04	4.511E-02	1.754E-02	4.528E-04	4.528E-04	8.799E-03	3.422E-03	0.000E+00	0.000E+00	5.279E-02	2.053E-02	0.000E+00	0.000E+00	1.466E-05	5.704E-06	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (LGV6)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	Frequency	LGV6							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	3.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	6.062E-01	2.357E-01	2.016E-02	1.860E-02
1200 - 1300	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	2.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	4.041E-01	1.572E-01	1.344E-02	1.240E-02
1500 - 1600	2.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	4.041E-01	1.572E-01	1.344E-02	1.240E-02
1600 - 1700	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	2.021E-01	7.858E-02	6.720E-03	6.200E-03
1800 - 1900	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating LGV6s =	2	min

Hour	Frequency	LGV6							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	2.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	1.804E-01	7.017E-02	1.811E-03	1.811E-03
1200 - 1300	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	9.022E-02	3.509E-02	9.056E-04	9.056E-04
1500 - 1600	1.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	9.022E-02	3.509E-02	9.056E-04	9.056E-04
1600 - 1700	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (LGV6)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	8.856E-01	3.444E-01	2.288E-02	2.132E-02	2.460E-04	9.567E-05	6.355E-06	5.921E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	5.895E-01	2.293E-01	1.525E-02	1.421E-02	1.638E-04	6.369E-05	4.236E-06	3.948E-06
1500 - 1600	5.934E-01	2.308E-01	1.525E-02	1.421E-02	1.648E-04	6.410E-05	4.236E-06	3.948E-06
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	3.011E-01	1.171E-01	7.626E-03	7.106E-03	8.363E-05	3.252E-05	2.118E-06	1.974E-06
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (HGV7_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	7.730E-02	1.391E-01	1.855E-01	2.627E-01	3.246E-01	4.328E-01	6.336E-01	7.882E-01	1.159E+00	1.515E+00	1.700E+00	2.009E+00	2.210E+00	2.318E+00	2.380E+00	2.442E+00	2.473E+00	2.473E+00
NO_2	3.690E-02	6.640E-02	8.860E-02	1.255E-01	1.550E-01	2.067E-01	3.027E-01	3.765E-01	5.537E-01	7.235E-01	8.121E-01	9.598E-01	1.056E+00	1.108E+00	1.137E+00	1.167E+00	1.181E+00	1.181E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of HGV7**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.133E+00	1.019E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.328E-01	2.067E-01	0.000E+00	0.000E+00
1500 - 1600	0.00	1.00	2.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.828E+00	1.351E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.855E-01	8.860E-02	0.000E+00	0.000E+00
1800 - 1900	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.246E-01	1.550E-01	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (HGV7_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV7s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV7 (Diesel)									HGV7 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	9.691E-01	4.469E-01	1.917E-03	1.917E-03	1.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	8.979E-02	4.140E-02	9.587E-04	9.587E-04
1000 - 1100	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	8.979E-02	4.140E-02	9.587E-04	9.587E-04
1500 - 1600	2.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	9.691E-01	4.469E-01	1.917E-03	1.917E-03	3.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	2.694E-01	1.242E-01	2.876E-03	2.876E-03
1600 - 1700	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	8.979E-02	4.140E-02	9.587E-04	9.587E-04
1800 - 1900	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	1.796E-01	8.280E-02	1.917E-03	1.917E-03
1900 - 2000	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.059E+00	4.883E-01	2.876E-03	2.876E-03	5.295E-01	2.441E-01	1.438E-03	1.438E-03	2.290E-01	1.107E-01	0.000E+00	0.000E+00	1.374E+00	6.640E-01	0.000E+00	0.000E+00	3.817E-04	1.844E-04	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	8.979E-02	4.140E-02	9.587E-04	9.587E-04	4.489E-02	2.070E-02	4.794E-04	4.794E-04	5.542E-02	2.657E-02	0.000E+00	0.000E+00	3.325E-01	1.594E-01	0.000E+00	0.000E+00	9.236E-05	4.429E-05	0.000E+00	0.000E+00
1500 - 1600	1.238E+00	5.711E-01	4.794E-03	4.794E-03	6.192E-01	2.855E-01	2.397E-03	2.397E-03	3.156E-01	1.522E-01	0.000E+00	0.000E+00	1.893E+00	9.133E-01	0.000E+00	0.000E+00	5.260E-04	2.537E-04	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	8.979E-02	4.140E-02	9.587E-04	9.587E-04	4.489E-02	2.070E-02	4.794E-04	4.794E-04	2.009E-02	9.700E-03	0.000E+00	0.000E+00	1.205E-01	5.820E-02	0.000E+00	0.000E+00	3.348E-05	1.617E-05	0.000E+00	0.000E+00
1800 - 1900	1.796E-01	8.280E-02	1.917E-03	1.917E-03	8.979E-02	4.140E-02	9.587E-04	9.587E-04	3.354E-02	1.623E-02	0.000E+00	0.000E+00	2.013E-01	9.737E-02	0.000E+00	0.000E+00	5.591E-05	2.705E-05	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (HGV7)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV7							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	3.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	9.457E-01	4.361E-01	3.816E-02	3.516E-02
1000 - 1100	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	3.152E-01	1.454E-01	1.272E-02	1.172E-02
1500 - 1600	5.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	1.576E+00	7.268E-01	6.360E-02	5.860E-02
1600 - 1700	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	3.152E-01	1.454E-01	1.272E-02	1.172E-02
1800 - 1900	2.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	6.305E-01	2.907E-01	2.544E-02	2.344E-02
1900 - 2000	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV7s =	2	min

Hour	Frequency	HGV7							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (HGV7)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.234E+00	1.035E+00	4.104E-02	3.804E-02	6.205E-04	2.875E-04	1.140E-05	1.057E-05
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	4.604E-01	2.133E-01	1.368E-02	1.268E-02	1.279E-04	5.926E-05	3.800E-06	3.522E-06
1500 - 1600	3.130E+00	1.450E+00	6.839E-02	6.339E-02	8.695E-04	4.028E-04	1.900E-05	1.761E-05
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	4.251E-01	1.965E-01	1.368E-02	1.268E-02	1.181E-04	5.457E-05	3.800E-06	3.522E-06
1800 - 1900	8.436E-01	3.898E-01	2.736E-02	2.536E-02	2.343E-04	1.083E-04	7.599E-06	7.044E-06
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (HGV8_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	1.081E-01	1.947E-01	2.595E-01	3.676E-01	4.541E-01	6.055E-01	8.866E-01	1.103E+00	1.622E+00	2.119E+00	2.379E+00	2.811E+00	3.092E+00	3.244E+00	3.330E+00	3.417E+00	3.460E+00	3.460E+00
NO_2	3.700E-02	6.650E-02	8.870E-02	1.257E-01	1.553E-01	2.070E-01	3.032E-01	3.771E-01	5.545E-01	7.246E-01	8.133E-01	9.612E-01	1.057E+00	1.109E+00	1.139E+00	1.168E+00	1.183E+00	1.183E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of HGV8**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
4.541E-01	1.553E-01	0.000E+00	0.000E+00
1.622E+00	5.545E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.595E-01	8.870E-02	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (HGV8_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV8s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV8 (Diesel)									HGV8 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	9.270E-02	3.573E-02	9.087E-04	9.087E-04
0900 - 1000	1.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	5.242E-01	2.020E-01	9.087E-04	9.087E-04	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	9.270E-02	3.573E-02	9.087E-04	9.087E-04
1200 - 1300	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	9.270E-02	3.573E-02	9.087E-04	9.087E-04	4.635E-02	1.787E-02	4.543E-04	4.543E-04	5.825E-02	1.963E-02	0.000E+00	0.000E+00	3.495E-01	1.178E-01	0.000E+00	0.000E+00	9.708E-05	3.272E-05	0.000E+00	0.000E+00
0900 - 1000	5.242E-01	2.020E-01	9.087E-04	9.087E-04	2.621E-01	1.010E-01	4.543E-04	4.543E-04	1.943E-01	6.478E-02	0.000E+00	0.000E+00	1.166E+00	3.887E-01	0.000E+00	0.000E+00	3.238E-04	1.080E-04	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	9.270E-02	3.573E-02	9.087E-04	9.087E-04	4.635E-02	1.787E-02	4.543E-04	4.543E-04	3.045E-02	1.012E-02	0.000E+00	0.000E+00	1.827E-01	6.072E-02	0.000E+00	0.000E+00	5.075E-05	1.687E-05	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (HGV8)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	HGV8								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	6.587E-01	2.539E-01	2.400E-02	2.208E-02
0900 - 1000	1.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	6.587E-01	2.539E-01	2.400E-02	2.208E-02
1000 - 1100	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	6.587E-01	2.539E-01	2.400E-02	2.208E-02
1200 - 1300	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV8s =	2	min

Hour	HGV8								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (HGV8)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	8.096E-01	3.093E-01	2.491E-02	2.299E-02	2.249E-04	8.591E-05	6.919E-06	6.386E-06
0900 - 1000	1.377E+00	5.207E-01	2.491E-02	2.299E-02	3.825E-04	1.446E-04	6.919E-06	6.386E-06
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	7.818E-01	2.997E-01	2.491E-02	2.299E-02	2.172E-04	8.326E-05	6.919E-06	6.386E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (HGV9_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	1.153E-01	2.076E-01	2.768E-01	3.922E-01	4.844E-01	6.460E-01	9.458E-01	1.177E+00	1.730E+00	2.261E+00	2.538E+00	2.999E+00	3.299E+00	3.461E+00	3.553E+00	3.645E+00	3.691E+00	3.691E+00
NO_2	3.580E-02	6.440E-02	8.590E-02	1.216E-01	1.503E-01	2.003E-01	2.934E-01	3.649E-01	5.366E-01	7.012E-01	7.870E-01	9.301E-01	1.023E+00	1.073E+00	1.102E+00	1.131E+00	1.145E+00	1.145E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	No. of Cold Starts of HGV9																		Total Starting Emission (g)			
Sitting Time (min)	5	10	20	30	40	50	60	120	180	240	300	360	420	480	540	600	660	720	NO	NO_2	RSP	FSP
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.076E-01	6.440E-02	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.768E-01	8.590E-02	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.460E-01	2.003E-01	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.458E-01	2.934E-01	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.922E-01	1.216E-01	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (HGV9_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV9s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV9 (Diesel)									HGV9 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	1.274E-01	4.514E-02	1.256E-03	1.256E-03
0900 - 1000	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	1.274E-01	4.514E-02	1.256E-03	1.256E-03
1100 - 1200	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	1.274E-01	4.514E-02	1.256E-03	1.256E-03
1200 - 1300	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	5.969E-01	2.115E-01	1.256E-03	1.256E-03	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	1.274E-01	4.514E-02	1.256E-03	1.256E-03
2200 - 2300	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.274E-01	4.514E-02	1.256E-03	1.256E-03	6.368E-02	2.257E-02	6.282E-04	6.282E-04	2.056E-02	5.976E-03	0.000E+00	0.000E+00	1.234E-01	3.586E-02	0.000E+00	0.000E+00	3.427E-05	9.960E-06	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.274E-01	4.514E-02	1.256E-03	1.256E-03	6.368E-02	2.257E-02	6.282E-04	6.282E-04	3.045E-02	9.047E-03	0.000E+00	0.000E+00	1.827E-01	5.428E-02	0.000E+00	0.000E+00	5.074E-05	1.508E-05	0.000E+00	0.000E+00
1100 - 1200	1.274E-01	4.514E-02	1.256E-03	1.256E-03	6.368E-02	2.257E-02	6.282E-04	6.282E-04	8.319E-02	2.539E-02	0.000E+00	0.000E+00	4.991E-01	1.523E-01	0.000E+00	0.000E+00	1.386E-04	4.232E-05	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	5.969E-01	2.115E-01	1.256E-03	1.256E-03	2.984E-01	1.058E-01	6.282E-04	6.282E-04	9.248E-02	2.680E-02	0.000E+00	0.000E+00	5.549E-01	1.608E-01	0.000E+00	0.000E+00	1.541E-04	4.467E-05	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	1.274E-01	4.514E-02	1.256E-03	1.256E-03	6.368E-02	2.257E-02	6.282E-04	6.282E-04	4.693E-02	1.415E-02	0.000E+00	0.000E+00	2.816E-01	8.488E-02	0.000E+00	0.000E+00	7.822E-05	2.358E-05	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (HGV9)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV9							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	7.263E-01	2.574E-01	2.660E-02	2.448E-02
0900 - 1000	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	7.263E-01	2.574E-01	2.660E-02	2.448E-02
1100 - 1200	1.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	7.263E-01	2.574E-01	2.660E-02	2.448E-02
1200 - 1300	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	7.263E-01	2.574E-01	2.660E-02	2.448E-02
1700 - 1800	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	1.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	7.263E-01	2.574E-01	2.660E-02	2.448E-02
2200 - 2300	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV9s =	2	min

Hour	Frequency	HGV9							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mai Po Warehouse (米埔物流倉) (HGV9)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	8.742E-01	3.085E-01	2.786E-02	2.574E-02	2.428E-04	8.570E-05	7.738E-06	7.149E-06
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	8.841E-01	3.116E-01	2.786E-02	2.574E-02	2.456E-04	8.655E-05	7.738E-06	7.149E-06
1100 - 1200	9.368E-01	3.279E-01	2.786E-02	2.574E-02	2.602E-04	9.109E-05	7.738E-06	7.149E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.416E+00	4.957E-01	2.786E-02	2.574E-02	3.932E-04	1.377E-04	7.738E-06	7.149E-06
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	9.006E-01	3.167E-01	2.786E-02	2.574E-02	2.502E-04	8.797E-05	7.738E-06	7.149E-06
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (PC_Diesel)

Starting Emission

No. of PC(Diesel) to No. of PC (Petrol) Ratio =		0.02

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of PC_Diesel**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.07	0.00	0.03	0.00	0.00	0.05	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.03
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (PC_Diesel)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	PC (Diesel)									PC (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.03	4.752E-02	6.098E-03	8.116E-04	8.116E-04	3.115E-03	3.997E-04	5.320E-05	5.320E-05	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.03	4.752E-02	6.098E-03	8.116E-04	8.116E-04	3.115E-03	3.997E-04	5.320E-05	5.320E-05	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.07	4.752E-02	6.098E-03	8.116E-04	8.116E-04	6.230E-03	7.995E-04	1.064E-04	1.064E-04	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	4.752E-02	6.098E-03	8.116E-04	8.116E-04	3.115E-03	3.997E-04	5.320E-05	5.320E-05
1800 - 1900	0.08	4.752E-02	6.098E-03	8.116E-04	8.116E-04	7.788E-03	9.993E-04	1.330E-04	1.330E-04	0.10	4.752E-02	6.098E-03	8.116E-04	8.116E-04	9.345E-03	1.199E-03	1.596E-04	1.596E-04
1900 - 2000	0.03	4.752E-02	6.098E-03	8.116E-04	8.116E-04	3.115E-03	3.997E-04	5.320E-05	5.320E-05	0.03	4.752E-02	6.098E-03	8.116E-04	8.116E-04	3.115E-03	3.997E-04	5.320E-05	5.320E-05
2000 - 2100	0.07	4.752E-02	6.098E-03	8.116E-04	8.116E-04	6.230E-03	7.995E-04	1.064E-04	1.064E-04	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	3.115E-03	3.997E-04	5.320E-05	5.320E-05	1.558E-03	1.999E-04	2.660E-05	2.660E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	3.115E-03	3.997E-04	5.320E-05	5.320E-05	1.558E-03	1.999E-04	2.660E-05	2.660E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	6.230E-03	7.995E-04	1.064E-04	1.064E-04	3.115E-03	3.997E-04	5.320E-05	5.320E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	3.115E-03	3.997E-04	5.320E-05	5.320E-05	1.558E-03	1.999E-04	2.660E-05	2.660E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.713E-02	2.199E-03	2.926E-04	2.926E-04	8.566E-03	1.099E-03	1.463E-04	1.463E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	6.230E-03	7.995E-04	1.064E-04	1.064E-04	3.115E-03	3.997E-04	5.320E-05	5.320E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	6.230E-03	7.995E-04	1.064E-04	1.064E-04	3.115E-03	3.997E-04	5.320E-05	5.320E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (PC_Petrol)

Starting Emission

No. of PC(Diesel) to No. of PC (Petrol) Ratio =		0.02

	Starting Emission Factor (g/trip)																	
NO	5.793E-02	5.914E-02	6.114E-02	6.315E-02	6.495E-02	6.675E-02	6.845E-02	7.606E-02	8.646E-02	8.565E-02	8.455E-02	8.275E-02	8.065E-02	7.794E-02	7.494E-02	7.123E-02	6.713E-02	6.252E-02
NO_2	3.102E-03	3.102E-03	3.202E-03	3.302E-03	3.403E-03	3.503E-03	3.603E-03	4.003E-03	4.503E-03	4.503E-03	4.403E-03	4.403E-03	4.202E-03	4.102E-03	3.902E-03	3.702E-03	3.502E-03	3.301E-03
RSP	4.010E-04	8.009E-04	1.501E-03	2.300E-03	3.000E-03	3.600E-03	4.300E-03	7.101E-03	7.901E-03	8.701E-03	9.302E-03	9.902E-03	1.040E-02	1.080E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.008E-04	7.007E-04	1.401E-03	2.100E-03	2.700E-03	3.400E-03	4.000E-03	6.600E-03	7.401E-03	8.101E-03	8.701E-03	9.201E-03	9.601E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	**No. of Cold Starts of PC_Petrol**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	3.93	0.00	1.97	0.00	0.00	2.95	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	1.97	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	0.00	1.97
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.321E-01	6.888E-03	2.223E-02	2.066E-02
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.347E-01	7.088E-03	8.459E-03	7.869E-03
0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.313E-01	1.752E-02	3.660E-02	3.404E-02
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.140E-01	6.102E-03	7.889E-04	7.884E-04
7.613E-01	3.996E-02	4.988E-02	4.624E-02
2.738E-01	1.437E-02	1.849E-02	1.712E-02
2.631E-01	1.378E-02	4.427E-02	4.112E-02
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (PC_Petrol)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	PC (Petrol)									PC (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.97	1.393E-03	7.348E-05	2.448E-05	2.448E-05	5.480E-03	2.891E-04	9.631E-05	9.631E-05	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.97	1.393E-03	7.348E-05	2.448E-05	2.448E-05	5.480E-03	2.891E-04	9.631E-05	9.631E-05
1200 - 1300	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	3.93	1.393E-03	7.348E-05	2.448E-05	2.448E-05	1.096E-02	5.782E-04	1.926E-04	1.926E-04	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.97	1.393E-03	7.348E-05	2.448E-05	2.448E-05	5.480E-03	2.891E-04	9.631E-05	9.631E-05
1800 - 1900	1.97	1.393E-03	7.348E-05	2.448E-05	2.448E-05	5.480E-03	2.891E-04	9.631E-05	9.631E-05	8.85	1.393E-03	7.348E-05	2.448E-05	2.448E-05	2.466E-02	1.301E-03	4.334E-04	4.334E-04
1900 - 2000	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.93	1.393E-03	7.348E-05	2.448E-05	2.448E-05	1.096E-02	5.782E-04	1.926E-04	1.926E-04
2000 - 2100	3.93	1.393E-03	7.348E-05	2.448E-05	2.448E-05	1.096E-02	5.782E-04	1.926E-04	1.926E-04	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	5.480E-03	2.891E-04	9.631E-05	9.631E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.321E-01	6.888E-03	2.223E-02	2.066E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	5.480E-03	2.891E-04	9.631E-05	9.631E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.347E-01	7.088E-03	8.459E-03	7.869E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.096E-02	5.782E-04	1.926E-04	1.926E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.313E-01	1.752E-02	3.660E-02	3.404E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	5.480E-03	2.891E-04	9.631E-05	9.631E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.140E-01	6.102E-03	7.889E-04	7.884E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	3.014E-02	1.590E-03	5.297E-04	5.297E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.613E-01	3.996E-02	4.988E-02	4.624E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	1.096E-02	5.782E-04	1.926E-04	1.926E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.738E-01	1.437E-02	1.849E-02	1.712E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.096E-02	5.782E-04	1.926E-04	1.926E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.631E-01	1.378E-02	4.427E-02	4.112E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (PC)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	PC								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	3.552E-02	1.920E-03	7.680E-03	7.120E-03
0700 - 0800	2.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	3.552E-02	1.920E-03	7.680E-03	7.120E-03
0800 - 0900	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	2.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	3.552E-02	1.920E-03	7.680E-03	7.120E-03
1100 - 1200	2.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	3.552E-02	1.920E-03	7.680E-03	7.120E-03
1200 - 1300	2.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	3.552E-02	1.920E-03	7.680E-03	7.120E-03
1300 - 1400	6.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	1.066E-01	5.760E-03	2.304E-02	2.136E-02
1400 - 1500	2.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	3.552E-02	1.920E-03	7.680E-03	7.120E-03
1500 - 1600	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	3.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	5.328E-02	2.880E-03	1.152E-02	1.068E-02
1700 - 1800	4.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	7.104E-02	3.840E-03	1.536E-02	1.424E-02
1800 - 1900	11.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	1.954E-01	1.056E-02	4.224E-02	3.916E-02
1900 - 2000	4.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	7.104E-02	3.840E-03	1.536E-02	1.424E-02
2000 - 2100	4.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	7.104E-02	3.840E-03	1.536E-02	1.424E-02
2100 - 2200	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of PC(Diesel) to No. of PC (Petrol) Ratio [1] =	0.02	
Idling Time for Non-terminating PCs =	0.5	min

Hour	PC (Diesel)									PC (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.03	4.752E-02	6.098E-03	8.116E-04	8.116E-04	7.788E-04	9.993E-05	1.330E-05	1.330E-05	2	1.393E-03	7.348E-05	2.448E-05	2.448E-05	1.370E-03	7.227E-05	2.408E-05	2.408E-05
0800 - 0900	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.03	4.752E-02	6.098E-03	8.116E-04	8.116E-04	7.788E-04	9.993E-05	1.330E-05	1.330E-05	2	1.393E-03	7.348E-05	2.448E-05	2.448E-05	1.370E-03	7.227E-05	2.408E-05	2.408E-05
1100 - 1200	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.03	4.752E-02	6.098E-03	8.116E-04	8.116E-04	7.788E-04	9.993E-05	1.330E-05	1.330E-05	2	1.393E-03	7.348E-05	2.448E-05	2.448E-05	1.370E-03	7.227E-05	2.408E-05	2.408E-05
1300 - 1400	0.03	4.752E-02	6.098E-03	8.116E-04	8.116E-04	7.788E-04	9.993E-05	1.330E-05	1.330E-05	2	1.393E-03	7.348E-05	2.448E-05	2.448E-05	1.370E-03	7.227E-05	2.408E-05	2.408E-05
1400 - 1500	0.03	4.752E-02	6.098E-03	8.116E-04	8.116E-04	7.788E-04	9.993E-05	1.330E-05	1.330E-05	2	1.393E-03	7.348E-05	2.448E-05	2.448E-05	1.370E-03	7.227E-05	2.408E-05	2.408E-05
1500 - 1600	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.05	4.752E-02	6.098E-03	8.116E-04	8.116E-04	1.168E-03	1.499E-04	1.995E-05	1.995E-05	3	1.393E-03	7.348E-05	2.448E-05	2.448E-05	2.055E-03	1.084E-04	3.612E-05	3.612E-05
1700 - 1800	0.03	4.752E-02	6.098E-03	8.116E-04	8.116E-04	7.788E-04	9.993E-05	1.330E-05	1.330E-05	2	1.393E-03	7.348E-05	2.448E-05	2.448E-05	1.370E-03	7.227E-05	2.408E-05	2.408E-05
1800 - 1900	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of PC (Diesel) to PC (Petrol) was extracted from Year 2031 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (PC)

Total Hourly Emission

	Emission Within Carpark							
Hour	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.762E-01	9.497E-03	3.006E-02	2.793E-02	4.894E-05	2.638E-06	8.351E-06	7.758E-06
0700 - 0800	3.767E-02	2.092E-03	7.717E-03	7.157E-03	1.046E-05	5.812E-07	2.144E-06	1.988E-06
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	3.767E-02	2.092E-03	7.717E-03	7.157E-03	1.046E-05	5.812E-07	2.144E-06	1.988E-06
1100 - 1200	1.788E-01	9.696E-03	1.629E-02	1.514E-02	4.966E-05	2.693E-06	4.525E-06	4.205E-06
1200 - 1300	3.767E-02	2.092E-03	7.717E-03	7.157E-03	1.046E-05	5.812E-07	2.144E-06	1.988E-06
1300 - 1400	4.572E-01	2.483E-02	5.997E-02	5.573E-02	1.270E-04	6.897E-06	1.666E-05	1.548E-05
1400 - 1500	3.767E-02	2.092E-03	7.717E-03	7.157E-03	1.046E-05	5.812E-07	2.144E-06	1.988E-06
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	5.650E-02	3.138E-03	1.158E-02	1.074E-02	1.570E-05	8.718E-07	3.216E-06	2.982E-06
1700 - 1800	1.958E-01	1.080E-02	1.634E-02	1.522E-02	5.438E-05	3.001E-06	4.538E-06	4.226E-06
1800 - 1900	1.004E+00	5.431E-02	9.294E-02	8.622E-02	2.789E-04	1.509E-05	2.582E-05	2.395E-05
1900 - 2000	3.621E-01	1.959E-02	3.415E-02	3.166E-02	1.006E-04	5.441E-06	9.487E-06	8.793E-06
2000 - 2100	3.514E-01	1.899E-02	5.993E-02	5.566E-02	9.760E-05	5.276E-06	1.665E-05	1.546E-05
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (Taxi_LPG)

Starting Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio =		18055.56

	Starting Emission Factor (g/trip)																	
NO	1.033E+00	1.050E+00	1.083E+00	1.116E+00	1.147E+00	1.177E+00	1.206E+00	1.342E+00	1.525E+00	1.512E+00	1.491E+00	1.461E+00	1.423E+00	1.376E+00	1.320E+00	1.256E+00	1.183E+00	1.101E+00
NO_2	2.900E-02	2.950E-02	3.040E-02	3.130E-02	3.220E-02	3.300E-02	3.380E-02	3.770E-02	4.280E-02	4.240E-02	4.180E-02	4.100E-02	3.990E-02	3.860E-02	3.700E-02	3.520E-02	3.320E-02	3.090E-02
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of Taxi_LPG**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	**Total Starting Emission (g)**			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (Taxi_LPG)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (LPG)									Taxi (LPG)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (Taxi_Petrol)

Starting Emission

No. of Taxi(LPG) to No. of Taxi (Petrol) Ratio =		18055.56

	Starting Emission Factor (g/trip)																	
NO	7.790E-02	7.910E-02	8.170E-02	8.420E-02	8.640E-02	8.870E-02	9.090E-02	1.013E-01	1.149E-01	1.140E-01	1.125E-01	1.102E-01	1.073E-01	1.037E-01	9.960E-02	9.470E-02	8.920E-02	8.300E-02
NO_2	4.100E-03	4.200E-03	4.300E-03	4.400E-03	4.600E-03	4.700E-03	4.800E-03	5.300E-03	6.100E-03	6.000E-03	5.900E-03	5.800E-03	5.600E-03	5.500E-03	5.200E-03	5.000E-03	4.700E-03	4.400E-03
RSP	4.000E-04	8.000E-04	1.500E-03	2.300E-03	3.000E-03	3.600E-03	4.200E-03	7.000E-03	7.900E-03	8.700E-03	9.300E-03	9.900E-03	1.040E-02	1.070E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.000E-04	7.000E-04	1.400E-03	2.100E-03	2.700E-03	3.400E-03	3.900E-03	6.500E-03	7.300E-03	8.000E-03	8.700E-03	9.200E-03	9.600E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	**No. of Cold Starts of Taxi_Petrol**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (Taxi_Petrol)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (Petrol)									Taxi (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (Taxi)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	Taxi								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	8.351E-01	2.344E-02	0.000E+00	0.000E+00
1900 - 2000	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio [1] =	18055.56	
Idling Time for Non-terminating Taxi =	0.5	min

Hour	Taxi (LPG)									Taxi (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	2.126E-01	5.966E-03	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	9.126E-08	4.735E-09	1.200E-08	1.200E-08
1900 - 2000	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of Taxi(LPG) toTaxi (Petrol) was extracted from Year 2031 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (Taxi)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.048E+00	2.941E-02	1.200E-08	1.200E-08	2.910E-04	8.168E-06	3.333E-12	3.333E-12
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (LGV3_Diesel)

Starting Emission

No. of LGV3(Diesel) to No. of LGV3 (Petrol) Ratio =		28.33

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of LGV3_Diesel**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (LGV3_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV3 (Diesel)									LGV3 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.93	2.956E-02	2.142E-03	4.333E-04	4.333E-04	1.142E-01	8.278E-03	1.674E-03	1.674E-03
1500 - 1600	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.93	2.956E-02	2.142E-03	4.333E-04	4.333E-04	1.142E-01	8.278E-03	1.674E-03	1.674E-03
1800 - 1900	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.142E-01	8.278E-03	1.674E-03	1.674E-03	5.710E-02	4.139E-03	8.371E-04	8.371E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.142E-01	8.278E-03	1.674E-03	1.674E-03	5.710E-02	4.139E-03	8.371E-04	8.371E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (LGV3_Petrol)

Starting Emission

No. of LGV3(Diesel) to No. of LGV3 (Petrol) Ratio =		28.33

	Starting Emission Factor (g/trip)																	
NO	1.249E-01	1.411E-01	1.702E-01	1.947E-01	2.146E-01	2.299E-01	2.407E-01	2.577E-01	2.647E-01	2.594E-01	2.526E-01	2.443E-01	2.346E-01	2.232E-01	2.103E-01	1.961E-01	1.804E-01	1.631E-01
NO_2	6.600E-03	7.443E-03	8.967E-03	1.021E-02	1.127E-02	1.215E-02	1.265E-02	1.358E-02	1.397E-02	1.364E-02	1.325E-02	1.290E-02	1.230E-02	1.173E-02	1.111E-02	1.034E-02	9.505E-03	8.614E-03
RSP	2.676E-03	2.581E-03	2.462E-03	2.333E-03	2.390E-03	2.348E-03	2.490E-03	4.248E-03	5.352E-03	6.267E-03	7.086E-03	7.805E-03	8.524E-03	9.052E-03	9.481E-03	9.814E-03	9.952E-03	1.009E-02
FSP	2.067E-03	2.043E-03	1.952E-03	2.019E-03	2.062E-03	2.076E-03	2.252E-03	3.671E-03	4.552E-03	5.267E-03	5.910E-03	6.476E-03	6.971E-03	7.390E-03	7.738E-03	8.014E-03	8.214E-03	8.343E-03

Hour	**No. of Cold Starts of LGV3_Petrol**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
9.620E-03	5.075E-04	1.760E-04	1.393E-04
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.515E-03	4.500E-04	1.825E-04	1.409E-04
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (LGV3_Petrol)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	LGV3 (Petrol)									LGV3 (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.07	2.550E-03	1.340E-04	1.224E-05	1.224E-05	3.477E-04	1.827E-05	1.668E-06	1.668E-06
1500 - 1600	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.07	2.550E-03	1.340E-04	1.224E-05	1.224E-05	3.477E-04	1.827E-05	1.668E-06	1.668E-06
1800 - 1900	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	3.477E-04	1.827E-05	1.668E-06	1.668E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.620E-03	5.075E-04	1.760E-04	1.393E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	3.477E-04	1.827E-05	1.668E-06	1.668E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.515E-03	4.500E-04	1.825E-04	1.409E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (LGV3)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	LGV3								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	1.340E+00	9.696E-02	1.288E-02	1.184E-02
0700 - 0800	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	3.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	2.010E+00	1.454E-01	1.932E-02	1.776E-02
1000 - 1100	2.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	1.340E+00	9.696E-02	1.288E-02	1.184E-02
1100 - 1200	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	2.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	1.340E+00	9.696E-02	1.288E-02	1.184E-02
1500 - 1600	2.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	1.340E+00	9.696E-02	1.288E-02	1.184E-02
1600 - 1700	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	2.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	1.340E+00	9.696E-02	1.288E-02	1.184E-02
1800 - 1900	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	1.340E+00	9.696E-02	1.288E-02	1.184E-02
2100 - 2200	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of LGV3(Diesel) to No. of LGV3 (Petrol) Ratio [1] =	28.33	
Idling Time for Non-terminating LGV3s =	0.5	min

Hour	LGV3 (Diesel)									LGV3 (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.93	2.956E-02	2.142E-03	4.333E-04	4.333E-04	2.855E-02	2.069E-03	4.186E-04	4.186E-04	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	8.693E-05	4.568E-06	4.171E-07	4.171E-07
0700 - 0800	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.90	2.956E-02	2.142E-03	4.333E-04	4.333E-04	4.282E-02	3.104E-03	6.278E-04	6.278E-04	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	1.304E-04	6.853E-06	6.257E-07	6.257E-07
1000 - 1100	1.93	2.956E-02	2.142E-03	4.333E-04	4.333E-04	2.855E-02	2.069E-03	4.186E-04	4.186E-04	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	8.693E-05	4.568E-06	4.171E-07	4.171E-07
1100 - 1200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	1.93	2.956E-02	2.142E-03	4.333E-04	4.333E-04	2.855E-02	2.069E-03	4.186E-04	4.186E-04	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	8.693E-05	4.568E-06	4.171E-07	4.171E-07
1600 - 1700	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.93	2.956E-02	2.142E-03	4.333E-04	4.333E-04	2.855E-02	2.069E-03	4.186E-04	4.186E-04	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	8.693E-05	4.568E-06	4.171E-07	4.171E-07
2100 - 2200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of LGV3(Diesel) to LGV3 (Petrol) was extracted from Year 2031 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (LGV3)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.368E+00	9.903E-02	1.330E-02	1.226E-02	3.801E-04	2.751E-05	3.694E-06	3.405E-06
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.053E+00	1.486E-01	1.995E-02	1.839E-02	5.702E-04	4.126E-05	5.541E-06	5.108E-06
1000 - 1100	1.368E+00	9.903E-02	1.330E-02	1.226E-02	3.801E-04	2.751E-05	3.694E-06	3.405E-06
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.464E+00	1.058E-01	1.473E-02	1.366E-02	4.066E-04	2.938E-05	4.092E-06	3.793E-06
1500 - 1600	1.368E+00	9.903E-02	1.330E-02	1.226E-02	3.801E-04	2.751E-05	3.694E-06	3.405E-06
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.463E+00	1.057E-01	1.474E-02	1.366E-02	4.063E-04	2.936E-05	4.094E-06	3.794E-06
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.368E+00	9.903E-02	1.330E-02	1.226E-02	3.801E-04	2.751E-05	3.694E-06	3.405E-06
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (LGV6_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	4.440E-02	8.000E-02	1.067E-01	1.511E-01	1.867E-01	2.490E-01	3.645E-01	4.535E-01	6.668E-01	8.713E-01	9.780E-01	1.156E+00	1.271E+00	1.334E+00	1.369E+00	1.405E+00	1.423E+00	1.423E+00
NO_2	1.730E-02	3.110E-02	4.150E-02	5.880E-02	7.260E-02	9.680E-02	1.418E-01	1.763E-01	2.593E-01	3.388E-01	3.803E-01	4.495E-01	4.944E-01	5.186E-01	5.325E-01	5.463E-01	5.532E-01	5.532E-01
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of LGV6**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.667E+00	1.037E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.600E-01	6.220E-02	0.000E+00	0.000E+00
7.290E-01	2.836E-01	0.000E+00	0.000E+00
1.332E-01	5.190E-02	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
7.290E-01	2.836E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.472E+00	9.612E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.134E-01	8.300E-02	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.810E+00	1.093E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (LGV6_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV6s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV6 (Diesel)									LGV6 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	2.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	2.185E-01	8.497E-02	1.811E-03	1.811E-03	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	1.804E-01	7.017E-02	1.811E-03	1.811E-03
1000 - 1100	2.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	2.185E-01	8.497E-02	1.811E-03	1.811E-03	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	2.707E-01	1.053E-01	2.717E-03	2.717E-03
1200 - 1300	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	2.185E-01	8.497E-02	1.811E-03	1.811E-03	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	4.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	4.370E-01	1.699E-01	3.622E-03	3.622E-03	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	1.804E-01	7.017E-02	1.811E-03	1.811E-03
1800 - 1900	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	2.185E-01	8.497E-02	1.811E-03	1.811E-03	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	2.185E-01	8.497E-02	1.811E-03	1.811E-03	1.092E-01	4.248E-02	9.056E-04	9.056E-04	7.309E-01	2.842E-01	0.000E+00	0.000E+00	1.827E+00	7.105E-01	0.000E+00	0.000E+00	5.076E-04	1.974E-04	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.804E-01	7.017E-02	1.811E-03	1.811E-03	9.022E-02	3.509E-02	9.056E-04	9.056E-04	1.994E-02	7.747E-03	0.000E+00	0.000E+00	4.984E-02	1.937E-02	0.000E+00	0.000E+00	1.385E-05	5.380E-06	0.000E+00	0.000E+00
1000 - 1100	2.185E-01	8.497E-02	1.811E-03	1.811E-03	1.092E-01	4.248E-02	9.056E-04	9.056E-04	1.771E-01	6.889E-02	0.000E+00	0.000E+00	4.427E-01	1.722E-01	0.000E+00	0.000E+00	1.230E-04	4.784E-05	0.000E+00	0.000E+00
1100 - 1200	2.707E-01	1.053E-01	2.717E-03	2.717E-03	1.353E-01	5.263E-02	1.358E-03	1.358E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.185E-01	8.497E-02	1.811E-03	1.811E-03	1.092E-01	4.248E-02	9.056E-04	9.056E-04	1.771E-01	6.889E-02	0.000E+00	0.000E+00	4.427E-01	1.722E-01	0.000E+00	0.000E+00	1.230E-04	4.784E-05	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	4.370E-01	1.699E-01	3.622E-03	3.622E-03	2.185E-01	8.497E-02	1.811E-03	1.811E-03	6.437E-01	2.504E-01	0.000E+00	0.000E+00	1.609E+00	6.259E-01	0.000E+00	0.000E+00	4.470E-04	1.739E-04	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.804E-01	7.017E-02	1.811E-03	1.811E-03	9.022E-02	3.509E-02	9.056E-04	9.056E-04	3.519E-02	1.369E-02	0.000E+00	0.000E+00	8.799E-02	3.422E-02	0.000E+00	0.000E+00	2.444E-05	9.507E-06	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.185E-01	8.497E-02	1.811E-03	1.811E-03	1.092E-01	4.248E-02	9.056E-04	9.056E-04	7.715E-01	3.000E-01	0.000E+00	0.000E+00	1.929E+00	7.501E-01	0.000E+00	0.000E+00	5.358E-04	2.084E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (LGV6)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	Frequency	LGV6							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	2.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	8.082E-01	3.143E-01	2.688E-02	2.480E-02
0800 - 0900	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	8.082E-01	3.143E-01	2.688E-02	2.480E-02
1000 - 1100	2.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	8.082E-01	3.143E-01	2.688E-02	2.480E-02
1100 - 1200	5.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	2.021E+00	7.858E-01	6.720E-02	6.200E-02
1200 - 1300	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	4.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	1.616E+00	6.286E-01	5.376E-02	4.960E-02
1400 - 1500	2.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	8.082E-01	3.143E-01	2.688E-02	2.480E-02
1500 - 1600	4.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	1.616E+00	6.286E-01	5.376E-02	4.960E-02
1600 - 1700	2.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	8.082E-01	3.143E-01	2.688E-02	2.480E-02
1700 - 1800	2.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	8.082E-01	3.143E-01	2.688E-02	2.480E-02
1800 - 1900	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	8.082E-01	3.143E-01	2.688E-02	2.480E-02
2100 - 2200	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating LGV6s =	2	min

Hour	Frequency	LGV6							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	2.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	1.804E-01	7.017E-02	1.811E-03	1.811E-03
1200 - 1300	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	1.804E-01	7.017E-02	1.811E-03	1.811E-03
1400 - 1500	2.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	1.804E-01	7.017E-02	1.811E-03	1.811E-03
1500 - 1600	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	1.804E-01	7.017E-02	1.811E-03	1.811E-03
1700 - 1800	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (LGV6)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.758E+00	6.835E-01	2.869E-02	2.661E-02	4.882E-04	1.899E-04	7.970E-06	7.392E-06
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.009E+00	3.922E-01	2.869E-02	2.661E-02	2.802E-04	1.090E-04	7.970E-06	7.392E-06
1000 - 1100	1.204E+00	4.682E-01	2.869E-02	2.661E-02	3.344E-04	1.300E-04	7.970E-06	7.392E-06
1100 - 1200	2.472E+00	9.612E-01	7.173E-02	6.653E-02	6.866E-04	2.670E-04	1.992E-05	1.848E-05
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.192E+00	8.527E-01	5.738E-02	5.322E-02	6.090E-04	2.369E-04	1.594E-05	1.478E-05
1400 - 1500	9.887E-01	3.845E-01	2.869E-02	2.661E-02	2.746E-04	1.068E-04	7.970E-06	7.392E-06
1500 - 1600	2.697E+00	1.049E+00	5.738E-02	5.322E-02	7.492E-04	2.914E-04	1.594E-05	1.478E-05
1600 - 1700	9.887E-01	3.845E-01	2.869E-02	2.661E-02	2.746E-04	1.068E-04	7.970E-06	7.392E-06
1700 - 1800	1.024E+00	3.982E-01	2.869E-02	2.661E-02	2.844E-04	1.106E-04	7.970E-06	7.392E-06
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.798E+00	6.993E-01	2.869E-02	2.661E-02	4.995E-04	1.943E-04	7.970E-06	7.392E-06
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (HGV7_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	7.730E-02	1.391E-01	1.855E-01	2.627E-01	3.246E-01	4.328E-01	6.336E-01	7.882E-01	1.159E+00	1.515E+00	1.700E+00	2.009E+00	2.210E+00	2.318E+00	2.380E+00	2.442E+00	2.473E+00	2.473E+00
NO_2	3.690E-02	6.640E-02	8.860E-02	1.255E-01	1.550E-01	2.067E-01	3.027E-01	3.765E-01	5.537E-01	7.235E-01	8.121E-01	9.598E-01	1.056E+00	1.108E+00	1.137E+00	1.167E+00	1.181E+00	1.181E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of HGV7**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	4.945E+00	2.363E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	1.236E+01	5.907E+00	0.000E+00	0.000E+00
0900 - 1000	2.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	2.00	1.054E+01	5.035E+00	0.000E+00	0.000E+00
1000 - 1100	2.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.427E-01	4.503E-01	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.144E+00	5.462E-01	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	6.105E+00	2.916E+00	0.000E+00	0.000E+00
1500 - 1600	3.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.499E+00	7.161E-01	0.000E+00	0.000E+00
1600 - 1700	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.800E-01	3.248E-01	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.175E+00	5.610E-01	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (HGV7_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV7s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV7 (Diesel)									HGV7 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	2.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	9.691E-01	4.469E-01	1.917E-03	1.917E-03	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	5.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	2.423E+00	1.117E+00	4.794E-03	4.794E-03	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	4.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	1.938E+00	8.937E-01	3.835E-03	3.835E-03	5.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	4.489E-01	2.070E-01	4.794E-03	4.794E-03
1000 - 1100	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	4.489E-01	2.070E-01	4.794E-03	4.794E-03
1100 - 1200	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	3.592E-01	1.656E-01	3.835E-03	3.835E-03
1400 - 1500	2.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	9.691E-01	4.469E-01	1.917E-03	1.917E-03	5.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	4.489E-01	2.070E-01	4.794E-03	4.794E-03
1500 - 1600	2.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	9.691E-01	4.469E-01	1.917E-03	1.917E-03	3.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	2.694E-01	1.242E-01	2.876E-03	2.876E-03
1600 - 1700	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	3.592E-01	1.656E-01	3.835E-03	3.835E-03
1700 - 1800	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	3.592E-01	1.656E-01	3.835E-03	3.835E-03
1900 - 2000	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	9.691E-01	4.469E-01	1.917E-03	1.917E-03	4.846E-01	2.234E-01	9.587E-04	9.587E-04	1.275E+00	6.112E-01	0.000E+00	0.000E+00	3.186E+00	1.528E+00	0.000E+00	0.000E+00	8.851E-04	4.244E-04	0.000E+00	0.000E+00
0800 - 0900	2.423E+00	1.117E+00	4.794E-03	4.794E-03	1.211E+00	5.586E-01	2.397E-03	2.397E-03	3.186E+00	1.528E+00	0.000E+00	0.000E+00	7.966E+00	3.820E+00	0.000E+00	0.000E+00	2.213E-03	1.061E-03	0.000E+00	0.000E+00
0900 - 1000	2.387E+00	1.101E+00	8.629E-03	8.629E-03	1.194E+00	5.504E-01	4.314E-03	4.314E-03	2.670E+00	1.281E+00	0.000E+00	0.000E+00	6.676E+00	3.203E+00	0.000E+00	0.000E+00	1.854E-03	8.898E-04	0.000E+00	0.000E+00
1000 - 1100	4.489E-01	2.070E-01	4.794E-03	4.794E-03	2.245E-01	1.035E-01	2.397E-03	2.397E-03	2.052E-01	9.908E-02	0.000E+00	0.000E+00	5.130E-01	2.477E-01	0.000E+00	0.000E+00	1.425E-04	6.881E-05	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	3.592E-01	1.656E-01	3.835E-03	3.835E-03	1.796E-01	8.280E-02	1.917E-03	1.917E-03	2.755E-01	1.324E-01	0.000E+00	0.000E+00	6.887E-01	3.310E-01	0.000E+00	0.000E+00	1.913E-04	9.194E-05	0.000E+00	0.000E+00
1400 - 1500	1.418E+00	6.539E-01	6.711E-03	6.711E-03	7.090E-01	3.269E-01	3.356E-03	3.356E-03	1.542E+00	7.398E-01	0.000E+00	0.000E+00	3.854E+00	1.850E+00	0.000E+00	0.000E+00	1.071E-03	5.138E-04	0.000E+00	0.000E+00
1500 - 1600	1.238E+00	5.711E-01	4.794E-03	4.794E-03	6.192E-01	2.855E-01	2.397E-03	2.397E-03	2.514E-01	1.230E-01	0.000E+00	0.000E+00	6.285E-01	3.075E-01	0.000E+00	0.000E+00	1.746E-04	8.543E-05	0.000E+00	0.000E+00
1600 - 1700	3.592E-01	1.656E-01	3.835E-03	3.835E-03	1.796E-01	8.280E-02	1.917E-03	1.917E-03	1.430E-01	6.914E-02	0.000E+00	0.000E+00	3.574E-01	1.729E-01	0.000E+00	0.000E+00	9.929E-05	4.801E-05	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	3.592E-01	1.656E-01	3.835E-03	3.835E-03	1.796E-01	8.280E-02	1.917E-03	1.917E-03	2.843E-01	1.366E-01	0.000E+00	0.000E+00	7.107E-01	3.416E-01	0.000E+00	0.000E+00	1.974E-04	9.488E-05	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (HGV7)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV7							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	2.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	1.261E+00	5.814E-01	5.088E-02	4.688E-02
0800 - 0900	5.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	3.152E+00	1.454E+00	1.272E-01	1.172E-01
0900 - 1000	9.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	5.674E+00	2.616E+00	2.290E-01	2.110E-01
1000 - 1100	5.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	3.152E+00	1.454E+00	1.272E-01	1.172E-01
1100 - 1200	2.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	1.261E+00	5.814E-01	5.088E-02	4.688E-02
1200 - 1300	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	4.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	2.522E+00	1.163E+00	1.018E-01	9.376E-02
1400 - 1500	9.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	5.674E+00	2.616E+00	2.290E-01	2.110E-01
1500 - 1600	5.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	3.152E+00	1.454E+00	1.272E-01	1.172E-01
1600 - 1700	6.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	3.783E+00	1.744E+00	1.526E-01	1.406E-01
1700 - 1800	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	6.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	3.783E+00	1.744E+00	1.526E-01	1.406E-01
1900 - 2000	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV7s =	2	min

Hour	Frequency	HGV7							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	2.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	1.796E-01	8.280E-02	1.917E-03	1.917E-03
1200 - 1300	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	2.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	1.796E-01	8.280E-02	1.917E-03	1.917E-03
1500 - 1600	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	1.796E-01	8.280E-02	1.917E-03	1.917E-03
1700 - 1800	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	1.796E-01	8.280E-02	1.917E-03	1.917E-03
1900 - 2000	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (HGV7)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	3.505E+00	1.640E+00	5.280E-02	4.880E-02	9.735E-04	4.554E-04	1.467E-05	1.355E-05
0800 - 0900	8.762E+00	4.099E+00	1.320E-01	1.220E-01	2.434E-03	1.139E-03	3.666E-05	3.389E-05
0900 - 1000	1.073E+01	4.999E+00	2.376E-01	2.196E-01	2.981E-03	1.389E-03	6.600E-05	6.100E-05
1000 - 1100	3.807E+00	1.760E+00	1.320E-01	1.220E-01	1.057E-03	4.888E-04	3.666E-05	3.389E-05
1100 - 1200	1.441E+00	6.642E-01	5.280E-02	4.880E-02	4.001E-04	1.845E-04	1.467E-05	1.355E-05
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	3.157E+00	1.461E+00	1.056E-01	9.759E-02	8.768E-04	4.058E-04	2.933E-05	2.711E-05
1400 - 1500	8.814E+00	4.093E+00	2.376E-01	2.196E-01	2.448E-03	1.137E-03	6.600E-05	6.100E-05
1500 - 1600	4.642E+00	2.148E+00	1.320E-01	1.220E-01	1.290E-03	5.966E-04	3.666E-05	3.389E-05
1600 - 1700	4.465E+00	2.062E+00	1.584E-01	1.464E-01	1.240E-03	5.727E-04	4.400E-05	4.066E-05
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	4.606E+00	2.129E+00	1.584E-01	1.464E-01	1.279E-03	5.915E-04	4.400E-05	4.066E-05
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (HGV8_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	1.081E-01	1.947E-01	2.595E-01	3.676E-01	4.541E-01	6.055E-01	8.866E-01	1.103E+00	1.622E+00	2.119E+00	2.379E+00	2.811E+00	3.092E+00	3.244E+00	3.330E+00	3.417E+00	3.460E+00	3.460E+00
NO_2	3.700E-02	6.650E-02	8.870E-02	1.257E-01	1.553E-01	2.070E-01	3.032E-01	3.771E-01	5.545E-01	7.246E-01	8.133E-01	9.612E-01	1.057E+00	1.109E+00	1.139E+00	1.168E+00	1.183E+00	1.183E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of HGV8**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	2.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	2.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	2.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	2.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
6.920E+00	2.366E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.162E-01	7.400E-02	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.211E+00	4.140E-01	0.000E+00	0.000E+00
1.773E+00	6.064E-01	0.000E+00	0.000E+00
2.162E-01	7.400E-02	0.000E+00	0.000E+00
4.952E+00	1.693E+00	0.000E+00	0.000E+00
9.084E-01	3.104E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.989E+00	6.804E-01	0.000E+00	0.000E+00
1.600E+00	5.470E-01	0.000E+00	0.000E+00
3.827E+00	1.309E+00	0.000E+00	0.000E+00
1.773E+00	6.064E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (HGV8_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV8s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV8 (Diesel)									HGV8 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	1.048E+00	4.041E-01	1.817E-03	1.817E-03	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	1.854E-01	7.146E-02	1.817E-03	1.817E-03
0900 - 1000	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	1.854E-01	7.146E-02	1.817E-03	1.817E-03
1100 - 1200	2.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	1.048E+00	4.041E-01	1.817E-03	1.817E-03	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	1.854E-01	7.146E-02	1.817E-03	1.817E-03
1300 - 1400	5.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	2.621E+00	1.010E+00	4.543E-03	4.543E-03	2.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	1.854E-01	7.146E-02	1.817E-03	1.817E-03
1400 - 1500	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	3.708E-01	1.429E-01	3.635E-03	3.635E-03
1500 - 1600	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	1.048E+00	4.041E-01	1.817E-03	1.817E-03	2.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	1.854E-01	7.146E-02	1.817E-03	1.817E-03
1700 - 1800	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	3.708E-01	1.429E-01	3.635E-03	3.635E-03
1800 - 1900	3.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	1.572E+00	6.061E-01	2.726E-03	2.726E-03	2.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	1.854E-01	7.146E-02	1.817E-03	1.817E-03
1900 - 2000	2.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	1.048E+00	4.041E-01	1.817E-03	1.817E-03	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.048E+00	4.041E-01	1.817E-03	1.817E-03	5.242E-01	2.020E-01	9.087E-04	9.087E-04	1.827E+00	6.183E-01	0.000E+00	0.000E+00	4.568E+00	1.546E+00	0.000E+00	0.000E+00	1.269E-03	4.294E-04	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.854E-01	7.146E-02	1.817E-03	1.817E-03	9.270E-02	3.573E-02	9.087E-04	9.087E-04	3.529E-02	1.093E-02	0.000E+00	0.000E+00	8.822E-02	2.734E-02	0.000E+00	0.000E+00	2.450E-05	7.593E-06	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.854E-01	7.146E-02	1.817E-03	1.817E-03	9.270E-02	3.573E-02	9.087E-04	9.087E-04	3.195E-01	1.081E-01	0.000E+00	0.000E+00	7.988E-01	2.702E-01	0.000E+00	0.000E+00	2.219E-04	7.505E-05	0.000E+00	0.000E+00
1100 - 1200	1.048E+00	4.041E-01	1.817E-03	1.817E-03	5.242E-01	2.020E-01	9.087E-04	9.087E-04	3.569E-01	1.155E-01	0.000E+00	0.000E+00	8.922E-01	2.888E-01	0.000E+00	0.000E+00	2.478E-04	8.023E-05	0.000E+00	0.000E+00
1200 - 1300	1.854E-01	7.146E-02	1.817E-03	1.817E-03	9.270E-02	3.573E-02	9.087E-04	9.087E-04	3.529E-02	1.093E-02	0.000E+00	0.000E+00	8.822E-02	2.734E-02	0.000E+00	0.000E+00	2.450E-05	7.593E-06	0.000E+00	0.000E+00
1300 - 1400	2.806E+00	1.082E+00	6.361E-03	6.361E-03	1.403E+00	5.408E-01	3.180E-03	3.180E-03	1.014E+00	3.293E-01	0.000E+00	0.000E+00	2.535E+00	8.233E-01	0.000E+00	0.000E+00	7.041E-04	2.287E-04	0.000E+00	0.000E+00
1400 - 1500	3.708E-01	1.429E-01	3.635E-03	3.635E-03	1.854E-01	7.146E-02	1.817E-03	1.817E-03	2.066E-01	6.827E-02	0.000E+00	0.000E+00	5.164E-01	1.707E-01	0.000E+00	0.000E+00	1.435E-04	4.741E-05	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.234E+00	4.755E-01	3.635E-03	3.635E-03	6.169E-01	2.378E-01	1.817E-03	1.817E-03	3.922E-01	1.265E-01	0.000E+00	0.000E+00	9.804E-01	3.162E-01	0.000E+00	0.000E+00	2.723E-04	8.782E-05	0.000E+00	0.000E+00
1700 - 1800	3.708E-01	1.429E-01	3.635E-03	3.635E-03	1.854E-01	7.146E-02	1.817E-03	1.817E-03	4.043E-01	1.359E-01	0.000E+00	0.000E+00	1.011E+00	3.397E-01	0.000E+00	0.000E+00	2.808E-04	9.435E-05	0.000E+00	0.000E+00
1800 - 1900	1.758E+00	6.776E-01	4.543E-03	4.543E-03	8.789E-01	3.388E-01	2.272E-03	2.272E-03	8.424E-01	2.771E-01	0.000E+00	0.000E+00	2.106E+00	6.928E-01	0.000E+00	0.000E+00	5.850E-04	1.924E-04	0.000E+00	0.000E+00
1900 - 2000	1.048E+00	4.041E-01	1.817E-03	1.817E-03	5.242E-01	2.020E-01	9.087E-04	9.087E-04	3.569E-01	1.155E-01	0.000E+00	0.000E+00	8.922E-01	2.888E-01	0.000E+00	0.000E+00	2.478E-04	8.023E-05	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (HGV8)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV8							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	2.635E+00	1.016E+00	9.600E-02	8.832E-02
0700 - 0800	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	2.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	2.635E+00	1.016E+00	9.600E-02	8.832E-02
0900 - 1000	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	2.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	2.635E+00	1.016E+00	9.600E-02	8.832E-02
1100 - 1200	2.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	2.635E+00	1.016E+00	9.600E-02	8.832E-02
1200 - 1300	5.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	6.587E+00	2.539E+00	2.400E-01	2.208E-01
1300 - 1400	7.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	9.222E+00	3.555E+00	3.360E-01	3.091E-01
1400 - 1500	4.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	5.270E+00	2.031E+00	1.920E-01	1.766E-01
1500 - 1600	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	4.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	5.270E+00	2.031E+00	1.920E-01	1.766E-01
1700 - 1800	4.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	5.270E+00	2.031E+00	1.920E-01	1.766E-01
1800 - 1900	7.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	9.222E+00	3.555E+00	3.360E-01	3.091E-01
1900 - 2000	2.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	2.635E+00	1.016E+00	9.600E-02	8.832E-02
2000 - 2100	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV8s =	2	min

Hour	Frequency	HGV8							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	3.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	2.781E-01	1.072E-01	2.726E-03	2.726E-03
1300 - 1400	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	1.854E-01	7.146E-02	1.817E-03	1.817E-03
1900 - 2000	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (HGV8)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	5.511E+00	2.038E+00	9.782E-02	9.014E-02	1.531E-03	5.661E-04	2.717E-05	2.504E-05
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	2.855E+00	1.098E+00	9.782E-02	9.014E-02	7.932E-04	3.050E-04	2.717E-05	2.504E-05
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	3.140E+00	1.195E+00	9.782E-02	9.014E-02	8.721E-04	3.320E-04	2.717E-05	2.504E-05
1100 - 1200	4.040E+00	1.535E+00	9.782E-02	9.014E-02	1.122E-03	4.264E-04	2.717E-05	2.504E-05
1200 - 1300	7.086E+00	2.729E+00	2.445E-01	2.253E-01	1.968E-03	7.579E-04	6.793E-05	6.260E-05
1300 - 1400	1.304E+01	4.966E+00	3.424E-01	3.155E-01	3.623E-03	1.379E-03	9.510E-05	8.763E-05
1400 - 1500	5.847E+00	2.242E+00	1.956E-01	1.803E-01	1.624E-03	6.229E-04	5.434E-05	5.008E-05
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	6.895E+00	2.633E+00	1.956E-01	1.803E-01	1.915E-03	7.314E-04	5.434E-05	5.008E-05
1700 - 1800	6.045E+00	2.310E+00	1.956E-01	1.803E-01	1.679E-03	6.417E-04	5.434E-05	5.008E-05
1800 - 1900	1.201E+01	4.581E+00	3.424E-01	3.155E-01	3.335E-03	1.272E-03	9.510E-05	8.763E-05
1900 - 2000	4.040E+00	1.535E+00	9.782E-02	9.014E-02	1.122E-03	4.264E-04	2.717E-05	2.504E-05
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (HGV9_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	1.153E-01	2.076E-01	2.768E-01	3.922E-01	4.844E-01	6.460E-01	9.458E-01	1.177E+00	1.730E+00	2.261E+00	2.538E+00	2.999E+00	3.299E+00	3.461E+00	3.553E+00	3.645E+00	3.691E+00	3.691E+00
NO_2	3.580E-02	6.440E-02	8.590E-02	1.216E-01	1.503E-01	2.003E-01	2.934E-01	3.649E-01	5.366E-01	7.012E-01	7.870E-01	9.301E-01	1.023E+00	1.073E+00	1.102E+00	1.131E+00	1.145E+00	1.145E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	No. of Cold Starts of HGV9																	
Sitting Time (min)	5	10	20	30	40	50	60	120	180	240	300	360	420	480	540	600	660	720
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	2.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	2.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	3.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	NO_2	RSP	FSP
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
7.383E+00	2.290E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.351E+00	2.590E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
7.383E+00	2.290E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.753E+00	5.438E-01	0.000E+00	0.000E+00
4.522E+00	1.402E+00	0.000E+00	0.000E+00
6.413E+00	1.989E+00	0.000E+00	0.000E+00
2.168E+00	6.726E-01	0.000E+00	0.000E+00
7.842E-01	2.434E-01	0.000E+00	0.000E+00
5.537E+00	1.717E+00	0.000E+00	0.000E+00
1.315E+00	4.080E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
4.522E+00	1.402E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (HGV9_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV9s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV9 (Diesel)									HGV9 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	1.194E+00	4.231E-01	2.513E-03	2.513E-03	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	2.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	1.194E+00	4.231E-01	2.513E-03	2.513E-03	4.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	5.094E-01	1.805E-01	5.025E-03	5.025E-03
0900 - 1000	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	2.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	1.194E+00	4.231E-01	2.513E-03	2.513E-03	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	5.094E-01	1.805E-01	5.025E-03	5.025E-03
1300 - 1400	2.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	1.194E+00	4.231E-01	2.513E-03	2.513E-03	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	4.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	2.387E+00	8.461E-01	5.025E-03	5.025E-03	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	7.641E-01	2.708E-01	7.538E-03	7.538E-03
1600 - 1700	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	5.094E-01	1.805E-01	5.025E-03	5.025E-03
1700 - 1800	2.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	1.194E+00	4.231E-01	2.513E-03	2.513E-03	4.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	5.094E-01	1.805E-01	5.025E-03	5.025E-03
1800 - 1900	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	6.368E-01	2.257E-01	6.282E-03	6.282E-03
1900 - 2000	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	1.194E+00	4.231E-01	2.513E-03	2.513E-03	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.194E+00	4.231E-01	2.513E-03	2.513E-03	5.969E-01	2.115E-01	1.256E-03	1.256E-03	1.939E+00	5.937E-01	0.000E+00	0.000E+00	4.847E+00	1.484E+00	0.000E+00	0.000E+00	1.346E-03	4.123E-04	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.703E+00	6.036E-01	7.538E-03	7.538E-03	8.516E-01	3.018E-01	3.769E-03	3.769E-03	2.143E+00	6.538E-01	0.000E+00	0.000E+00	5.357E+00	1.635E+00	0.000E+00	0.000E+00	1.488E-03	4.540E-04	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.194E+00	4.231E-01	2.513E-03	2.513E-03	5.969E-01	2.115E-01	1.256E-03	1.256E-03	1.939E+00	5.937E-01	0.000E+00	0.000E+00	4.847E+00	1.484E+00	0.000E+00	0.000E+00	1.346E-03	4.123E-04	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	5.094E-01	1.805E-01	5.025E-03	5.025E-03	2.547E-01	9.027E-02	2.513E-03	2.513E-03	4.281E-01	1.296E-01	0.000E+00	0.000E+00	1.070E+00	3.239E-01	0.000E+00	0.000E+00	2.973E-04	8.999E-05	0.000E+00	0.000E+00
1300 - 1400	1.194E+00	4.231E-01	2.513E-03	2.513E-03	5.969E-01	2.115E-01	1.256E-03	1.256E-03	1.121E+00	3.402E-01	0.000E+00	0.000E+00	2.804E+00	8.506E-01	0.000E+00	0.000E+00	7.788E-04	2.363E-04	0.000E+00	0.000E+00
1400 - 1500	2.387E+00	8.461E-01	5.025E-03	5.025E-03	1.194E+00	4.231E-01	2.513E-03	2.513E-03	1.491E+00	4.475E-01	0.000E+00	0.000E+00	3.728E+00	1.119E+00	0.000E+00	0.000E+00	1.036E-03	3.107E-04	0.000E+00	0.000E+00
1500 - 1600	7.641E-01	2.708E-01	7.538E-03	7.538E-03	3.821E-01	1.354E-01	3.769E-03	3.769E-03	5.104E-01	1.535E-01	0.000E+00	0.000E+00	1.276E+00	3.837E-01	0.000E+00	0.000E+00	3.544E-04	1.066E-04	0.000E+00	0.000E+00
1600 - 1700	5.094E-01	1.805E-01	5.025E-03	5.025E-03	2.547E-01	9.027E-02	2.513E-03	2.513E-03	1.513E-01	4.375E-02	0.000E+00	0.000E+00	3.782E-01	1.094E-01	0.000E+00	0.000E+00	1.051E-04	3.038E-05	0.000E+00	0.000E+00
1700 - 1800	1.703E+00	6.036E-01	7.538E-03	7.538E-03	8.516E-01	3.018E-01	3.769E-03	3.769E-03	1.339E+00	4.044E-01	0.000E+00	0.000E+00	3.347E+00	1.011E+00	0.000E+00	0.000E+00	9.296E-04	2.808E-04	0.000E+00	0.000E+00
1800 - 1900	6.368E-01	2.257E-01	6.282E-03	6.282E-03	3.184E-01	1.128E-01	3.141E-03	3.141E-03	2.847E-01	8.433E-02	0.000E+00	0.000E+00	7.117E-01	2.108E-01	0.000E+00	0.000E+00	1.977E-04	5.856E-05	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.194E+00	4.231E-01	2.513E-03	2.513E-03	5.969E-01	2.115E-01	1.256E-03	1.256E-03	1.121E+00	3.402E-01	0.000E+00	0.000E+00	2.804E+00	8.506E-01	0.000E+00	0.000E+00	7.788E-04	2.363E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (HGV9)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV9							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	2.905E+00	1.030E+00	1.064E-01	9.792E-02
0700 - 0800	2.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	2.905E+00	1.030E+00	1.064E-01	9.792E-02
0800 - 0900	6.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	8.715E+00	3.089E+00	3.192E-01	2.938E-01
0900 - 1000	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	2.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	2.905E+00	1.030E+00	1.064E-01	9.792E-02
1100 - 1200	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	6.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	8.715E+00	3.089E+00	3.192E-01	2.938E-01
1300 - 1400	2.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	2.905E+00	1.030E+00	1.064E-01	9.792E-02
1400 - 1500	4.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	5.810E+00	2.059E+00	2.128E-01	1.958E-01
1500 - 1600	9.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	1.307E+01	4.633E+00	4.788E-01	4.406E-01
1600 - 1700	4.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	5.810E+00	2.059E+00	2.128E-01	1.958E-01
1700 - 1800	6.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	8.715E+00	3.089E+00	3.192E-01	2.938E-01
1800 - 1900	5.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	7.263E+00	2.574E+00	2.660E-01	2.448E-01
1900 - 2000	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	2.905E+00	1.030E+00	1.064E-01	9.792E-02
2100 - 2200	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV9s =	2	min

Hour	Frequency	HGV9							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	2.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	2.547E-01	9.027E-02	2.513E-03	2.513E-03
0800 - 0900	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	2.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	2.547E-01	9.027E-02	2.513E-03	2.513E-03
1300 - 1400	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	3.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	3.821E-01	1.354E-01	3.769E-03	3.769E-03
1600 - 1700	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Mega Wheel Warehouse (巨輪集團) (HGV9)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	6.038E+00	2.046E+00	1.089E-01	1.004E-01	1.677E-03	5.684E-04	3.025E-05	2.790E-05
0700 - 0800	3.160E+00	1.120E+00	1.089E-01	1.004E-01	8.777E-04	3.111E-04	3.025E-05	2.790E-05
0800 - 0900	1.256E+01	4.346E+00	3.267E-01	3.013E-01	3.489E-03	1.207E-03	9.076E-05	8.369E-05
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	6.038E+00	2.046E+00	1.089E-01	1.004E-01	1.677E-03	5.684E-04	3.025E-05	2.790E-05
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	9.908E+00	3.489E+00	3.267E-01	3.013E-01	2.752E-03	9.692E-04	9.076E-05	8.369E-05
1300 - 1400	5.220E+00	1.793E+00	1.089E-01	1.004E-01	1.450E-03	4.980E-04	3.025E-05	2.790E-05
1400 - 1500	9.689E+00	3.353E+00	2.178E-01	2.009E-01	2.691E-03	9.313E-04	6.051E-05	5.580E-05
1500 - 1600	1.473E+01	5.193E+00	4.901E-01	4.519E-01	4.092E-03	1.442E-03	1.361E-04	1.255E-04
1600 - 1700	6.471E+00	2.283E+00	2.178E-01	2.009E-01	1.797E-03	6.343E-04	6.051E-05	5.580E-05
1700 - 1800	1.176E+01	4.097E+00	3.267E-01	3.013E-01	3.266E-03	1.138E-03	9.076E-05	8.369E-05
1800 - 1900	8.184E+00	2.884E+00	2.723E-01	2.511E-01	2.273E-03	8.011E-04	7.563E-05	6.974E-05
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	5.220E+00	1.793E+00	1.089E-01	1.004E-01	1.450E-03	4.980E-04	3.025E-05	2.790E-05
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC_Diesel)

Starting Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio =		0.02

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of PC_Diesel**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.02
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	**Total Starting Emission (g)**			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC_Diesel)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	PC (Diesel)									PC (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.02	4.752E-02	6.098E-03	8.116E-04	8.116E-04	1.558E-03	1.999E-04	2.660E-05	2.660E-05	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.02	4.752E-02	6.098E-03	8.116E-04	8.116E-04	1.558E-03	1.999E-04	2.660E-05	2.660E-05	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.03	4.752E-02	6.098E-03	8.116E-04	8.116E-04	3.115E-03	3.997E-04	5.320E-05	5.320E-05	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.02	4.752E-02	6.098E-03	8.116E-04	8.116E-04	1.558E-03	1.999E-04	2.660E-05	2.660E-05
1800 - 1900	0.05	4.752E-02	6.098E-03	8.116E-04	8.116E-04	4.673E-03	5.996E-04	7.980E-05	7.980E-05	0.05	4.752E-02	6.098E-03	8.116E-04	8.116E-04	4.673E-03	5.996E-04	7.980E-05	7.980E-05
1900 - 2000	0.02	4.752E-02	6.098E-03	8.116E-04	8.116E-04	1.558E-03	1.999E-04	2.660E-05	2.660E-05	0.02	4.752E-02	6.098E-03	8.116E-04	8.116E-04	1.558E-03	1.999E-04	2.660E-05	2.660E-05
2000 - 2100	0.03	4.752E-02	6.098E-03	8.116E-04	8.116E-04	3.115E-03	3.997E-04	5.320E-05	5.320E-05	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.558E-03	1.999E-04	2.660E-05	2.660E-05	7.788E-04	9.993E-05	1.330E-05	1.330E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.558E-03	1.999E-04	2.660E-05	2.660E-05	7.788E-04	9.993E-05	1.330E-05	1.330E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	3.115E-03	3.997E-04	5.320E-05	5.320E-05	1.558E-03	1.999E-04	2.660E-05	2.660E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.558E-03	1.999E-04	2.660E-05	2.660E-05	7.788E-04	9.993E-05	1.330E-05	1.330E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	9.345E-03	1.199E-03	1.596E-04	1.596E-04	4.673E-03	5.996E-04	7.980E-05	7.980E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	3.115E-03	3.997E-04	5.320E-05	5.320E-05	1.558E-03	1.999E-04	2.660E-05	2.660E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	3.115E-03	3.997E-04	5.320E-05	5.320E-05	1.558E-03	1.999E-04	2.660E-05	2.660E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC_Petrol)

Starting Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio =		0.02

	Starting Emission Factor (g/trip)																	
NO	5.793E-02	5.914E-02	6.114E-02	6.315E-02	6.495E-02	6.675E-02	6.845E-02	7.606E-02	8.646E-02	8.565E-02	8.455E-02	8.275E-02	8.065E-02	7.794E-02	7.494E-02	7.123E-02	6.713E-02	6.252E-02
NO_2	3.102E-03	3.102E-03	3.202E-03	3.302E-03	3.403E-03	3.503E-03	3.603E-03	4.003E-03	4.503E-03	4.503E-03	4.403E-03	4.403E-03	4.202E-03	4.102E-03	3.902E-03	3.702E-03	3.502E-03	3.301E-03
RSP	4.010E-04	8.009E-04	1.501E-03	2.300E-03	3.000E-03	3.600E-03	4.300E-03	7.101E-03	7.901E-03	8.701E-03	9.302E-03	9.902E-03	1.040E-02	1.080E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.008E-04	7.007E-04	1.401E-03	2.100E-03	2.700E-03	3.400E-03	4.000E-03	6.600E-03	7.401E-03	8.101E-03	8.701E-03	9.201E-03	9.601E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	No. of Cold Starts of PC_Petrol																		Total Starting Emission (g)			
Sitting Time (min)	5	10	20	30	40	50	60	120	180	240	300	360	420	480	540	600	660	720	NO	NO_2	RSP	FSP
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	6.603E-02	3.444E-03	1.112E-02	1.033E-02
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.733E-02	3.544E-03	4.230E-03	3.935E-03
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	1.656E-01	8.760E-03	1.830E-02	1.702E-02
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.698E-02	3.051E-03	3.945E-04	3.942E-04
1800 - 1900	0.00	0.00	1.97	0.00	0.98	0.00	0.00	1.97	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.180E-01	2.195E-02	2.843E-02	2.636E-02
1900 - 2000	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.369E-01	7.186E-03	9.247E-03	8.558E-03
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.98	1.316E-01	6.888E-03	2.214E-02	2.056E-02
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC_Petrol)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	PC (Petrol)									PC (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.98	1.393E-03	7.348E-05	2.448E-05	2.448E-05	2.740E-03	1.445E-04	4.816E-05	4.816E-05	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.98	1.393E-03	7.348E-05	2.448E-05	2.448E-05	2.740E-03	1.445E-04	4.816E-05	4.816E-05
1200 - 1300	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.97	1.393E-03	7.348E-05	2.448E-05	2.448E-05	5.480E-03	2.891E-04	9.631E-05	9.631E-05	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.98	1.393E-03	7.348E-05	2.448E-05	2.448E-05	2.740E-03	1.445E-04	4.816E-05	4.816E-05
1800 - 1900	0.98	1.393E-03	7.348E-05	2.448E-05	2.448E-05	2.740E-03	1.445E-04	4.816E-05	4.816E-05	4.92	1.393E-03	7.348E-05	2.448E-05	2.448E-05	1.370E-02	7.227E-04	2.408E-04	2.408E-04
1900 - 2000	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.97	1.393E-03	7.348E-05	2.448E-05	2.448E-05	5.480E-03	2.891E-04	9.631E-05	9.631E-05
2000 - 2100	1.97	1.393E-03	7.348E-05	2.448E-05	2.448E-05	5.480E-03	2.891E-04	9.631E-05	9.631E-05	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.740E-03	1.445E-04	4.816E-05	4.816E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.603E-02	3.444E-03	1.112E-02	1.033E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	2.740E-03	1.445E-04	4.816E-05	4.816E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.733E-02	3.544E-03	4.230E-03	3.935E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	5.480E-03	2.891E-04	9.631E-05	9.631E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.656E-01	8.760E-03	1.830E-02	1.702E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	2.740E-03	1.445E-04	4.816E-05	4.816E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.698E-02	3.051E-03	3.945E-04	3.942E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.644E-02	8.673E-04	2.889E-04	2.889E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.180E-01	2.195E-02	2.843E-02	2.636E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	5.480E-03	2.891E-04	9.631E-05	9.631E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.369E-01	7.186E-03	9.247E-03	8.558E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	5.480E-03	2.891E-04	9.631E-05	9.631E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.316E-01	6.888E-03	2.214E-02	2.056E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	PC								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	1.332E-02	7.200E-04	2.880E-03	2.670E-03
0700 - 0800	1.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	1.332E-02	7.200E-04	2.880E-03	2.670E-03
0800 - 0900	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	1.332E-02	7.200E-04	2.880E-03	2.670E-03
1100 - 1200	1.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	1.332E-02	7.200E-04	2.880E-03	2.670E-03
1200 - 1300	1.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	1.332E-02	7.200E-04	2.880E-03	2.670E-03
1300 - 1400	3.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	3.996E-02	2.160E-03	8.640E-03	8.010E-03
1400 - 1500	1.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	1.332E-02	7.200E-04	2.880E-03	2.670E-03
1500 - 1600	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	2.664E-02	1.440E-03	5.760E-03	5.340E-03
1700 - 1800	2.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	2.664E-02	1.440E-03	5.760E-03	5.340E-03
1800 - 1900	6.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	7.992E-02	4.320E-03	1.728E-02	1.602E-02
1900 - 2000	2.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	2.664E-02	1.440E-03	5.760E-03	5.340E-03
2000 - 2100	2.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	2.664E-02	1.440E-03	5.760E-03	5.340E-03
2100 - 2200	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.440E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio [1] =	0.02	
Idling Time for Non-terminating PCs =	0.5	min

Hour	PC (Diesel)									PC (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.02	4.752E-02	6.098E-03	8.116E-04	8.116E-04	3.894E-04	4.997E-05	6.650E-06	6.650E-06	1	1.393E-03	7.348E-05	2.448E-05	2.448E-05	6.850E-04	3.614E-05	1.204E-05	1.204E-05
0800 - 0900	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.02	4.752E-02	6.098E-03	8.116E-04	8.116E-04	3.894E-04	4.997E-05	6.650E-06	6.650E-06	1	1.393E-03	7.348E-05	2.448E-05	2.448E-05	6.850E-04	3.614E-05	1.204E-05	1.204E-05
1100 - 1200	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.02	4.752E-02	6.098E-03	8.116E-04	8.116E-04	3.894E-04	4.997E-05	6.650E-06	6.650E-06	1	1.393E-03	7.348E-05	2.448E-05	2.448E-05	6.850E-04	3.614E-05	1.204E-05	1.204E-05
1300 - 1400	0.02	4.752E-02	6.098E-03	8.116E-04	8.116E-04	3.894E-04	4.997E-05	6.650E-06	6.650E-06	1	1.393E-03	7.348E-05	2.448E-05	2.448E-05	6.850E-04	3.614E-05	1.204E-05	1.204E-05
1400 - 1500	0.02	4.752E-02	6.098E-03	8.116E-04	8.116E-04	3.894E-04	4.997E-05	6.650E-06	6.650E-06	1	1.393E-03	7.348E-05	2.448E-05	2.448E-05	6.850E-04	3.614E-05	1.204E-05	1.204E-05
1500 - 1600	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.03	4.752E-02	6.098E-03	8.116E-04	8.116E-04	7.788E-04	9.993E-05	1.330E-05	1.330E-05	2	1.393E-03	7.348E-05	2.448E-05	2.448E-05	1.370E-03	7.227E-05	2.408E-05	2.408E-05
1700 - 1800	0.02	4.752E-02	6.098E-03	8.116E-04	8.116E-04	3.894E-04	4.997E-05	6.650E-06	6.650E-06	1	1.393E-03	7.348E-05	2.448E-05	2.448E-05	6.850E-04	3.614E-05	1.204E-05	1.204E-05
1800 - 1900	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.752E-02	6.098E-03	8.116E-04	8.116E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.393E-03	7.348E-05	2.448E-05	2.448E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of PC (Diesel) to PC (Petrol) was extracted from Year 2031 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC)

Total Hourly Emission

	Emission Within Carpark							
Hour	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	8.365E-02	4.509E-03	1.407E-02	1.307E-02	2.324E-05	1.252E-06	3.909E-06	3.632E-06
0700 - 0800	1.439E-02	8.061E-04	2.899E-03	2.689E-03	3.998E-06	2.239E-07	8.052E-07	7.469E-07
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.439E-02	8.061E-04	2.899E-03	2.689E-03	3.998E-06	2.239E-07	8.052E-07	7.469E-07
1100 - 1200	8.495E-02	4.608E-03	7.184E-03	6.679E-03	2.360E-05	1.280E-06	1.996E-06	1.855E-06
1200 - 1300	1.439E-02	8.061E-04	2.899E-03	2.689E-03	3.998E-06	2.239E-07	8.052E-07	7.469E-07
1300 - 1400	2.153E-01	1.169E-02	2.711E-02	2.520E-02	5.980E-05	3.248E-06	7.530E-06	6.999E-06
1400 - 1500	1.439E-02	8.061E-04	2.899E-03	2.689E-03	3.998E-06	2.239E-07	8.052E-07	7.469E-07
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.879E-02	1.612E-03	5.797E-03	5.377E-03	7.997E-06	4.478E-07	1.610E-06	1.494E-06
1700 - 1800	8.900E-02	4.921E-03	6.248E-03	5.828E-03	2.472E-05	1.367E-06	1.736E-06	1.619E-06
1800 - 1900	5.237E-01	2.834E-02	4.616E-02	4.283E-02	1.455E-04	7.871E-06	1.282E-05	1.190E-05
1900 - 2000	1.722E-01	9.315E-03	1.516E-02	1.405E-02	4.782E-05	2.587E-06	4.210E-06	3.902E-06
2000 - 2100	1.668E-01	9.017E-03	2.805E-02	2.605E-02	4.633E-05	2.505E-06	7.790E-06	7.236E-06
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi_LPG)

Starting Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio =		18055.56

	Starting Emission Factor (g/trip)																	
NO	1.033E+00	1.050E+00	1.083E+00	1.116E+00	1.147E+00	1.177E+00	1.206E+00	1.342E+00	1.525E+00	1.512E+00	1.491E+00	1.461E+00	1.423E+00	1.376E+00	1.320E+00	1.256E+00	1.183E+00	1.101E+00
NO_2	2.900E-02	2.950E-02	3.040E-02	3.130E-02	3.220E-02	3.300E-02	3.380E-02	3.770E-02	4.280E-02	4.240E-02	4.180E-02	4.100E-02	3.990E-02	3.860E-02	3.700E-02	3.520E-02	3.320E-02	3.090E-02
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of Taxi_LPG**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi_LPG)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (LPG)									Taxi (LPG)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.635E-01	4.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi_Petrol)

Starting Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio =		18055.56

	Starting Emission Factor (g/trip)																	
NO	7.790E-02	7.910E-02	8.170E-02	8.420E-02	8.640E-02	8.870E-02	9.090E-02	1.013E-01	1.149E-01	1.140E-01	1.125E-01	1.102E-01	1.073E-01	1.037E-01	9.960E-02	9.470E-02	8.920E-02	8.300E-02
NO_2	4.100E-03	4.200E-03	4.300E-03	4.400E-03	4.600E-03	4.700E-03	4.800E-03	5.300E-03	6.100E-03	6.000E-03	5.900E-03	5.800E-03	5.600E-03	5.500E-03	5.200E-03	5.000E-03	4.700E-03	4.400E-03
RSP	4.000E-04	8.000E-04	1.500E-03	2.300E-03	3.000E-03	3.600E-03	4.200E-03	7.000E-03	7.900E-03	8.700E-03	9.300E-03	9.900E-03	1.040E-02	1.070E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.000E-04	7.000E-04	1.400E-03	2.100E-03	2.700E-03	3.400E-03	3.900E-03	6.500E-03	7.300E-03	8.000E-03	8.700E-03	9.200E-03	9.600E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	**No. of Cold Starts of Taxi_Petrol**																			**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**		**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi_Petrol)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (Petrol)									Taxi (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	Taxi								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	3.132E-01	8.790E-03	0.000E+00	0.000E+00
1900 - 2000	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.044E+00	2.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio [1] =	18055.56	
Idling Time for Non-terminating Taxi =	0.5	min

Hour	Taxi (LPG)									Taxi (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	1.063E-01	2.983E-03	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	4.563E-08	2.368E-09	6.000E-09	6.000E-09
1900 - 2000	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.126E-01	5.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of Taxi (LPG) to Taxi (Petrol) was extracted from Year 2031 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	4.195E-01	1.177E-02	6.000E-09	6.000E-09	1.165E-04	3.270E-06	1.667E-12	1.667E-12
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3_Diesel)

Starting Emission

No. of LGV3 (Diesel) to No. of LGV3 (Petrol) Ratio =		28.33

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of LGV3_Diesel**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV3 (Diesel)									LGV3 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.97	2.956E-02	2.142E-03	4.333E-04	4.333E-04	5.710E-02	4.139E-03	8.371E-04	8.371E-04
1500 - 1600	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.97	2.956E-02	2.142E-03	4.333E-04	4.333E-04	5.710E-02	4.139E-03	8.371E-04	8.371E-04
1800 - 1900	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	5.710E-02	4.139E-03	8.371E-04	8.371E-04	2.855E-02	2.069E-03	4.186E-04	4.186E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	5.710E-02	4.139E-03	8.371E-04	8.371E-04	2.855E-02	2.069E-03	4.186E-04	4.186E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3_Petrol)

Starting Emission

No. of LGV3 (Diesel) to No. of LGV3 (Petrol) Ratio =		28.33

	Starting Emission Factor (g/trip)																	
NO	1.249E-01	1.411E-01	1.702E-01	1.947E-01	2.146E-01	2.299E-01	2.407E-01	2.577E-01	2.647E-01	2.594E-01	2.526E-01	2.443E-01	2.346E-01	2.232E-01	2.103E-01	1.961E-01	1.804E-01	1.631E-01
NO_2	6.600E-03	7.443E-03	8.967E-03	1.021E-02	1.127E-02	1.215E-02	1.265E-02	1.358E-02	1.397E-02	1.364E-02	1.325E-02	1.290E-02	1.230E-02	1.173E-02	1.111E-02	1.034E-02	9.505E-03	8.614E-03
RSP	2.676E-03	2.581E-03	2.462E-03	2.333E-03	2.390E-03	2.348E-03	2.490E-03	4.248E-03	5.352E-03	6.267E-03	7.086E-03	7.805E-03	8.524E-03	9.052E-03	9.481E-03	9.814E-03	9.952E-03	1.009E-02
FSP	2.067E-03	2.043E-03	1.952E-03	2.019E-03	2.062E-03	2.076E-03	2.252E-03	3.671E-03	4.552E-03	5.267E-03	5.910E-03	6.476E-03	6.971E-03	7.390E-03	7.738E-03	8.014E-03	8.214E-03	8.343E-03

Hour	**No. of Cold Starts of LGV3_Petrol**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	**Total Starting Emission (g)**			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	4.810E-03	2.537E-04	8.799E-05	6.964E-05
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	4.257E-03	2.250E-04	9.123E-05	7.045E-05
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3_Petrol)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	LGV3 (Petrol)									LGV3 (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	2.550E-03	1.340E-04	1.224E-05	1.224E-05	1.739E-04	9.137E-06	8.342E-07	8.342E-07
1500 - 1600	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	2.550E-03	1.340E-04	1.224E-05	1.224E-05	1.739E-04	9.137E-06	8.342E-07	8.342E-07
1800 - 1900	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.739E-04	9.137E-06	8.342E-07	8.342E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.810E-03	2.537E-04	8.799E-05	6.964E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.739E-04	9.137E-06	8.342E-07	8.342E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.257E-03	2.250E-04	9.123E-05	7.045E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	LGV3 Frequency	Running Emission Factor (g/km·vehicle) NO	NO_2	RSP	FSP	Running Emission Within Carpark (g) NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	5.024E-01	3.636E-02	4.830E-03	4.440E-03
0700 - 0800	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	1.005E+00	7.272E-02	9.660E-03	8.880E-03
1000 - 1100	1.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	5.024E-01	3.636E-02	4.830E-03	4.440E-03
1100 - 1200	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	5.024E-01	3.636E-02	4.830E-03	4.440E-03
1500 - 1600	1.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	5.024E-01	3.636E-02	4.830E-03	4.440E-03
1600 - 1700	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	5.024E-01	3.636E-02	4.830E-03	4.440E-03
1800 - 1900	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	5.024E-01	3.636E-02	4.830E-03	4.440E-03
2100 - 2200	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.675E+00	1.212E-01	1.610E-02	1.480E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of LGV3 (Diesel) to No. of LGV3 (LPG) Ratio [1] =	28.33	
Idling Time for Non-terminating LGV3s =	0.5	min

Hour	LGV3 (Diesel) Frequency	Hot Idling Emission Factor (g/min) NO	NO_2	RSP	FSP	Hot Idling Emission (g) NO	NO_2	RSP	FSP	LGV3 (Petrol) Frequency	Hot Idling Emission Factor (g/min) NO	NO_2	RSP	FSP	Hot Idling Emission (g) NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.97	2.956E-02	2.142E-03	4.333E-04	4.333E-04	1.427E-02	1.035E-03	2.093E-04	2.093E-04	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	4.347E-05	2.284E-06	2.086E-07	2.086E-07
0700 - 0800	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.93	2.956E-02	2.142E-03	4.333E-04	4.333E-04	2.855E-02	2.069E-03	4.186E-04	4.186E-04	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	8.693E-05	4.568E-06	4.171E-07	4.171E-07
1000 - 1100	0.97	2.956E-02	2.142E-03	4.333E-04	4.333E-04	1.427E-02	1.035E-03	2.093E-04	2.093E-04	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	4.347E-05	2.284E-06	2.086E-07	2.086E-07
1100 - 1200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.97	2.956E-02	2.142E-03	4.333E-04	4.333E-04	1.427E-02	1.035E-03	2.093E-04	2.093E-04	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	4.347E-05	2.284E-06	2.086E-07	2.086E-07
1600 - 1700	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.97	2.956E-02	2.142E-03	4.333E-04	4.333E-04	1.427E-02	1.035E-03	2.093E-04	2.093E-04	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	4.347E-05	2.284E-06	2.086E-07	2.086E-07
2100 - 2200	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.956E-02	2.142E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	2.550E-03	1.340E-04	1.224E-05	1.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of LGV3 (Diesel) to LGV3 (Petrol) was extracted from Year 2031 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	5.167E-01	3.740E-02	5.039E-03	4.649E-03	1.435E-04	1.039E-05	1.400E-06	1.292E-06
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.033E+00	7.479E-02	1.008E-02	9.299E-03	2.871E-04	2.078E-05	2.800E-06	2.583E-06
1000 - 1100	5.167E-01	3.740E-02	5.039E-03	4.649E-03	1.435E-04	1.039E-05	1.400E-06	1.292E-06
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	5.645E-01	4.076E-02	5.756E-03	5.348E-03	1.568E-04	1.132E-05	1.599E-06	1.485E-06
1500 - 1600	5.167E-01	3.740E-02	5.039E-03	4.649E-03	1.435E-04	1.039E-05	1.400E-06	1.292E-06
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	5.639E-01	4.073E-02	5.759E-03	5.348E-03	1.566E-04	1.131E-05	1.600E-06	1.486E-06
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	5.167E-01	3.740E-02	5.039E-03	4.649E-03	1.435E-04	1.039E-05	1.400E-06	1.292E-06
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV6_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	4.440E-02	8.000E-02	1.067E-01	1.511E-01	1.867E-01	2.490E-01	3.645E-01	4.535E-01	6.668E-01	8.713E-01	9.780E-01	1.156E+00	1.271E+00	1.334E+00	1.369E+00	1.405E+00	1.423E+00	1.423E+00
NO_2	1.730E-02	3.110E-02	4.150E-02	5.880E-02	7.260E-02	9.680E-02	1.418E-01	1.763E-01	2.593E-01	3.388E-01	3.803E-01	4.495E-01	4.944E-01	5.186E-01	5.325E-01	5.463E-01	5.532E-01	5.532E-01
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of LGV6**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	Total Starting Emission (g)			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.334E+00	5.186E-01	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	8.000E-02	3.110E-02	0.000E+00	0.000E+00
1000 - 1100	3.645E-01	1.418E-01	0.000E+00	0.000E+00
1100 - 1200	8.880E-02	3.460E-02	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	3.645E-01	1.418E-01	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	1.236E+00	4.806E-01	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.067E-01	4.150E-02	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.405E+00	5.463E-01	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV6_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV6s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV6 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	1.092E-01	4.248E-02	9.056E-04	9.056E-04
0800 - 0900	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	1.092E-01	4.248E-02	9.056E-04	9.056E-04
1100 - 1200	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	1.092E-01	4.248E-02	9.056E-04	9.056E-04
1400 - 1500	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	2.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	2.185E-01	8.497E-02	1.811E-03	1.811E-03
1600 - 1700	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	1.092E-01	4.248E-02	9.056E-04	9.056E-04
2100 - 2200	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	5.462E-02	2.124E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	LGV6 (Diesel)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	9.022E-02	3.509E-02	9.056E-04	9.056E-04
1000 - 1100	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	2.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	1.804E-01	7.017E-02	1.811E-03	1.811E-03
1200 - 1300	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	9.022E-02	3.509E-02	9.056E-04	9.056E-04
1800 - 1900	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.092E-01	4.248E-02	9.056E-04	9.056E-04	5.462E-02	2.124E-02	4.528E-04	4.528E-04	2.741E-01	1.066E-01	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	9.022E-02	3.509E-02	9.056E-04	9.056E-04	4.511E-02	1.754E-02	4.528E-04	4.528E-04	7.477E-03	2.905E-03	0.000E+00	0.000E+00
1000 - 1100	1.092E-01	4.248E-02	9.056E-04	9.056E-04	5.462E-02	2.124E-02	4.528E-04	4.528E-04	6.640E-02	2.583E-02	0.000E+00	0.000E+00
1100 - 1200	1.804E-01	7.017E-02	1.811E-03	1.811E-03	9.022E-02	3.509E-02	9.056E-04	9.056E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.092E-01	4.248E-02	9.056E-04	9.056E-04	5.462E-02	2.124E-02	4.528E-04	4.528E-04	6.640E-02	2.583E-02	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	2.185E-01	8.497E-02	1.811E-03	1.811E-03	1.092E-01	4.248E-02	9.056E-04	9.056E-04	2.414E-01	9.388E-02	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	9.022E-02	3.509E-02	9.056E-04	9.056E-04	4.511E-02	1.754E-02	4.528E-04	4.528E-04	1.320E-02	5.134E-03	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.092E-01	4.248E-02	9.056E-04	9.056E-04	5.462E-02	2.124E-02	4.528E-04	4.528E-04	2.893E-01	1.125E-01	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.005E+00	3.908E-01	0.000E+00	0.000E+00	2.792E-04	1.086E-04	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.741E-02	1.065E-02	0.000E+00	0.000E+00	7.615E-06	2.959E-06	0.000E+00	0.000E+00
1000 - 1100	2.435E-01	9.472E-02	0.000E+00	0.000E+00	6.763E-05	2.631E-05	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.435E-01	9.472E-02	0.000E+00	0.000E+00	6.763E-05	2.631E-05	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	8.852E-01	3.442E-01	0.000E+00	0.000E+00	2.459E-04	9.562E-05	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	4.839E-02	1.882E-02	0.000E+00	0.000E+00	1.344E-05	5.229E-06	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.061E+00	4.125E-01	0.000E+00	0.000E+00	2.947E-04	1.146E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV6)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	LGV6								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	3.031E-01	1.179E-01	1.008E-02	9.300E-03
0800 - 0900	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	3.031E-01	1.179E-01	1.008E-02	9.300E-03
1000 - 1100	1.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	3.031E-01	1.179E-01	1.008E-02	9.300E-03
1100 - 1200	3.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	9.093E-01	3.536E-01	3.024E-02	2.790E-02
1200 - 1300	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	6.062E-01	2.357E-01	2.016E-02	1.860E-02
1400 - 1500	1.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	3.031E-01	1.179E-01	1.008E-02	9.300E-03
1500 - 1600	2.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	6.062E-01	2.357E-01	2.016E-02	1.860E-02
1600 - 1700	1.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	3.031E-01	1.179E-01	1.008E-02	9.300E-03
1700 - 1800	1.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	3.031E-01	1.179E-01	1.008E-02	9.300E-03
1800 - 1900	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	3.031E-01	1.179E-01	1.008E-02	9.300E-03
2100 - 2200	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.010E+00	3.929E-01	3.360E-02	3.100E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating LGV6s =	2	min

Hour	LGV6								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	9.022E-02	3.509E-02	9.056E-04	9.056E-04
1200 - 1300	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	9.022E-02	3.509E-02	9.056E-04	9.056E-04
1400 - 1500	1.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	9.022E-02	3.509E-02	9.056E-04	9.056E-04
1500 - 1600	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	9.022E-02	3.509E-02	9.056E-04	9.056E-04
1700 - 1800	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.511E-02	1.754E-02	4.528E-04	4.528E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV6)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	6.864E-01	2.669E-01	1.099E-02	1.021E-02	1.907E-04	7.415E-05	3.052E-06	2.835E-06
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	4.008E-01	1.559E-01	1.099E-02	1.021E-02	1.113E-04	4.329E-05	3.052E-06	2.835E-06
1000 - 1100	4.787E-01	1.862E-01	1.099E-02	1.021E-02	1.330E-04	5.172E-05	3.052E-06	2.835E-06
1100 - 1200	1.180E+00	4.589E-01	3.296E-02	3.062E-02	3.278E-04	1.275E-04	9.155E-06	8.505E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	8.720E-01	3.391E-01	2.197E-02	2.041E-02	2.422E-04	9.421E-05	6.103E-06	5.670E-06
1400 - 1500	3.933E-01	1.530E-01	1.099E-02	1.021E-02	1.093E-04	4.249E-05	3.052E-06	2.835E-06
1500 - 1600	1.066E+00	4.146E-01	2.197E-02	2.041E-02	2.961E-04	1.152E-04	6.103E-06	5.670E-06
1600 - 1700	3.933E-01	1.530E-01	1.099E-02	1.021E-02	1.093E-04	4.249E-05	3.052E-06	2.835E-06
1700 - 1800	4.065E-01	1.581E-01	1.099E-02	1.021E-02	1.129E-04	4.391E-05	3.052E-06	2.835E-06
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	7.017E-01	2.729E-01	1.099E-02	1.021E-02	1.949E-04	7.580E-05	3.052E-06	2.835E-06
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV7_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	7.730E-02	1.391E-01	1.855E-01	2.627E-01	3.246E-01	4.328E-01	6.336E-01	7.882E-01	1.159E+00	1.515E+00	1.700E+00	2.009E+00	2.210E+00	2.318E+00	2.380E+00	2.442E+00	2.473E+00	2.473E+00
NO_2	3.690E-02	6.640E-02	8.860E-02	1.255E-01	1.550E-01	2.067E-01	3.027E-01	3.765E-01	5.537E-01	7.235E-01	8.121E-01	9.598E-01	1.056E+00	1.108E+00	1.137E+00	1.167E+00	1.181E+00	1.181E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of HGV7**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
0900 - 1000	1.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
1000 - 1100	1.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	1.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
1500 - 1600	2.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.473E+00	1.181E+00	0.000E+00	0.000E+00
4.945E+00	2.363E+00	0.000E+00	0.000E+00
5.363E+00	2.562E+00	0.000E+00	0.000E+00
6.027E-01	2.879E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.719E-01	2.731E-01	0.000E+00	0.000E+00
3.184E+00	1.521E+00	0.000E+00	0.000E+00
7.882E-01	3.765E-01	0.000E+00	0.000E+00
3.400E-01	1.624E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.873E-01	2.805E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV7_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV7s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV7 (Diesel)									HGV7 (Diesel)									
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	4.846E-01	2.234E-01	9.587E-04	9.587E-04	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	2.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	9.691E-01	4.469E-01	1.917E-03	1.917E-03	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	9.691E-01	4.469E-01	1.917E-03	1.917E-03	3.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	2.694E-01	1.242E-01	2.876E-03	2.876E-03
1000 - 1100	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	2.694E-01	1.242E-01	2.876E-03	2.876E-03
1100 - 1200	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	1.796E-01	8.280E-02	1.917E-03	1.917E-03
1400 - 1500	1.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	4.846E-01	2.234E-01	9.587E-04	9.587E-04	3.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	2.694E-01	1.242E-01	2.876E-03	2.876E-03
1500 - 1600	1.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	4.846E-01	2.234E-01	9.587E-04	9.587E-04	2.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	1.796E-01	8.280E-02	1.917E-03	1.917E-03
1600 - 1700	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	1.796E-01	8.280E-02	1.917E-03	1.917E-03
1700 - 1800	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	1.796E-01	8.280E-02	1.917E-03	1.917E-03
1900 - 2000	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.423E-01	1.117E-01	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	4.846E-01	2.234E-01	9.587E-04	9.587E-04	2.423E-01	1.117E-01	4.794E-04	4.794E-04	4.779E-01	2.292E-01	0.000E+00	0.000E+00	1.752E+00	8.404E-01	0.000E+00	0.000E+00	4.868E-04	2.334E-04	0.000E+00	0.000E+00
0800 - 0900	9.691E-01	4.469E-01	1.917E-03	1.917E-03	4.846E-01	2.234E-01	9.587E-04	9.587E-04	9.559E-01	4.584E-01	0.000E+00	0.000E+00	3.505E+00	1.681E+00	0.000E+00	0.000E+00	9.736E-04	4.669E-04	0.000E+00	0.000E+00
0900 - 1000	1.238E+00	5.711E-01	4.794E-03	4.794E-03	6.192E-01	2.855E-01	2.397E-03	2.397E-03	1.016E+00	4.878E-01	0.000E+00	0.000E+00	3.727E+00	1.789E+00	0.000E+00	0.000E+00	1.035E-03	4.968E-04	0.000E+00	0.000E+00
1000 - 1100	2.694E-01	1.242E-01	2.876E-03	2.876E-03	1.347E-01	6.210E-02	1.438E-03	1.438E-03	1.003E-01	4.838E-02	0.000E+00	0.000E+00	3.677E-01	1.774E-01	0.000E+00	0.000E+00	1.021E-04	4.928E-05	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.796E-01	8.280E-02	1.917E-03	1.917E-03	8.979E-02	4.140E-02	9.587E-04	9.587E-04	1.033E-01	4.965E-02	0.000E+00	0.000E+00	3.788E-01	1.820E-01	0.000E+00	0.000E+00	1.052E-04	5.057E-05	0.000E+00	0.000E+00
1400 - 1500	7.539E-01	3.476E-01	3.835E-03	3.835E-03	3.770E-01	1.738E-01	1.917E-03	1.917E-03	6.014E-01	2.887E-01	0.000E+00	0.000E+00	2.205E+00	1.058E+00	0.000E+00	0.000E+00	6.126E-04	2.940E-04	0.000E+00	0.000E+00
1500 - 1600	6.641E-01	3.062E-01	2.876E-03	2.876E-03	3.321E-01	1.531E-01	1.438E-03	1.438E-03	9.774E-02	4.787E-02	0.000E+00	0.000E+00	3.584E-01	1.755E-01	0.000E+00	0.000E+00	9.955E-05	4.875E-05	0.000E+00	0.000E+00
1600 - 1700	1.796E-01	8.280E-02	1.917E-03	1.917E-03	8.979E-02	4.140E-02	9.587E-04	9.587E-04	5.362E-02	2.593E-02	0.000E+00	0.000E+00	1.966E-01	9.507E-02	0.000E+00	0.000E+00	5.461E-05	2.641E-05	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.796E-01	8.280E-02	1.917E-03	1.917E-03	8.979E-02	4.140E-02	9.587E-04	9.587E-04	1.066E-01	5.124E-02	0.000E+00	0.000E+00	3.909E-01	1.879E-01	0.000E+00	0.000E+00	1.086E-04	5.218E-05	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV7)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV7							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	4.729E-01	2.180E-01	1.908E-02	1.758E-02
0800 - 0900	2.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	9.457E-01	4.361E-01	3.816E-02	3.516E-02
0900 - 1000	5.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	2.364E+00	1.090E+00	9.540E-02	8.790E-02
1000 - 1100	3.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	1.419E+00	6.541E-01	5.724E-02	5.274E-02
1100 - 1200	1.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	4.729E-01	2.180E-01	1.908E-02	1.758E-02
1200 - 1300	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	9.457E-01	4.361E-01	3.816E-02	3.516E-02
1400 - 1500	5.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	2.364E+00	1.090E+00	9.540E-02	8.790E-02
1500 - 1600	3.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	1.419E+00	6.541E-01	5.724E-02	5.274E-02
1600 - 1700	3.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	1.419E+00	6.541E-01	5.724E-02	5.274E-02
1700 - 1800	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	3.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	1.419E+00	6.541E-01	5.724E-02	5.274E-02
1900 - 2000	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.576E+00	7.268E-01	6.360E-02	5.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV7s =	2	min

Hour	Frequency	HGV7							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	8.979E-02	4.140E-02	9.587E-04	9.587E-04
1200 - 1300	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	8.979E-02	4.140E-02	9.587E-04	9.587E-04
1500 - 1600	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	8.979E-02	4.140E-02	9.587E-04	9.587E-04
1700 - 1800	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	8.979E-02	4.140E-02	9.587E-04	9.587E-04
1900 - 2000	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.489E-02	2.070E-02	4.794E-04	4.794E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV7)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.435E+00	6.707E-01	2.004E-02	1.854E-02	3.987E-04	1.863E-04	5.566E-06	5.150E-06
0800 - 0900	2.871E+00	1.341E+00	4.008E-02	3.708E-02	7.974E-04	3.726E-04	1.113E-05	1.030E-05
0900 - 1000	4.619E+00	2.149E+00	1.002E-01	9.269E-02	1.283E-03	5.970E-04	2.783E-05	2.575E-05
1000 - 1100	1.788E+00	8.267E-01	6.012E-02	5.562E-02	4.967E-04	2.296E-04	1.670E-05	1.545E-05
1100 - 1200	5.626E-01	2.594E-01	2.004E-02	1.854E-02	1.563E-04	7.207E-05	5.566E-06	5.150E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.229E+00	5.685E-01	4.008E-02	3.708E-02	3.413E-04	1.579E-04	1.113E-05	1.030E-05
1400 - 1500	3.809E+00	1.768E+00	1.002E-01	9.269E-02	1.058E-03	4.911E-04	2.783E-05	2.575E-05
1500 - 1600	2.180E+00	1.008E+00	6.012E-02	5.562E-02	6.057E-04	2.801E-04	1.670E-05	1.545E-05
1600 - 1700	1.742E+00	8.043E-01	6.012E-02	5.562E-02	4.838E-04	2.234E-04	1.670E-05	1.545E-05
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.795E+00	8.296E-01	6.012E-02	5.562E-02	4.985E-04	2.304E-04	1.670E-05	1.545E-05
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV8_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	1.081E-01	1.947E-01	2.595E-01	3.676E-01	4.541E-01	6.055E-01	8.866E-01	1.103E+00	1.622E+00	2.119E+00	2.379E+00	2.811E+00	3.092E+00	3.244E+00	3.330E+00	3.417E+00	3.460E+00	3.460E+00
NO_2	3.700E-02	6.650E-02	8.870E-02	1.257E-01	1.553E-01	2.070E-01	3.032E-01	3.771E-01	5.545E-01	7.246E-01	8.133E-01	9.612E-01	1.057E+00	1.109E+00	1.139E+00	1.168E+00	1.183E+00	1.183E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of HGV8**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	1.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.460E+00	1.183E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.081E-01	3.700E-02	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
6.055E-01	2.070E-01	0.000E+00	0.000E+00
8.866E-01	3.032E-01	0.000E+00	0.000E+00
1.081E-01	3.700E-02	0.000E+00	0.000E+00
2.033E+00	6.951E-01	0.000E+00	0.000E+00
4.542E-01	1.552E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
9.947E-01	3.402E-01	0.000E+00	0.000E+00
8.002E-01	2.735E-01	0.000E+00	0.000E+00
2.465E+00	8.429E-01	0.000E+00	0.000E+00
8.866E-01	3.032E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV8_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV8s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV8 (Diesel)									HGV8 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	5.242E-01	2.020E-01	9.087E-04	9.087E-04	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	9.270E-02	3.573E-02	9.087E-04	9.087E-04
0900 - 1000	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	9.270E-02	3.573E-02	9.087E-04	9.087E-04
1100 - 1200	1.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	5.242E-01	2.020E-01	9.087E-04	9.087E-04	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	9.270E-02	3.573E-02	9.087E-04	9.087E-04
1300 - 1400	2.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	1.048E+00	4.041E-01	1.817E-03	1.817E-03	1.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	9.270E-02	3.573E-02	9.087E-04	9.087E-04
1400 - 1500	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	1.854E-01	7.146E-02	1.817E-03	1.817E-03
1500 - 1600	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	5.242E-01	2.020E-01	9.087E-04	9.087E-04	1.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	9.270E-02	3.573E-02	9.087E-04	9.087E-04
1700 - 1800	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	1.854E-01	7.146E-02	1.817E-03	1.817E-03
1800 - 1900	2.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	1.048E+00	4.041E-01	1.817E-03	1.817E-03	1.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	9.270E-02	3.573E-02	9.087E-04	9.087E-04
1900 - 2000	1.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	5.242E-01	2.020E-01	9.087E-04	9.087E-04	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.621E-01	1.010E-01	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	5.242E-01	2.020E-01	9.087E-04	9.087E-04	2.621E-01	1.010E-01	4.543E-04	4.543E-04	6.853E-01	2.319E-01	0.000E+00	0.000E+00	2.513E+00	8.501E-01	0.000E+00	0.000E+00	6.980E-04	2.361E-04	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	9.270E-02	3.573E-02	9.087E-04	9.087E-04	4.635E-02	1.787E-02	4.543E-04	4.543E-04	1.323E-02	4.100E-03	0.000E+00	0.000E+00	4.852E-02	1.503E-02	0.000E+00	0.000E+00	1.348E-05	4.176E-06	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	9.270E-02	3.573E-02	9.087E-04	9.087E-04	4.635E-02	1.787E-02	4.543E-04	4.543E-04	1.198E-01	4.053E-02	0.000E+00	0.000E+00	4.393E-01	1.486E-01	0.000E+00	0.000E+00	1.220E-04	4.128E-05	0.000E+00	0.000E+00
1100 - 1200	5.242E-01	2.020E-01	9.087E-04	9.087E-04	2.621E-01	1.010E-01	4.543E-04	4.543E-04	1.338E-01	4.332E-02	0.000E+00	0.000E+00	4.907E-01	1.589E-01	0.000E+00	0.000E+00	1.363E-04	4.413E-05	0.000E+00	0.000E+00
1200 - 1300	9.270E-02	3.573E-02	9.087E-04	9.087E-04	4.635E-02	1.787E-02	4.543E-04	4.543E-04	1.323E-02	4.100E-03	0.000E+00	0.000E+00	4.852E-02	1.503E-02	0.000E+00	0.000E+00	1.348E-05	4.176E-06	0.000E+00	0.000E+00
1300 - 1400	1.141E+00	4.398E-01	2.726E-03	2.726E-03	5.705E-01	2.199E-01	1.363E-03	1.363E-03	3.133E-01	1.018E-01	0.000E+00	0.000E+00	1.149E+00	3.734E-01	0.000E+00	0.000E+00	3.191E-04	1.037E-04	0.000E+00	0.000E+00
1400 - 1500	1.854E-01	7.146E-02	1.817E-03	1.817E-03	9.270E-02	3.573E-02	9.087E-04	9.087E-04	7.747E-02	2.560E-02	0.000E+00	0.000E+00	2.840E-01	9.387E-02	0.000E+00	0.000E+00	7.890E-05	2.607E-05	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	6.169E-01	2.378E-01	1.817E-03	1.817E-03	3.084E-01	1.189E-01	9.087E-04	9.087E-04	1.471E-01	4.742E-02	0.000E+00	0.000E+00	5.392E-01	1.739E-01	0.000E+00	0.000E+00	1.498E-04	4.830E-05	0.000E+00	0.000E+00
1700 - 1800	1.854E-01	7.146E-02	1.817E-03	1.817E-03	9.270E-02	3.573E-02	9.087E-04	9.087E-04	1.516E-01	5.095E-02	0.000E+00	0.000E+00	5.559E-01	1.868E-01	0.000E+00	0.000E+00	1.544E-04	5.189E-05	0.000E+00	0.000E+00
1800 - 1900	1.141E+00	4.398E-01	2.726E-03	2.726E-03	5.705E-01	2.199E-01	1.363E-03	1.363E-03	4.060E-01	1.335E-01	0.000E+00	0.000E+00	1.489E+00	4.895E-01	0.000E+00	0.000E+00	4.135E-04	1.360E-04	0.000E+00	0.000E+00
1900 - 2000	5.242E-01	2.020E-01	9.087E-04	9.087E-04	2.621E-01	1.010E-01	4.543E-04	4.543E-04	1.338E-01	4.332E-02	0.000E+00	0.000E+00	4.907E-01	1.589E-01	0.000E+00	0.000E+00	1.363E-04	4.413E-05	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV8)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV8							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	9.880E-01	3.808E-01	3.600E-02	3.312E-02
0700 - 0800	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	9.880E-01	3.808E-01	3.600E-02	3.312E-02
0900 - 1000	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	9.880E-01	3.808E-01	3.600E-02	3.312E-02
1100 - 1200	1.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	9.880E-01	3.808E-01	3.600E-02	3.312E-02
1200 - 1300	3.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	2.964E+00	1.143E+00	1.080E-01	9.936E-02
1300 - 1400	3.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	2.964E+00	1.143E+00	1.080E-01	9.936E-02
1400 - 1500	2.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	1.976E+00	7.617E-01	7.200E-02	6.624E-02
1500 - 1600	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	1.976E+00	7.617E-01	7.200E-02	6.624E-02
1700 - 1800	2.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	1.976E+00	7.617E-01	7.200E-02	6.624E-02
1800 - 1900	4.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	3.952E+00	1.523E+00	1.440E-01	1.325E-01
1900 - 2000	1.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	9.880E-01	3.808E-01	3.600E-02	3.312E-02
2000 - 2100	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.293E+00	1.269E+00	1.200E-01	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV8s =	2	min

Hour	Frequency	HGV8							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	2.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	1.854E-01	7.146E-02	1.817E-03	1.817E-03
1300 - 1400	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	9.270E-02	3.573E-02	9.087E-04	9.087E-04
1900 - 2000	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.635E-02	1.787E-02	4.543E-04	4.543E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV8)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.197E+00	8.147E-01	3.691E-02	3.403E-02	6.104E-04	2.263E-04	1.025E-05	9.452E-06
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.094E+00	4.207E-01	3.691E-02	3.403E-02	3.039E-04	1.169E-04	1.025E-05	9.452E-06
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.201E+00	4.571E-01	3.691E-02	3.403E-02	3.335E-04	1.270E-04	1.025E-05	9.452E-06
1100 - 1200	1.646E+00	6.262E-01	3.691E-02	3.403E-02	4.572E-04	1.739E-04	1.025E-05	9.452E-06
1200 - 1300	3.255E+00	1.254E+00	1.107E-01	1.021E-01	9.043E-04	3.483E-04	3.076E-05	2.836E-05
1300 - 1400	4.419E+00	1.684E+00	1.107E-01	1.021E-01	1.227E-03	4.678E-04	3.076E-05	2.836E-05
1400 - 1500	2.239E+00	8.588E-01	7.382E-02	6.806E-02	6.219E-04	2.385E-04	2.050E-05	1.890E-05
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.740E+00	1.047E+00	7.382E-02	6.806E-02	7.611E-04	2.908E-04	2.050E-05	1.890E-05
1700 - 1800	2.313E+00	8.841E-01	7.382E-02	6.806E-02	6.425E-04	2.456E-04	2.050E-05	1.890E-05
1800 - 1900	5.592E+00	2.132E+00	1.476E-01	1.361E-01	1.553E-03	5.923E-04	4.101E-05	3.781E-05
1900 - 2000	1.646E+00	6.262E-01	3.691E-02	3.403E-02	4.572E-04	1.739E-04	1.025E-05	9.452E-06
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV9_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	1.153E-01	2.076E-01	2.768E-01	3.922E-01	4.844E-01	6.460E-01	9.458E-01	1.177E+00	1.730E+00	2.261E+00	2.538E+00	2.999E+00	3.299E+00	3.461E+00	3.553E+00	3.645E+00	3.691E+00	3.691E+00
NO_2	3.580E-02	6.440E-02	8.590E-02	1.216E-01	1.503E-01	2.003E-01	2.934E-01	3.649E-01	5.366E-01	7.012E-01	7.870E-01	9.301E-01	1.023E+00	1.073E+00	1.102E+00	1.131E+00	1.145E+00	1.145E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	No. of Cold Starts of HGV9																		Total Starting Emission (g)			
Sitting Time (min)	5	10	20	30	40	50	60	120	180	240	300	360	420	480	540	600	660	720	NO	NO_2	RSP	FSP
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	3.691E+00	1.145E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	4.176E+00	1.295E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	3.691E+00	1.145E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.766E-01	2.719E-01	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.261E+00	7.012E-01	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.207E+00	9.946E-01	0.000E+00	0.000E+00
1500 - 1600	0.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.084E+00	3.363E-01	0.000E+00	0.000E+00
1600 - 1700	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.921E-01	1.217E-01	0.000E+00	0.000E+00
1700 - 1800	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.768E+00	8.586E-01	0.000E+00	0.000E+00
1800 - 1900	2.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.150E-01	2.219E-01	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.261E+00	7.012E-01	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV9_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV9s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV9 (Diesel)									HGV9 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	5.969E-01	2.115E-01	1.256E-03	1.256E-03	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	5.969E-01	2.115E-01	1.256E-03	1.256E-03	2.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	2.547E-01	9.027E-02	2.513E-03	2.513E-03
0900 - 1000	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	5.969E-01	2.115E-01	1.256E-03	1.256E-03	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	2.547E-01	9.027E-02	2.513E-03	2.513E-03
1300 - 1400	1.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	5.969E-01	2.115E-01	1.256E-03	1.256E-03	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	2.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	1.194E+00	4.231E-01	2.513E-03	2.513E-03	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	3.821E-01	1.354E-01	3.769E-03	3.769E-03
1600 - 1700	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	2.547E-01	9.027E-02	2.513E-03	2.513E-03
1700 - 1800	1.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	5.969E-01	2.115E-01	1.256E-03	1.256E-03	2.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	2.547E-01	9.027E-02	2.513E-03	2.513E-03
1800 - 1900	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	3.821E-01	1.354E-01	3.769E-03	3.769E-03
1900 - 2000	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	5.969E-01	2.115E-01	1.256E-03	1.256E-03	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.984E-01	1.058E-01	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	5.969E-01	2.115E-01	1.256E-03	1.256E-03	2.984E-01	1.058E-01	6.282E-04	6.282E-04	7.270E-01	2.226E-01	0.000E+00	0.000E+00	2.666E+00	8.164E-01	0.000E+00	0.000E+00	7.405E-04	2.268E-04	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	8.516E-01	3.018E-01	3.769E-03	3.769E-03	4.258E-01	1.509E-01	1.885E-03	1.885E-03	8.036E-01	2.452E-01	0.000E+00	0.000E+00	2.946E+00	8.990E-01	0.000E+00	0.000E+00	8.184E-04	2.497E-04	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	5.969E-01	2.115E-01	1.256E-03	1.256E-03	2.984E-01	1.058E-01	6.282E-04	6.282E-04	7.270E-01	2.226E-01	0.000E+00	0.000E+00	2.666E+00	8.164E-01	0.000E+00	0.000E+00	7.405E-04	2.268E-04	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	2.547E-01	9.027E-02	2.513E-03	2.513E-03	1.274E-01	4.514E-02	1.256E-03	1.256E-03	1.606E-01	4.859E-02	0.000E+00	0.000E+00	5.887E-01	1.782E-01	0.000E+00	0.000E+00	1.635E-04	4.949E-05	0.000E+00	0.000E+00
1300 - 1400	5.969E-01	2.115E-01	1.256E-03	1.256E-03	2.984E-01	1.058E-01	6.282E-04	6.282E-04	4.205E-01	1.276E-01	0.000E+00	0.000E+00	1.542E+00	4.678E-01	0.000E+00	0.000E+00	4.283E-04	1.300E-04	0.000E+00	0.000E+00
1400 - 1500	1.194E+00	4.231E-01	2.513E-03	2.513E-03	5.969E-01	2.115E-01	1.256E-03	1.256E-03	5.592E-01	1.678E-01	0.000E+00	0.000E+00	2.051E+00	6.153E-01	0.000E+00	0.000E+00	5.696E-04	1.709E-04	0.000E+00	0.000E+00
1500 - 1600	3.821E-01	1.354E-01	3.769E-03	3.769E-03	1.910E-01	6.770E-02	1.885E-03	1.885E-03	1.914E-01	5.756E-02	0.000E+00	0.000E+00	7.018E-01	2.110E-01	0.000E+00	0.000E+00	1.949E-04	5.862E-05	0.000E+00	0.000E+00
1600 - 1700	2.547E-01	9.027E-02	2.513E-03	2.513E-03	1.274E-01	4.514E-02	1.256E-03	1.256E-03	5.673E-02	1.641E-02	0.000E+00	0.000E+00	2.080E-01	6.016E-02	0.000E+00	0.000E+00	5.778E-05	1.671E-05	0.000E+00	0.000E+00
1700 - 1800	8.516E-01	3.018E-01	3.769E-03	3.769E-03	4.258E-01	1.509E-01	1.885E-03	1.885E-03	5.020E-01	1.516E-01	0.000E+00	0.000E+00	1.841E+00	5.560E-01	0.000E+00	0.000E+00	5.113E-04	1.545E-04	0.000E+00	0.000E+00
1800 - 1900	3.821E-01	1.354E-01	3.769E-03	3.769E-03	1.910E-01	6.770E-02	1.885E-03	1.885E-03	1.123E-01	3.304E-02	0.000E+00	0.000E+00	4.117E-01	1.212E-01	0.000E+00	0.000E+00	1.144E-04	3.365E-05	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	5.969E-01	2.115E-01	1.256E-03	1.256E-03	2.984E-01	1.058E-01	6.282E-04	6.282E-04	4.205E-01	1.276E-01	0.000E+00	0.000E+00	1.542E+00	4.678E-01	0.000E+00	0.000E+00	4.283E-04	1.300E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV9)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV9							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	1.089E+00	3.861E-01	3.990E-02	3.672E-02
0700 - 0800	1.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	1.089E+00	3.861E-01	3.990E-02	3.672E-02
0800 - 0900	3.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	3.268E+00	1.158E+00	1.197E-01	1.102E-01
0900 - 1000	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	1.089E+00	3.861E-01	3.990E-02	3.672E-02
1100 - 1200	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	3.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	3.268E+00	1.158E+00	1.197E-01	1.102E-01
1300 - 1400	1.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	1.089E+00	3.861E-01	3.990E-02	3.672E-02
1400 - 1500	2.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	2.179E+00	7.722E-01	7.980E-02	7.344E-02
1500 - 1600	5.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	5.447E+00	1.930E+00	1.995E-01	1.836E-01
1600 - 1700	2.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	2.179E+00	7.722E-01	7.980E-02	7.344E-02
1700 - 1800	3.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	3.268E+00	1.158E+00	1.197E-01	1.102E-01
1800 - 1900	3.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	3.268E+00	1.158E+00	1.197E-01	1.102E-01
1900 - 2000	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	1.089E+00	3.861E-01	3.990E-02	3.672E-02
2100 - 2200	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.631E+00	1.287E+00	1.330E-01	1.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV9s =	2	min

Hour	Frequency	HGV9							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	1.274E-01	4.514E-02	1.256E-03	1.256E-03
0800 - 0900	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	1.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	1.274E-01	4.514E-02	1.256E-03	1.256E-03
1300 - 1400	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	2.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	2.547E-01	9.027E-02	2.513E-03	2.513E-03
1600 - 1700	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	6.368E-02	2.257E-02	6.282E-04	6.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV9)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.413E+00	8.203E-01	4.116E-02	3.798E-02	6.704E-04	2.279E-04	1.143E-05	1.055E-05
0700 - 0800	1.217E+00	4.312E-01	4.116E-02	3.798E-02	3.380E-04	1.198E-04	1.143E-05	1.055E-05
0800 - 0900	4.923E+00	1.705E+00	1.235E-01	1.139E-01	1.368E-03	4.737E-04	3.430E-05	3.165E-05
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	2.413E+00	8.203E-01	4.116E-02	3.798E-02	6.704E-04	2.279E-04	1.143E-05	1.055E-05
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	3.811E+00	1.342E+00	1.235E-01	1.139E-01	1.059E-03	3.729E-04	3.430E-05	3.165E-05
1300 - 1400	2.107E+00	7.252E-01	4.116E-02	3.798E-02	5.852E-04	2.015E-04	1.143E-05	1.055E-05
1400 - 1500	3.932E+00	1.363E+00	8.231E-02	7.595E-02	1.092E-03	3.786E-04	2.286E-05	2.110E-05
1500 - 1600	6.275E+00	2.214E+00	2.058E-01	1.899E-01	1.743E-03	6.149E-04	5.716E-05	5.274E-05
1600 - 1700	2.490E+00	8.789E-01	8.231E-02	7.595E-02	6.917E-04	2.441E-04	2.286E-05	2.110E-05
1700 - 1800	4.622E+00	1.612E+00	1.235E-01	1.139E-01	1.284E-03	4.477E-04	3.430E-05	3.165E-05
1800 - 1900	3.763E+00	1.327E+00	1.235E-01	1.139E-01	1.045E-03	3.685E-04	3.430E-05	3.165E-05
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.107E+00	7.252E-01	4.116E-02	3.798E-02	5.852E-04	2.015E-04	1.143E-05	1.055E-05
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Routing of Start Emission outside parking area

Bus Terminus / Carpark	Fuel Type	Source ID	Travel Distance outside Bus Terminus / Carpark (m)	Area (m^2)	% of Flow	Max. Hourly Emission Rate (g/s)				Max. Hourly Emission Rate ($g/m^2/s$)			
						NO	NO2	RSP	FSP	NO	NO2	RSP	FSP
Lok Ma Chau Station PTI	Diesel	**Total**	**650**	**-**	**100%**	**2.157E-03**	**2.366E-04**	**0.000E+00**	**0.000E+00**	**-**	**-**	**-**	**-**
		LMCSD1	48	772	100%	1.601E-04	1.756E-05	0.000E+00	0.000E+00	2.074E-07	2.275E-08	0.000E+00	0.000E+00
		LMCSD2	31	616	100%	1.022E-04	1.121E-05	0.000E+00	0.000E+00	1.659E-07	1.820E-08	0.000E+00	0.000E+00
		LMCSD3	466	6060	100%	1.547E-03	1.697E-04	0.000E+00	0.000E+00	2.552E-07	2.800E-08	0.000E+00	0.000E+00
		LMCSD4	105	1363	100%	3.478E-04	3.816E-05	0.000E+00	0.000E+00	2.552E-07	2.800E-08	0.000E+00	0.000E+00
	LPG	**Total**	**100**	**-**	**100%**	**1.299E-03**	**6.544E-06**	**0.000E+00**	**0.000E+00**	**-**	**-**	**-**	**-**
		LMCSL1	48	772	100%	6.266E-04	3.157E-06	0.000E+00	0.000E+00	8.118E-07	4.090E-09	0.000E+00	0.000E+00
		LMCSL2	31	616	100%	4.000E-04	2.015E-06	0.000E+00	0.000E+00	6.494E-07	3.272E-09	0.000E+00	0.000E+00
		LMCSL3	21	272	100%	2.722E-04	1.371E-06	0.000E+00	0.000E+00	9.991E-07	5.034E-09	0.000E+00	0.000E+00
Lok Ma Chau Loop PTI	Diesel	**Total**	**600**	**-**	**100%**	**9.639E-03**	**8.769E-04**	**0.000E+00**	**0.000E+00**	**-**	**-**	**-**	**-**
		LMCLS1	169	2532	100%	2.712E-03	2.467E-04	0.000E+00	0.000E+00	1.071E-06	9.743E-08	0.000E+00	0.000E+00
		LMCLS2	217	3042	100%	3.491E-03	3.176E-04	0.000E+00	0.000E+00	1.148E-06	1.044E-07	0.000E+00	0.000E+00
		LMCLS3	52	830	80%	6.671E-04	6.068E-05	0.000E+00	0.000E+00	8.033E-07	7.307E-08	0.000E+00	0.000E+00
		LMCLS4	42	508	80%	5.436E-04	4.945E-05	0.000E+00	0.000E+00	1.071E-06	9.743E-08	0.000E+00	0.000E+00
		LMCLS5	120	958	80%	1.539E-03	1.400E-04	0.000E+00	0.000E+00	1.606E-06	1.461E-07	0.000E+00	0.000E+00
		LMCLS6	50	1108	20%	1.618E-04	1.472E-05	0.000E+00	0.000E+00	1.460E-07	1.329E-08	0.000E+00	0.000E+00
		LMCLS7	41	1079	20%	1.333E-04	1.213E-05	0.000E+00	0.000E+00	1.236E-07	1.124E-08	0.000E+00	0.000E+00
		LMCLS8	34	1084	20%	1.089E-04	9.905E-06	0.000E+00	0.000E+00	1.004E-07	9.134E-09	0.000E+00	0.000E+00
		LMCLS9	64	1538	20%	2.060E-04	1.874E-05	0.000E+00	0.000E+00	1.339E-07	1.218E-08	0.000E+00	0.000E+00
		LMCLS10	24	433	20%	7.731E-05	7.034E-06	0.000E+00	0.000E+00	1.785E-07	1.624E-08	0.000E+00	0.000E+00
Ma Po Warehouse	Diesel	**Total**	**600**	**-**	**100%**	**7.055E-04**	**2.924E-04**	**0.000E+00**	**0.000E+00**	**-**	**-**	**-**	**-**
		MPS1	144	1722	100%	1.688E-04	6.996E-05	0.000E+00	0.000E+00	9.803E-08	4.063E-08	0.000E+00	0.000E+00
		MPS2	56	1011	100%	6.631E-05	2.748E-05	0.000E+00	0.000E+00	6.557E-08	2.718E-08	0.000E+00	0.000E+00
		MPS3	400	5201	20%	9.408E-05	3.900E-05	0.000E+00	0.000E+00	1.809E-08	7.498E-09	0.000E+00	0.000E+00
		MPS4	400	5201	80%	3.763E-04	1.560E-04	0.000E+00	0.000E+00	7.236E-08	2.999E-08	0.000E+00	0.000E+00
Mega Wheel Warehouse	Diesel	**Total**	**500**	**-**	**100%**	**3.725E-03**	**1.523E-03**	**0.000E+00**	**0.000E+00**	**-**	**-**	**-**	**-**
		MWS1	248	2973	100%	1.847E-03	7.549E-04	0.000E+00	0.000E+00	6.212E-07	2.539E-07	0.000E+00	0.000E+00
		MWS2	56	1011	100%	4.202E-04	1.717E-04	0.000E+00	0.000E+00	4.155E-07	1.698E-07	0.000E+00	0.000E+00
		MWS3	196	2544	20%	2.917E-04	1.192E-04	0.000E+00	0.000E+00	1.146E-07	4.685E-08	0.000E+00	0.000E+00
		MWS4	196	2544	80%	1.167E-03	4.769E-04	0.000E+00	0.000E+00	4.585E-07	1.874E-07	0.000E+00	0.000E+00
Hop Kwan Hung To Parking Lot	Diesel	**Total**	**550**	**-**	**100%**	**1.806E-03**	**7.208E-04**	**0.000E+00**	**0.000E+00**	**-**	**-**	**-**	**-**
		HKHTS1	189	1887	100%	6.194E-04	2.473E-04	0.000E+00	0.000E+00	3.283E-07	1.311E-07	0.000E+00	0.000E+00
		HKHTS2	361	4710	30%	3.558E-04	1.421E-04	0.000E+00	0.000E+00	7.556E-08	3.016E-08	0.000E+00	0.000E+00
		HKHTS3	361	4710	70%	8.303E-04	3.315E-04	0.000E+00	0.000E+00	1.763E-07	7.038E-08	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Emission Inventory for AERMOD Model (Operation Phase – Year 2031)

Bus Terminus / Carpark	Source ID	Type	X	Y	Release Height	Operation Period	Area for PTI / Carpark	No. of Vertices	Max. Hourly Emission Rate			
									NO	NO2	RSP	FSP
			(m)	(m)	(mAG)	(hr)	(for AREAPOLY)	(for AREAPOLY)	($g/m^2/s$)			
Emission inside Parking Area												
Lok Ma Chau Station PTI	LMCS1	AREAPOLY	824893.00	841787.87	0.00	24	1882.63	4	1.913E-06	1.482E-07	4.053E-08	3.759E-08
Lok Ma Chau Loop PTI	LMCL1	AREAPOLY	825797.62	841881.34	0.00	24	7420.43	4	2.862E-06	2.284E-07	8.407E-08	7.764E-08
Mai Po Warehouse	MP1	AREAPOLY	824222.20	839630.93	0.00	24	5099.27	9	2.028E-07	9.156E-08	4.556E-09	4.227E-09
Mega Wheel Warehouse	MW1	AREAPOLY	824054.17	839702.44	0.00	24	21609.32	9	3.013E-07	1.098E-07	1.079E-08	1.027E-08
Hop Kwan Hung To Parking Lot	HKHT1	AREAPOLY	824157.70	839292.32	0.00	24	9713.84	9	2.871E-07	1.051E-07	1.046E-08	9.966E-09
Start Emission outside Parking Area												
Lok Ma Chau Station PTI	LMCSD1	AREAPOLY	824901.01	841800.04	3.91	24	771.94	4	2.074E-07	2.275E-08	0.000E+00	0.000E+00
	LMCSD2	AREAPOLY	824939.75	841794.93	3.91	24	615.97	4	1.659E-07	1.820E-08	0.000E+00	0.000E+00
	LMCSD3	AREAPOLY	824946.41	841832.82	3.91	24	6059.85	6	2.552E-07	2.800E-08	0.000E+00	0.000E+00
	LMCSD4	AREAPOLY	825396.34	841921.14	3.91	24	1362.57	4	2.552E-07	2.800E-08	0.000E+00	0.000E+00
	LMCSL1	AREAPOLY	824901.01	841800.04	3.91	24	771.94	4	8.118E-07	4.090E-09	0.000E+00	0.000E+00
	LMCSL2	AREAPOLY	824939.75	841794.93	3.91	24	615.97	4	6.494E-07	3.272E-09	0.000E+00	0.000E+00
	LMCSL3	AREAPOLY	824946.41	841832.82	3.91	24	272.41	4	9.991E-07	5.034E-09	0.000E+00	0.000E+00
Lok Ma Chau Loop PTI	LMCLS1	AREAPOLY	825764.76	842046.12	3.91	24	2531.78	4	1.071E-06	9.743E-08	0.000E+00	0.000E+00
	LMCLS2	AREAPOLY	825765.91	842055.70	3.91	24	3042.10	8	1.148E-06	1.044E-07	0.000E+00	0.000E+00
	LMCLS3	AREAPOLY	825645.91	841877.82	3.91	24	830.44	4	8.033E-07	7.307E-08	0.000E+00	0.000E+00
	LMCLS4	AREAPOLY	825637.99	841828.94	3.91	24	507.53	4	1.071E-06	9.743E-08	0.000E+00	0.000E+00
	LMCLS5	AREAPOLY	825615.48	841794.48	3.91	24	957.69	6	1.606E-06	1.461E-07	0.000E+00	0.000E+00
	LMCLS6	AREAPOLY	825658.21	841886.19	3.91	24	1108.14	4	1.460E-07	1.329E-08	0.000E+00	0.000E+00
	LMCLS7	AREAPOLY	825689.07	841848.24	3.91	24	1078.66	4	1.236E-07	1.124E-08	0.000E+00	0.000E+00
	LMCLS8	AREAPOLY	825707.82	841817.88	3.91	24	1084.37	4	1.004E-07	9.134E-09	0.000E+00	0.000E+00
	LMCLS9	AREAPOLY	825719.29	841790.19	3.91	24	1538.42	6	1.339E-07	1.218E-08	0.000E+00	0.000E+00
	LMCLS10	AREAPOLY	825723.44	841733.37	3.91	24	433.14	4	1.785E-07	1.624E-08	0.000E+00	0.000E+00
Ma Po Warehouse	MPS1	AREAPOLY	824308.80	839540.78	3.91	24	1721.82	6	9.803E-08	4.063E-08	0.000E+00	0.000E+00
	MPS2	AREAPOLY	824410.24	839470.26	3.91	24	1011.29	6	6.557E-08	2.718E-08	0.000E+00	0.000E+00
	MPS3	AREAPOLY	824391.30	839419.14	3.91	24	5200.75	12	1.809E-08	7.498E-09	0.000E+00	0.000E+00
	MPS4	AREAPOLY	824392.29	839421.41	3.91	24	5200.77	8	7.236E-08	2.999E-08	0.000E+00	0.000E+00
Mega Wheel Warehouse	MWS1	AREAPOLY	824251.90	839630.42	3.91	24	2973.10	10	6.212E-07	2.539E-07	0.000E+00	0.000E+00
	MWS2	AREAPOLY	824410.24	839470.26	3.91	24	1011.29	6	4.155E-07	1.698E-07	0.000E+00	0.000E+00
	MWS3	AREAPOLY	824391.30	839419.14	3.91	24	2544.49	6	1.146E-07	4.685E-08	0.000E+00	0.000E+00
	MWS4	AREAPOLY	824392.29	839421.41	3.91	24	2544.40	8	4.585E-07	1.874E-07	0.000E+00	0.000E+00
Hop Kwan Hung To Parking Lot	HKHTS1	AREAPOLY	824167.85	839140.50	3.91	24	1886.72	8	3.283E-07	1.311E-07	0.000E+00	0.000E+00
	HKHTS2	AREAPOLY	824312.78	839033.45	3.91	24	4709.62	8	7.556E-08	3.016E-08	0.000E+00	0.000E+00
	HKHTS3	AREAPOLY	824312.67	839033.29	3.91	24	4709.53	12	1.763E-07	7.038E-08	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Location of vertices for AREAPOLY

	Coordinate	Source																		
		CT1	PLT1	ST1	LMCS1	LMCL1	MP1	MW1	HKHT1	CTS1	CTS2	CTS3	CTS4	CTS5	PLTS1	PLTS2	PLTS3	PLTS4	PLTS5	PLTS6
Vertice 1	X	826254.69	826939.40	825502.35	824893.00	825797.62	824222.20	824054.17	824157.70	826158.67	825696.34	825859.60	826151.28	826321.91	826958.32	826779.90	826811.90	826774.08	826731.27	826661.71
	Y	840208.89	839160.84	838653.29	841787.87	841881.34	839630.93	839702.44	839292.32	840237.22	840355.65	840408.08	840223.03	840267.02	839157.34	839336.18	839342.18	839342.35	839404.81	839479.54
Vertice 2	X	826156.39	827039.16	825622.33	824912.17	825856.47	824257.37	824225.21	824194.53	826151.28	825672.19	825848.71	826158.67	826264.16	826897.07	826779.98	826824.79	826731.51	826661.91	826674.32
	Y	840254.80	839081.32	838769.27	841788.98	841925.66	839631.15	839712.47	839300.69	840223.03	840341.20	840416.88	840237.22	840172.83	839207.34	839356.18	839349.85	839407.60	839468.87	839471.42
Vertice 3	X	826205.11	826984.85	825715.93	824919.51	825917.18	824269.63	824230.31	824210.76	826010.83	825663.98	825884.63	826261.88	826252.22	826823.48	826818.39	826851.66	826743.24	826674.12	826624.66
	Y	840359.12	839022.39	838672.83	841691.01	841851.32	839618.04	839676.58	839314.12	840296.21	840354.93	840461.31	840183.58	840180.14	839267.35	839356.02	839304.75	839415.25	839482.09	839394.28
Vertice 4	X	826303.41	826911.70	825590.69	824900.41	825854.77	824286.79	824240.46	824242.08	825849.65	825690.33	825940.88	826254.50	826311.07	826774.09	826818.30	826882.52	826785.80	826743.48	826612.05
	Y	840313.22	839074.29	838557.97	841689.92	841801.96	839588.66	839651.86	839298.47	840405.86	840370.53	840588.03	840169.39	840275.98	839342.33	839336.02	839273.26	839350.00	839418.04	839402.40
Vertice 5	X	-	-	-	-	-	824294.84	824257.37	824213.01	825858.65	825851.81	825953.68	-	826392.46	826785.79	-	826973.50	-	-	-
	Y	-	-	-	-	-	839573.72	839631.15	839243.46	840419.09	840420.12	840582.35	-	840352.54	839350.02	-	839197.11	-	-	-
Vertice 6	X	-	-	-	-	-	824303.11	824222.20	824172.03	826018.94	825856.50	825896.72	-	826423.14	826834.10	-	827018.34	-	-	-
	Y	-	-	-	-	-	839555.62	839630.93	839143.23	840310.02	840404.83	840454.12	-	840377.84	839276.60	-	839162.11	-	-	-
Vertice 7	X	-	-	-	-	-	824310.78	824207.62	824133.25	-	-	-	-	826526.74	826905.91	-	827009.11	-	-	-
	Y	-	-	-	-	-	839546.44	839589.43	839155.38	-	-	-	-	840440.40	839218.20	-	839150.29	-	-	-
Vertice 8	X	-	-	-	-	-	824265.57	824016.07	824129.70	-	-	-	-	826576.81	826967.17	-	826963.97	-	-	-
	Y	-	-	-	-	-	839547.66	839619.89	839217.81	-	-	-	-	840458.83	839168.18	-	839185.53	-	-	-
Vertice 9	X	-	-	-	-	-	824207.62	824003.21	824139.38	-	-	-	-	826581.64	-	-	826872.60	-	-	-
	Y	-	-	-	-	-	839589.43	839654.83	839248.38	-	-	-	-	840445.69	-	-	839261.99	-	-	-
Vertice 10	X	-	-	-	-	-	-	-	-	-	-	-	-	826532.21	-	-	826839.93	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	840427.49	-	-	839295.32	-	-	-
Vertice 11	X	-	-	-	-	-	-	-	-	-	-	-	-	826431.65	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	840366.71	-	-	-	-	-	-
Vertice 12	X	-	-	-	-	-	-	-	-	-	-	-	-	826401.89	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	840342.18	-	-	-	-	-	-
Vertice 13	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 14	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 15	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 16	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 17	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 18	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 19	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 20	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Location of vertices for AREAPOLY

	Source																			
	PLTS7	PLTS8	PLTS9	STS1	STS2	STS3	STS4	STS5	STS6	LMCSD1	LMCSD2	LMCSD3	LMCSD4	LMCSL1	LMCSL2	LMCSL3	LMCLS1	LMCLS2	LMCLS3	LMCLS4
Vertice 1	826613.49	826731.31	826648.80	825473.63	825462.69	825307.52	825305.40	825139.32	825361.86	824901.01	824939.75	824946.41	825396.34	824901.01	824939.75	824946.41	825764.76	825765.91	825645.91	825637.99
	839403.37	839404.78	839488.57	838641.29	838642.71	838515.75	838514.80	838515.34	838389.07	841800.04	841794.93	841832.82	841921.14	841800.04	841794.93	841832.82	842046.12	842055.70	841877.82	841828.94
Vertice 2	826623.22	826649.32	826691.09	825462.65	825473.58	825299.47	825208.05	825207.06	825297.42	824949.12	824937.42	825182.04	825409.06	824949.12	824937.42	824967.13	825776.73	825775.58	825661.55	825647.67
	839393.31	839479.54	839605.61	838652.92	838651.51	838529.53	838493.65	838507.93	838519.52	841803.66	841825.64	841867.83	841923.82	841803.66	841825.64	841835.98	842055.17	842045.58	841874.46	841821.85
Vertice 3	826587.81	826661.45	826704.26	825517.19	825237.90	825368.39	825204.65	825205.64	825309.98	824950.33	824957.36	825400.98	825430.72	824950.33	824957.36	824969.08	825878.58	825689.42	825650.65	825622.69
	839359.07	839492.84	839600.86	838704.43	838943.19	838569.57	838509.28	838495.01	838525.71	841787.71	841827.15	841928.75	841821.27	841787.71	841827.15	841823.12	841920.58	841963.25	841823.71	841787.72
Vertice 4	826578.08	826743.44	826661.97	825528.17	825227.01	825462.84	825302.00	825137.91	825373.96	824902.22	824959.70	825404.43	825418.00	824902.22	824959.70	824948.37	825866.62	825672.02	825635.01	825613.01
	839369.14	839418.08	839483.81	838692.79	838934.39	838653.10	838530.43	838502.42	838396.16	841784.08	841796.44	841916.21	841818.59	841784.08	841796.44	841819.97	841911.53	841928.79	841827.07	841794.81
Vertice 5	-	-	-	-	-	825473.44	-	-	825386.81	-	-	825185.80	-	-	-	-	-	825660.58	-	-
	-	-	-	-	-	838641.11	-	-	838377.95	-	-	841856.13	-	-	-	-	-	841874.69	-	-
Vertice 6	-	-	-	-	-	825378.23	-	-	825375.37	-	-	824948.37	-	-	-	-	-	825646.88	-	-
	-	-	-	-	-	838556.92	-	-	838369.87	-	-	841819.97	-	-	-	-	-	841877.59	-	-
Vertice 7	-	-	-	-	-	825377.11	-	-	-	-	-	-	-	-	-	-	-	825658.51	-	-
	-	-	-	-	-	838556.13	-	-	-	-	-	-	-	-	-	-	-	841932.58	-	-
Vertice 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	825678.09	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	841971.64	-	-
Vertice 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Location of vertices for AREAPOLY

	Source																
	LMCLS5	LMCLS6	LMCLS7	LMCLS8	LMCLS9	LMCLS10	MPS1	MPS2	MPS3	MPS4	MWS1	MWS2	MWS3	MWS4	HKHTS1	HKHTS2	HKHTS3
Vertice 1	825615.48	825658.21	825689.07	825707.82	825719.29	825723.44	824308.80	824410.24	824391.30	824392.29	824251.90	824410.24	824391.30	824392.29	824167.85	824312.78	824312.67
	841794.48	841886.19	841848.24	841817.88	841790.19	841733.37	839540.78	839470.26	839419.14	839421.41	839630.42	839470.26	839419.14	839421.41	839140.50	839033.45	839033.29
Vertice 2	825620.22	825704.22	825710.43	825738.96	825743.07	825743.44	824312.76	824424.41	824403.98	824411.95	824260.51	824424.41	824403.98	824411.95	824176.22	824323.46	824370.51
	841788.04	841865.70	841863.06	841825.24	841786.97	841719.97	839552.11	839459.15	839416.29	839449.71	839638.78	839459.15	839416.29	839449.71	839145.97	839026.05	839122.24
Vertice 3	825577.15	825695.28	825734.07	825746.75	825738.97	825733.42	824390.81	824402.58	824396.87	824444.06	824276.42	824402.58	824396.87	824444.06	824201.27	824246.60	824380.30
	841756.44	841845.60	841828.97	841792.26	841756.68	841705.02	839524.26	839431.30	839384.74	839473.46	839622.31	839431.30	839384.74	839473.46	839107.58	838915.24	839145.31
Vertice 4	825517.77	825649.26	825712.71	825715.61	825730.03	825713.43	824422.57	824406.17	824403.35	824747.38	824314.95	824406.17	824402.37	824559.17	824229.01	824177.62	824390.33
	841725.61	841866.09	841814.15	841784.90	841722.80	841718.41	839467.62	839420.57	839194.12	839601.77	839551.34	839420.57	839223.11	839522.19	839085.68	838805.71	839194.45
Vertice 5	825514.08	-	-	-	825706.84	-	824412.08	824389.10	824392.52	824752.44	824390.81	824389.10	824389.38	824564.24	824320.57	824139.43	824389.38
	841732.71	-	-	-	841728.98	-	839461.79	839414.86	839140.83	839589.80	839524.26	839414.86	839222.67	839510.22	839034.11	838717.91	839222.67
Vertice 6	825573.19	-	-	-	825715.29	-	824382.50	824383.64	824381.72	824450.55	824422.57	824383.64	824384.01	824450.55	824315.66	824127.51	824384.35
	841763.39	-	-	-	841760.65	-	839515.04	839434.56	839115.63	839462.15	839467.62	839434.56	839386.79	839462.15	839025.39	838723.09	839370.37
Vertice 7	-	-	-	-	-	-	-	-	824328.58	824421.35	824412.08	-	-	824421.35	824223.11	824166.22	824397.35
	-	-	-	-	-	-	-	-	839033.92	839440.60	839461.79	-	-	839440.60	839077.59	838812.01	839370.81
Vertice 8	-	-	-	-	-	-	-	-	824317.68	824402.98	824382.50	-	-	824402.98	824193.84	824235.83	824402.37
	-	-	-	-	-	-	-	-	839041.00	839414.02	839515.04	-	-	839414.02	839100.79	838922.53	839223.11
Vertice 9	-	-	-	-	-	-	-	-	824370.51	-	824306.55	-	-	-	-	-	824403.35
	-	-	-	-	-	-	-	-	839122.24	-	839542.10	-	-	-	-	-	839194.12
Vertice 10	-	-	-	-	-	-	-	-	824380.30	-	824266.71	-	-	-	-	-	824392.91
	-	-	-	-	-	-	-	-	839145.31	-	839615.17	-	-	-	-	-	839142.07
Vertice 11	-	-	-	-	-	-	-	-	824390.33	-	-	-	-	-	-	-	824381.72
	-	-	-	-	-	-	-	-	839194.45	-	-	-	-	-	-	-	839115.63
Vertice 12	-	-	-	-	-	-	-	-	824384.01	-	-	-	-	-	-	-	824323.57
	-	-	-	-	-	-	-	-	839386.79	-	-	-	-	-	-	-	839026.21
Vertice 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hourly Profile for Emission inside Parking Area

Lok Ma Chau Station PTI

Hour	Emission Within PTI Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.253E-03	9.684E-05	2.599E-05	2.411E-05
0700 - 0800	3.446E-03	2.676E-04	7.464E-05	6.923E-05
0800 - 0900	3.602E-03	2.791E-04	7.630E-05	7.078E-05
0900 - 1000	1.801E-03	1.395E-04	3.815E-05	3.539E-05
1000 - 1100	1.253E-03	9.684E-05	2.599E-05	2.411E-05
1100 - 1200	1.253E-03	9.684E-05	2.599E-05	2.411E-05
1200 - 1300	1.253E-03	9.684E-05	2.599E-05	2.411E-05
1300 - 1400	1.253E-03	9.684E-05	2.599E-05	2.411E-05
1400 - 1500	1.253E-03	9.684E-05	2.599E-05	2.411E-05
1500 - 1600	1.801E-03	1.395E-04	3.815E-05	3.539E-05
1600 - 1700	1.801E-03	1.395E-04	3.815E-05	3.539E-05
1700 - 1800	2.349E-03	1.822E-04	5.032E-05	4.667E-05
1800 - 1900	3.602E-03	2.791E-04	7.630E-05	7.078E-05
1900 - 2000	2.349E-03	1.822E-04	5.032E-05	4.667E-05
2000 - 2100	1.253E-03	9.684E-05	2.599E-05	2.411E-05
2100 - 2200	1.253E-03	9.684E-05	2.599E-05	2.411E-05
2200 - 2300	7.044E-04	5.414E-05	1.382E-05	1.283E-05
2300 - 2400	5.483E-04	4.270E-05	1.216E-05	1.128E-05
	3.602E-03	2.791E-04	7.630E-05	7.078E-05

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.348	0.347	0.341	0.341
0.957	0.959	0.978	0.978
1.000	1.000	1.000	1.000
0.500	0.500	0.500	0.500
0.348	0.347	0.341	0.341
0.348	0.347	0.341	0.341
0.348	0.347	0.341	0.341
0.348	0.347	0.341	0.341
0.348	0.347	0.341	0.341
0.500	0.500	0.500	0.500
0.500	0.500	0.500	0.500
0.652	0.653	0.659	0.659
1.000	1.000	1.000	1.000
0.652	0.653	0.659	0.659
0.348	0.347	0.341	0.341
0.348	0.347	0.341	0.341
0.196	0.194	0.181	0.181
0.152	0.153	0.159	0.159

Lok Ma Chau Loop PTI

Hour	Emission Within PTI Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	1.370E-03	1.094E-04	4.025E-05	3.717E-05
0100 - 0200	6.852E-04	5.468E-05	2.012E-05	1.858E-05
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	1.370E-03	1.094E-04	4.025E-05	3.717E-05
0600 - 0700	6.852E-03	5.468E-04	2.012E-04	1.858E-04
0700 - 0800	1.987E-02	1.586E-03	5.836E-04	5.389E-04
0800 - 0900	2.056E-02	1.640E-03	6.037E-04	5.575E-04
0900 - 1000	1.096E-02	8.749E-04	3.220E-04	2.973E-04
1000 - 1100	8.222E-03	6.561E-04	2.415E-04	2.230E-04
1100 - 1200	6.852E-03	5.468E-04	2.012E-04	1.858E-04
1200 - 1300	7.537E-03	6.015E-04	2.213E-04	2.044E-04
1300 - 1400	6.852E-03	5.468E-04	2.012E-04	1.858E-04
1400 - 1500	6.852E-03	5.468E-04	2.012E-04	1.858E-04
1500 - 1600	1.028E-02	8.202E-04	3.018E-04	2.788E-04
1600 - 1700	1.165E-02	9.295E-04	3.421E-04	3.159E-04
1700 - 1800	1.439E-02	1.148E-03	4.226E-04	3.903E-04
1800 - 1900	2.124E-02	1.695E-03	6.238E-04	5.761E-04
1900 - 2000	1.302E-02	1.039E-03	3.823E-04	3.531E-04
2000 - 2100	8.222E-03	6.561E-04	2.415E-04	2.230E-04
2100 - 2200	6.852E-03	5.468E-04	2.012E-04	1.858E-04
2200 - 2300	4.796E-03	3.828E-04	1.409E-04	1.301E-04
2300 - 2400	3.426E-03	2.734E-04	1.006E-04	9.292E-05
	2.124E-02	1.695E-03	6.238E-04	5.761E-04

Hourly Profile			
NO	NO_2	RSP	FSP
0.065	0.065	0.065	0.065
0.032	0.032	0.032	0.032
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.065	0.065	0.065	0.065
0.323	0.323	0.323	0.323
0.935	0.935	0.935	0.935
0.968	0.968	0.968	0.968
0.516	0.516	0.516	0.516
0.387	0.387	0.387	0.387
0.323	0.323	0.323	0.323
0.355	0.355	0.355	0.355
0.323	0.323	0.323	0.323
0.323	0.323	0.323	0.323
0.484	0.484	0.484	0.484
0.548	0.548	0.548	0.548
0.677	0.677	0.677	0.677
1.000	1.000	1.000	1.000
0.613	0.613	0.613	0.613
0.387	0.387	0.387	0.387
0.323	0.323	0.323	0.323
0.226	0.226	0.226	0.226
0.161	0.161	0.161	0.161

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hourly Profile for Emission inside Parking Area

Mai Po Warehouse

Hour	Emission Within Carpark – Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	4.393E-04	1.006E-04	1.527E-05	1.461E-05
0900 - 1000	7.651E-04	2.944E-04	1.778E-05	1.695E-05
1000 - 1100	2.456E-04	8.655E-05	7.738E-06	7.149E-06
1100 - 1200	6.998E-04	2.016E-04	2.163E-05	2.053E-05
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	4.082E-04	1.310E-04	9.652E-06	8.975E-06
1500 - 1600	1.034E-03	4.669E-04	2.323E-05	2.156E-05
1600 - 1700	5.240E-04	1.468E-04	9.661E-06	8.930E-06
1700 - 1800	2.017E-04	8.710E-05	5.918E-06	5.496E-06
1800 - 1900	2.600E-04	1.096E-04	1.100E-05	1.018E-05
1900 - 2000	2.037E-05	1.104E-06	9.641E-07	8.979E-07
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	2.502E-04	8.797E-05	7.738E-06	7.149E-06
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	1.034E-03	4.669E-04	2.323E-05	2.156E-05

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.425	0.215	0.657	0.678
0.740	0.631	0.765	0.786
0.237	0.185	0.333	0.332
0.677	0.432	0.931	0.952
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.395	0.281	0.415	0.416
1.000	1.000	1.000	1.000
0.507	0.314	0.416	0.414
0.195	0.187	0.255	0.255
0.251	0.235	0.473	0.472
0.020	0.002	0.041	0.042
0.000	0.000	0.000	0.000
0.242	0.188	0.333	0.332
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000

Mega Wheel Warehouse

Hour	Emission Within Carpark – Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.672E-03	6.258E-04	6.734E-05	6.410E-05
0700 - 0800	2.350E-03	9.569E-04	5.503E-05	5.083E-05
0800 - 0900	6.228E-03	2.373E-03	1.525E-04	1.426E-04
0900 - 1000	3.831E-03	1.539E-03	7.951E-05	7.350E-05
1000 - 1100	3.791E-03	1.243E-03	1.058E-04	9.961E-05
1100 - 1200	1.563E-03	4.814E-04	6.415E-05	6.128E-05
1200 - 1300	3.521E-03	1.038E-03	1.555E-04	1.483E-04
1300 - 1400	4.442E-03	1.243E-03	1.798E-04	1.729E-04
1400 - 1500	6.454E-03	2.259E-03	1.908E-04	1.800E-04
1500 - 1600	6.510E-03	2.358E-03	1.924E-04	1.776E-04
1600 - 1700	4.059E-03	1.369E-03	1.658E-04	1.569E-04
1700 - 1800	4.653E-03	1.335E-03	1.574E-04	1.492E-04
1800 - 1900	5.395E-03	1.511E-03	2.331E-04	2.220E-04
1900 - 2000	5.270E-04	3.261E-05	3.453E-05	3.383E-05
2000 - 2100	2.427E-03	7.251E-04	5.856E-05	5.416E-05
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	6.510E-03	2.373E-03	2.331E-04	2.220E-04

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.410	0.264	0.289	0.289
0.361	0.403	0.236	0.229
0.957	1.000	0.654	0.642
0.589	0.648	0.341	0.331
0.582	0.524	0.454	0.449
0.240	0.203	0.275	0.276
0.541	0.437	0.667	0.668
0.682	0.524	0.771	0.779
0.991	0.952	0.819	0.811
1.000	0.994	0.826	0.800
0.624	0.577	0.711	0.707
0.715	0.563	0.675	0.672
0.829	0.637	1.000	1.000
0.081	0.014	0.148	0.152
0.373	0.306	0.251	0.244
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hourly Profile for Emission inside Parking Area

Hop Kwan Hung To Parking Lot

Hour	Emission Within Carpark Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.063E-03	2.497E-04	2.619E-05	2.492E-05
0700 - 0800	9.314E-04	3.805E-04	2.086E-05	1.928E-05
0800 - 0900	2.282E-03	8.565E-04	5.488E-05	5.140E-05
0900 - 1000	1.682E-03	6.610E-04	3.368E-05	3.117E-05
1000 - 1100	1.575E-03	5.301E-04	4.284E-05	4.032E-05
1100 - 1200	6.816E-04	2.111E-04	2.617E-05	2.496E-05
1200 - 1300	1.411E-03	4.038E-04	6.346E-05	6.075E-05
1300 - 1400	1.696E-03	4.876E-04	6.455E-05	6.187E-05
1400 - 1500	2.659E-03	9.443E-04	7.506E-05	7.082E-05
1500 - 1600	2.788E-03	1.021E-03	8.136E-05	7.516E-05
1600 - 1700	1.584E-03	5.310E-04	6.313E-05	5.978E-05
1700 - 1800	1.824E-03	5.248E-04	5.959E-05	5.649E-05
1800 - 1900	2.398E-03	6.511E-04	1.016E-04	9.680E-05
1900 - 2000	2.218E-04	1.284E-05	1.366E-05	1.335E-05
2000 - 2100	9.700E-04	2.901E-04	2.367E-05	2.191E-05
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	2.788E-03	1.021E-03	1.016E-04	9.680E-05

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.381	0.245	0.258	0.257
0.334	0.373	0.205	0.199
0.818	0.839	0.540	0.531
0.603	0.648	0.331	0.322
0.565	0.519	0.422	0.417
0.244	0.207	0.257	0.258
0.506	0.396	0.624	0.628
0.608	0.478	0.635	0.639
0.954	0.925	0.739	0.732
1.000	1.000	0.801	0.776
0.568	0.520	0.621	0.618
0.654	0.514	0.586	0.584
0.860	0.638	1.000	1.000
0.080	0.013	0.134	0.138
0.348	0.284	0.233	0.226
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hourly Profile for Start Emission outside Parking Area

Lok Ma Chau Station PTI (FBDD and Minibus Diesel)

Hour	Emission Outside PTI			
	Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	7.246E-04	8.107E-05	0.000E+00	0.000E+00
0700 - 0800	2.140E-03	2.300E-04	0.000E+00	0.000E+00
0800 - 0900	2.157E-03	2.366E-04	0.000E+00	0.000E+00
0900 - 1000	1.078E-03	1.183E-04	0.000E+00	0.000E+00
1000 - 1100	7.246E-04	8.107E-05	0.000E+00	0.000E+00
1100 - 1200	7.246E-04	8.107E-05	0.000E+00	0.000E+00
1200 - 1300	7.246E-04	8.107E-05	0.000E+00	0.000E+00
1300 - 1400	7.246E-04	8.107E-05	0.000E+00	0.000E+00
1400 - 1500	7.246E-04	8.107E-05	0.000E+00	0.000E+00
1500 - 1600	1.078E-03	1.183E-04	0.000E+00	0.000E+00
1600 - 1700	1.078E-03	1.183E-04	0.000E+00	0.000E+00
1700 - 1800	1.432E-03	1.556E-04	0.000E+00	0.000E+00
1800 - 1900	2.157E-03	2.366E-04	0.000E+00	0.000E+00
1900 - 2000	1.432E-03	1.556E-04	0.000E+00	0.000E+00
2000 - 2100	7.246E-04	8.107E-05	0.000E+00	0.000E+00
2100 - 2200	7.246E-04	8.107E-05	0.000E+00	0.000E+00
2200 - 2300	3.708E-04	4.383E-05	0.000E+00	0.000E+00
2300 - 2400	3.538E-04	3.724E-05	0.000E+00	0.000E+00
	2.157E-03	2.366E-04	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.336	0.343		
0.992	0.972		
1.000	1.000		
0.500	0.500		
0.336	0.343		
0.336	0.343		
0.336	0.343		
0.336	0.343		
0.336	0.343		
0.500	0.500		
0.500	0.500		
0.664	0.657		
1.000	1.000		
0.664	0.657		
0.336	0.343		
0.336	0.343		
0.172	0.185		
0.164	0.157		

Lok Ma Chau Station PTI (Minibus LPG)

Hour	Emission Outside PTI			
	Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	4.871E-04	2.454E-06	0.000E+00	0.000E+00
0700 - 0800	1.136E-03	5.726E-06	0.000E+00	0.000E+00
0800 - 0900	1.299E-03	6.544E-06	0.000E+00	0.000E+00
0900 - 1000	6.494E-04	3.272E-06	0.000E+00	0.000E+00
1000 - 1100	4.871E-04	2.454E-06	0.000E+00	0.000E+00
1100 - 1200	4.871E-04	2.454E-06	0.000E+00	0.000E+00
1200 - 1300	4.871E-04	2.454E-06	0.000E+00	0.000E+00
1300 - 1400	4.871E-04	2.454E-06	0.000E+00	0.000E+00
1400 - 1500	4.871E-04	2.454E-06	0.000E+00	0.000E+00
1500 - 1600	6.494E-04	3.272E-06	0.000E+00	0.000E+00
1600 - 1700	6.494E-04	3.272E-06	0.000E+00	0.000E+00
1700 - 1800	8.118E-04	4.090E-06	0.000E+00	0.000E+00
1800 - 1900	1.299E-03	6.544E-06	0.000E+00	0.000E+00
1900 - 2000	8.118E-04	4.090E-06	0.000E+00	0.000E+00
2000 - 2100	4.871E-04	2.454E-06	0.000E+00	0.000E+00
2100 - 2200	4.871E-04	2.454E-06	0.000E+00	0.000E+00
2200 - 2300	3.247E-04	1.636E-06	0.000E+00	0.000E+00
2300 - 2400	1.624E-04	8.180E-07	0.000E+00	0.000E+00
	1.299E-03	6.544E-06	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0	0.000		
0	0.000		
0	0.000		
0	0.000		
0	0.000		
0	0.000		
0.375	0.375		
0.875	0.875		
1	1.000		
0.5	0.500		
0.375	0.375		
0.375	0.375		
0.375	0.375		
0.375	0.375		
0.375	0.375		
0.5	0.500		
0.5	0.500		
0.625	0.625		
1	1.000		
0.625	0.625		
0.375	0.375		
0.375	0.375		
0.25	0.250		
0.125	0.125		

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hourly Profile for Start Emission outside Parking Area

Lok Ma Chau Loop PTI

Hour	Emission Outside PTI – Total Emission Rate (g/s) NO	NO_2	RSP	FSP
0000 - 0100	6.219E-04	5.657E-05	0.000E+00	0.000E+00
0100 - 0200	3.109E-04	2.829E-05	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	6.219E-04	5.657E-05	0.000E+00	0.000E+00
0600 - 0700	3.109E-03	2.829E-04	0.000E+00	0.000E+00
0700 - 0800	9.017E-03	8.203E-04	0.000E+00	0.000E+00
0800 - 0900	9.328E-03	8.486E-04	0.000E+00	0.000E+00
0900 - 1000	4.975E-03	4.526E-04	0.000E+00	0.000E+00
1000 - 1100	3.731E-03	3.394E-04	0.000E+00	0.000E+00
1100 - 1200	3.109E-03	2.829E-04	0.000E+00	0.000E+00
1200 - 1300	3.420E-03	3.112E-04	0.000E+00	0.000E+00
1300 - 1400	3.109E-03	2.829E-04	0.000E+00	0.000E+00
1400 - 1500	3.109E-03	2.829E-04	0.000E+00	0.000E+00
1500 - 1600	4.664E-03	4.243E-04	0.000E+00	0.000E+00
1600 - 1700	5.286E-03	4.809E-04	0.000E+00	0.000E+00
1700 - 1800	6.530E-03	5.940E-04	0.000E+00	0.000E+00
1800 - 1900	9.639E-03	8.769E-04	0.000E+00	0.000E+00
1900 - 2000	5.908E-03	5.374E-04	0.000E+00	0.000E+00
2000 - 2100	3.731E-03	3.394E-04	0.000E+00	0.000E+00
2100 - 2200	3.109E-03	2.829E-04	0.000E+00	0.000E+00
2200 - 2300	2.177E-03	1.980E-04	0.000E+00	0.000E+00
2300 - 2400	1.555E-03	1.414E-04	0.000E+00	0.000E+00
	9.639E-03	8.769E-04	0.000E+00	0.000E+00

Hourly Profile NO	NO_2	RSP	FSP
0.065	0.065		
0.032	0.032		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.065	0.065		
0.323	0.323		
0.935	0.935		
0.968	0.968		
0.516	0.516		
0.387	0.387		
0.323	0.323		
0.355	0.355		
0.323	0.323		
0.323	0.323		
0.484	0.484		
0.548	0.548		
0.677	0.677		
1.000	1.000		
0.613	0.613		
0.387	0.387		
0.323	0.323		
0.226	0.226		
0.161	0.161		

Mai Po Warehouse

Hour	Emission Outside Carpark – Total Emission Rate (g/s) NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.314E-04	4.268E-05	0.000E+00	0.000E+00
0900 - 1000	7.055E-04	2.924E-04	0.000E+00	0.000E+00
1000 - 1100	5.074E-05	1.508E-05	0.000E+00	0.000E+00
1100 - 1200	2.041E-04	6.489E-05	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.007E-04	4.751E-05	0.000E+00	0.000E+00
1500 - 1600	5.406E-04	2.594E-04	0.000E+00	0.000E+00
1600 - 1700	1.541E-04	4.467E-05	0.000E+00	0.000E+00
1700 - 1800	4.814E-05	2.187E-05	0.000E+00	0.000E+00
1800 - 1900	5.591E-05	2.705E-05	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	7.822E-05	2.358E-05	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	7.055E-04	2.924E-04	0.000E+00	0.000E+00

Hourly Profile NO	NO_2	RSP	FSP
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.186	0.146		
1.000	1.000		
0.072	0.052		
0.289	0.222		
0.000	0.000		
0.000	0.000		
0.143	0.162		
0.766	0.887		
0.218	0.153		
0.068	0.075		
0.079	0.092		
0.000	0.000		
0.000	0.000		
0.111	0.081		
0.000	0.000		
0.000	0.000		

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2031

Hourly Profile for Start Emission outside Parking Area

Mega Wheel Warehouse

Hour	Emission Outside Carpark – Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.615E-03	8.417E-04	0.000E+00	0.000E+00
0700 - 0800	1.393E-03	6.218E-04	0.000E+00	0.000E+00
0800 - 0900	3.725E-03	1.523E-03	0.000E+00	0.000E+00
0900 - 1000	1.868E-03	8.952E-04	0.000E+00	0.000E+00
1000 - 1100	1.834E-03	6.040E-04	0.000E+00	0.000E+00
1100 - 1200	2.478E-04	8.023E-05	0.000E+00	0.000E+00
1200 - 1300	3.218E-04	9.758E-05	0.000E+00	0.000E+00
1300 - 1400	1.797E-03	6.047E-04	0.000E+00	0.000E+00
1400 - 1500	2.250E-03	8.719E-04	0.000E+00	0.000E+00
1500 - 1600	9.761E-04	3.659E-04	0.000E+00	0.000E+00
1600 - 1700	4.767E-04	1.662E-04	0.000E+00	0.000E+00
1700 - 1800	1.235E-03	3.847E-04	0.000E+00	0.000E+00
1800 - 1900	9.801E-04	3.459E-04	0.000E+00	0.000E+00
1900 - 2000	2.478E-04	8.023E-05	0.000E+00	0.000E+00
2000 - 2100	1.315E-03	4.446E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	3.725E-03	1.523E-03	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.702	0.553		
0.374	0.408		
1.000	1.000		
0.502	0.588		
0.492	0.397		
0.067	0.053		
0.086	0.064		
0.482	0.397		
0.604	0.573		
0.262	0.240		
0.128	0.109		
0.331	0.253		
0.263	0.227		
0.067	0.053		
0.353	0.292		
0.000	0.000		
0.000	0.000		
0.000	0.000		

Hop Kwan Hung To Parking Lot

Hour	Emission Outside Carpark – Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.438E-03	4.629E-04	0.000E+00	0.000E+00
0700 - 0800	7.660E-04	3.420E-04	0.000E+00	0.000E+00
0800 - 0900	1.806E-03	7.208E-04	0.000E+00	0.000E+00
0900 - 1000	1.043E-03	4.998E-04	0.000E+00	0.000E+00
1000 - 1100	1.032E-03	3.436E-04	0.000E+00	0.000E+00
1100 - 1200	1.363E-04	4.413E-05	0.000E+00	0.000E+00
1200 - 1300	1.770E-04	5.367E-05	0.000E+00	0.000E+00
1300 - 1400	9.203E-04	3.105E-04	0.000E+00	0.000E+00
1400 - 1500	1.261E-03	4.910E-04	0.000E+00	0.000E+00
1500 - 1600	5.404E-04	2.030E-04	0.000E+00	0.000E+00
1600 - 1700	2.622E-04	9.142E-05	0.000E+00	0.000E+00
1700 - 1800	6.791E-04	2.116E-04	0.000E+00	0.000E+00
1800 - 1900	6.364E-04	2.218E-04	0.000E+00	0.000E+00
1900 - 2000	1.363E-04	4.413E-05	0.000E+00	0.000E+00
2000 - 2100	7.230E-04	2.446E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	1.806E-03	7.208E-04	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.797	0.642		
0.424	0.474		
1.000	1.000		
0.578	0.693		
0.572	0.477		
0.075	0.061		
0.098	0.074		
0.510	0.431		
0.698	0.681		
0.299	0.282		
0.145	0.127		
0.376	0.294		
0.353	0.308		
0.075	0.061		
0.400	0.339		
0.000	0.000		
0.000	0.000		
0.000	0.000		

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Calculation of Iding Emission Factor

PC (Diesel)

NO/NO_2 Ratio = 6.83 From EMFAC [1]

	Population [20]	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/hr) [3]	PM (g/hr) [3]	NOx (g/hr) [5]	PM (g/hr) [6]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	72.20%	1.61E+00	5.00E-02	1.61E+00	5.00E-02	-	1.3	4.609E-02	4.020E-02	5.885E-03	9.153E-04	4.609E-02	4.020E-02	5.885E-03	9.153E-04
Euro V	27.58%	3.45E+00	2.00E-02	3.45E+00	2.00E-02										
Euro IV	0.16%	5.96E+00	1.60E-01	5.96E+00	1.60E-01										
Euro I	0.03%	4.88E+00	5.80E-01	4.88E+00	5.80E-01										
Pre-Euro	0.03%	6.57E+00	6.30E-01	6.57E+00	6.30E-01										

PC (Petrol)

NO/NO_2 Ratio = 19.13 From EMFAC [1]

	Population [20]	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/hr) [3]	PM (g/hr) [3]	NOx (g/hr) [7]	PM (g/hr) [8]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	93.15%	6.00E-02	0.00E+00	6.00E-02	0.00E+00	-	1.3	1.374E-03	1.306E-03	6.826E-05	1.223E-05	1.374E-03	1.306E-03	6.826E-05	1.223E-05
Euro V	5.63%	8.00E-02	1.00E-02	8.00E-02	1.00E-02										
Euro IV	1.11%	2.30E-01	0.00E+00	2.30E-01	0.00E+00										
Euro III	0.10%	3.00E-01	0.00E+00	3.00E-01	0.00E+00										
Euro II	0.02%	9.60E-01	1.00E-02	9.60E-01	1.00E-02										
Euro I	0.00%	7.60E-01	1.00E-02	7.60E-01	1.00E-02										
Pre-Euro	0.00%	1.18E+00	1.00E-02	1.18E+00	1.00E-02										

Taxi (Petrol)

NO/NO_2 Ratio [1] = 19.27 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/hr) [3]	PM (g/hr) [3]	NOx (g/hr) [9]	PM (g/hr) [9]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro V	100.00%	8.00E-02	1.00E-02	8.00E-02	1.00E-02	-	1.3	1.733E-03	1.648E-03	8.550E-05	2.167E-04	1.733E-03	1.648E-03	8.550E-05	2.167E-04

Taxi (LPG)

NO/NO_2 Ratio = 35.66 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2]	PM (g/hr) [3]	NOx (g/hr) [10]	PM (g/hr) [10]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	95.81%	2.80E-03	0.00E+00	1.01E+01	0.00E+00	-	1.3	1.680E-01	1.635E-01	4.584E-03	0.000E+00	2.184E-01	2.125E-01	5.959E-03	0.000E+00
Euro V	4.15%	2.80E-03	0.00E+00	1.01E+01	0.00E+00										
Euro IV	0.03%	3.50E-03	0.00E+00	1.26E+01	0.00E+00										
Euro II/III	0.01%	5.70E-03	0.00E+00	2.05E+01	0.00E+00										

LGV3 (Diesel)

NO/NO_2 Ratio = 16.92 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/hr) [3]	PM (g/hr) [3]	NOx (g/hr) [11]	PM (g/hr) [12]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	98.22%	1.28E+00	2.00E-02	1.28E+00	2.00E-02	-	1.3	2.863E-02	2.703E-02	1.598E-03	4.333E-04	2.863E-02	2.703E-02	1.598E-03	4.333E-04
Euro V	1.78%	3.60E+00	2.00E-02	3.60E+00	2.00E-02										

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Calculation of Iding Emission Factor

LGV3 (Petrol)

NO/NO_2 Ratio = 19.00 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/hr) [3]	PM (g/hr) [3]	NOx (g/hr) [13]	PM (g/hr) [14]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	88.45%	7.00E-02	0.00E+00	7.00E-02	0.00E+00	-	1.3	1.958E-03	1.860E-03	9.791E-05	4.056E-06	1.958E-03	1.860E-03	9.791E-05	4.056E-06
Euro V	6.98%	6.00E-02	0.00E+00	6.00E-02	0.00E+00										
Euro IV	1.35%	1.70E-01	0.00E+00	1.70E-01	0.00E+00										
Euro III	1.34%	3.40E-01	0.00E+00	3.40E-01	0.00E+00										
Euro II	0.48%	6.00E-01	1.00E-02	6.00E-01	1.00E-02										
Euro I	0.52%	1.69E+00	1.00E-02	1.69E+00	1.00E-02										
Pre-Euro	0.87%	6.60E-01	1.00E-02	6.60E-01	1.00E-02										

LGV6 (Diesel)

NO/NO_2 Ratio = 2.57 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor [17]	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [15]	PM (g/hr) [16]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	98.95%	1.00E-03	1.00E-02	1.75E+00	1.00E-02	0.9	1.3	6.113E-02	4.402E-02	1.712E-02	2.134E-04	3.617E-02	2.604E-02	1.013E-02	2.134E-04
Euro V	1.05%	2.80E-03	1.00E-01	1.17E+01	1.00E-01										
Euro IV	0.00%	2.80E-03	2.00E-01	7.51E+00	2.00E-01										
Euro III	0.00%	2.80E-03	1.29E+00	4.21E+01	1.29E+00										
Euro II	0.00%	2.80E-03	1.43E+00	4.06E+01	1.43E+00										
Euro I	0.00%	2.80E-03	5.53E+00	3.26E+01	5.53E+00										
Pre-Euro	0.00%	2.80E-03	6.62E+00	4.06E+01	6.62E+00										

HGV7 (Diesel)

NO/NO_2 Ratio = 2.05 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor [17]	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [15]	PM (g/hr) [16]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	98.15%	5.90E-03	1.00E-02	1.75E+00	1.00E-02	0.9	1.3	3.540E-01	2.381E-01	1.159E-01	2.275E-04	3.772E-02	2.536E-02	1.235E-02	2.275E-04
Euro V	1.85%	5.90E-03	1.00E-01	1.17E+01	1.00E-01										
Euro IV	0.00%	5.90E-03	2.00E-01	7.51E+00	2.00E-01										

HGV8 (Diesel)

NO/NO_2 Ratio = 2.10 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor [17]	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [15]	PM (g/hr) [16]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	98.58%	3.70E-03	1.00E-02	1.75E+00	1.00E-02	1.0	1.3	2.385E-01	1.615E-01	7.700E-02	2.444E-04	4.099E-02	2.776E-02	1.323E-02	2.444E-04
Euro V	1.42%	2.30E-02	1.00E-01	1.17E+01	1.00E-01										
Euro IV	0.00%	1.44E-02	2.00E-01	7.51E+00	2.00E-01										
Euro III	0.00%	1.44E-02	1.29E+00	4.21E+01	1.29E+00										
Euro II	0.00%	1.44E-02	1.43E+00	4.06E+01	1.43E+00										
Euro I	0.00%	1.44E-02	5.53E+00	3.26E+01	5.53E+00										
Pre-Euro	0.00%	1.44E-02	6.62E+00	4.06E+01	6.62E+00										

PLB (Diesel)

NO/NO_2 Ratio = 2.57 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [11]	PM (g/hr) [12]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	97.95%	1.00E-03	2.00E-02	1.28E+00	2.00E-02	-	1.3	6.000E-02	4.320E-02	1.680E-02	4.333E-04	2.876E-02	2.071E-02	8.051E-03	4.333E-04
Euro V	2.05%	1.00E-03	2.00E-02	3.60E+00	2.00E-02										
Euro IV	0.00%	1.00E-03	1.60E-01	3.62E+00	1.60E-01										
Euro III	0.00%	1.00E-03	1.00E-01	4.12E+00	1.00E-01										
Euro II	0.00%	1.00E-03	5.40E-01	5.53E+00	5.40E-01										
Euro I	0.00%	1.00E-03	6.30E-01	5.88E+00	6.30E-01										
Pre-Euro	0.00%	1.00E-03	1.59E+00	6.52E+00	1.59E+00										

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Calculation of Iding Emission Factor

PLB (LPG)

NO/NO_2 Ratio = 198.45 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2]	PM (g/hr) [3]	NOx (g/hr) [10]	PM (g/hr) [10]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro V	97.76%	3.90E-03	2.00E-02	1.40E+01	2.00E-02	-	1.3	2.377E-01	2.365E-01	1.192E-03	4.861E-04	3.090E-01	3.075E-01	1.549E-03	4.861E-04
Euro IV	1.08%	3.90E-03	1.60E-01	1.40E+01	1.60E-01										
Euro III	1.16%	9.20E-03	1.00E-01	3.31E+01	1.00E-01										

FBDD (Diesel)

NO/NO_2 Ratio = 5.24 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor [17]	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [15]	PM (g/hr) [16]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	79.00%	2.25E-02	1.00E-02	1.75E+00	1.00E-02	1.2	1.3	3.001E+00	2.519E+00	4.812E-01	7.514E-04	9.988E-02	8.387E-02	1.602E-02	7.514E-04
Euro V	21.00%	1.54E-01	1.00E-01	1.17E+01	1.00E-01										
Euro IV	0.00%	1.54E-01	2.00E-01	7.51E+00	2.00E-01										
Euro III	0.00%	7.37E-02	1.29E+00	4.21E+01	1.29E+00										
Euro II	0.00%	7.37E-02	1.43E+00	4.06E+01	1.43E+00										
Euro I	0.00%	7.37E-02	5.53E+00	3.26E+01	5.53E+00										
Pre-Euro	0.00%	7.37E-02	6.62E+00	4.06E+01	6.62E+00										

HGV9 (Diesel)

NO/NO_2 Ratio = 2.14 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor [17]	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [15]	PM (g/hr) [16]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	97.93%	3.70E-03	1.00E-02	1.75E+00	1.00E-02	1.2	1.3	2.460E-01	1.676E-01	7.839E-02	3.084E-04	5.086E-02	3.465E-02	1.621E-02	3.084E-04
Euro V	2.07%	2.30E-02	1.00E-01	1.17E+01	1.00E-01										
Euro IV	0.00%	1.44E-02	2.00E-01	7.51E+00	2.00E-01										
Euro III	0.00%	1.44E-02	1.29E+00	4.21E+01	1.29E+00										
Euro II	0.00%	1.44E-02	1.43E+00	4.06E+01	1.43E+00										
Euro I	0.00%	1.44E-02	5.53E+00	3.26E+01	5.53E+00										
Pre-Euro	0.00%	1.44E-02	6.62E+00	4.06E+01	6.62E+00										

Remarks

[1] NO/NO2 ratio, at the respective running speed, was calculated based on emisison factors extracted from EMFAC-HK.
[2] NOx cold idling emission factors was referenced to Calculation of Start Emissions in Air Quality Impact Assessment published by EPD.
[3] Due to the lack of information, cold idling emission factor was referenced to the corresponding hot idling emission factor.
[4] For Euro groups with no emission factor provided in the reference, idling emission factor was referenced to the next Euro group with available emission factor.
[5] Reference made to Table 36 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[6] Reference made to Table 37 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[7] Reference made to Table 33 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[8] Reference made to Table 34 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[9] Due to the lack of information and similarity in taxi and PC , cold and hot idling emission factors were referenced to corresponding hot idling emission factor of PC (petrol).
[10] Due to the lack of information, hot idling emission factor was referenced to the corresponding cold idling emission factor.
[11] Reference made to Table 42 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[12] Reference made to Table 43 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[13] Reference made to Table 39 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[14] Reference made to Table 40 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[15] Reference made to Table 45 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[16] Reference made to Table 46 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[17] Reference made to Table 27 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association by assuming LGV6 and HGV7 as 15 ton, HGV8 as 23 ton, FBDD and HGV9 as 32 ton.
[18] Reference made to the approved Liantang / Heung Yuen Wai Boundary Control Point and Associated Works EIA Report.
[19] All TSP (PM) emissions were assumed for RSP and FSP as a conservative approach.
[20] The population of PC is adjusted with E-PC.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

PTI in Pang Loon Tei (FBDD_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	3.786E-01	6.814E-01	9.086E-01	1.287E+00	1.590E+00	2.120E+00	3.105E+00	3.862E+00	5.679E+00	7.420E+00	8.329E+00	9.843E+00	1.083E+01	1.136E+01	1.166E+01	1.196E+01	1.212E+01	1.212E+01
NO_2	8.140E-02	1.465E-01	1.953E-01	2.767E-01	3.418E-01	4.557E-01	6.673E-01	8.300E-01	1.221E+00	1.595E+00	1.790E+00	2.116E+00	2.327E+00	2.441E+00	2.506E+00	2.572E+00	2.604E+00	2.604E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of FBDD**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.817E+00	3.906E-01	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.360E+00	1.367E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.360E+00	1.367E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.634E+00	7.812E-01	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.726E+00	5.859E-01	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.817E+00	3.906E-01	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.726E+00	5.859E-01	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.817E+00	3.906E-01	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.817E+00	3.906E-01	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.726E+00	5.859E-01	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.634E+00	7.812E-01	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.543E+00	9.765E-01	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.360E+00	1.367E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.634E+00	7.812E-01	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.726E+00	5.859E-01	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.817E+00	3.906E-01	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.817E+00	3.906E-01	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.086E-01	1.953E-01	0.000E+00	0.000E+00

Remark:

Number of cold starts and sitting time were estimated based on planned public transport services (i.e. number of route services and operation frequencies) and existing PTIs with similar public transport services.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

PTI in Pang Loon Tei (FBDD_Diesel)

Cold Idling Emission

Idling Time for Terminating Buses =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	FBDD (Diesel)									FBDD (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.355E-01	6.407E-02	3.006E-03	3.006E-03
0700 - 0800	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.174E+00	2.243E-01	1.052E-02	1.052E-02
0800 - 0900	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.174E+00	2.243E-01	1.052E-02	1.052E-02
0900 - 1000	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	6.709E-01	1.281E-01	6.011E-03	6.011E-03
1000 - 1100	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	5.032E-01	9.611E-02	4.509E-03	4.509E-03
1100 - 1200	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.355E-01	6.407E-02	3.006E-03	3.006E-03
1200 - 1300	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	5.032E-01	9.611E-02	4.509E-03	4.509E-03
1300 - 1400	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.355E-01	6.407E-02	3.006E-03	3.006E-03
1400 - 1500	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.355E-01	6.407E-02	3.006E-03	3.006E-03
1500 - 1600	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	5.032E-01	9.611E-02	4.509E-03	4.509E-03
1600 - 1700	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	6.709E-01	1.281E-01	6.011E-03	6.011E-03
1700 - 1800	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	8.387E-01	1.602E-01	7.514E-03	7.514E-03
1800 - 1900	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.174E+00	2.243E-01	1.052E-02	1.052E-02
1900 - 2000	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	6.709E-01	1.281E-01	6.011E-03	6.011E-03
2000 - 2100	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	5.032E-01	9.611E-02	4.509E-03	4.509E-03
2100 - 2200	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.355E-01	6.407E-02	3.006E-03	3.006E-03
2200 - 2300	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.355E-01	6.407E-02	3.006E-03	3.006E-03
2300 - 2400	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.677E-01	3.204E-02	1.503E-03	1.503E-03

Average Distance from Starting Place to PTI Egress =	125	m
Average Spread Distance outside PTI =	575	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within PTI (g)				Adjusted Starting Emission Outside PTI (g)				Starting Emission Rate Outside PTI (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	3.355E-01	6.407E-02	3.006E-03	3.006E-03	1.677E-01	3.204E-02	1.503E-03	1.503E-03	2.945E-01	6.403E-02	0.000E+00	0.000E+00	1.355E+00	2.945E-01	0.000E+00	0.000E+00	3.764E-04	8.182E-05	0.000E+00	0.000E+00
0700 - 0800	1.174E+00	2.243E-01	1.052E-02	1.052E-02	5.871E-01	1.121E-01	5.260E-03	5.260E-03	1.031E+00	2.241E-01	0.000E+00	0.000E+00	4.742E+00	1.031E+00	0.000E+00	0.000E+00	1.317E-03	2.864E-04	0.000E+00	0.000E+00
0800 - 0900	1.174E+00	2.243E-01	1.052E-02	1.052E-02	5.871E-01	1.121E-01	5.260E-03	5.260E-03	1.031E+00	2.241E-01	0.000E+00	0.000E+00	4.742E+00	1.031E+00	0.000E+00	0.000E+00	1.317E-03	2.864E-04	0.000E+00	0.000E+00
0900 - 1000	6.709E-01	1.281E-01	6.011E-03	6.011E-03	3.355E-01	6.407E-02	3.006E-03	3.006E-03	5.891E-01	1.281E-01	0.000E+00	0.000E+00	2.710E+00	5.891E-01	0.000E+00	0.000E+00	7.527E-04	1.636E-04	0.000E+00	0.000E+00
1000 - 1100	5.032E-01	9.611E-02	4.509E-03	4.509E-03	2.516E-01	4.805E-02	2.254E-03	2.254E-03	4.418E-01	9.604E-02	0.000E+00	0.000E+00	2.032E+00	4.418E-01	0.000E+00	0.000E+00	5.646E-04	1.227E-04	0.000E+00	0.000E+00
1100 - 1200	3.355E-01	6.407E-02	3.006E-03	3.006E-03	1.677E-01	3.204E-02	1.503E-03	1.503E-03	2.945E-01	6.403E-02	0.000E+00	0.000E+00	1.355E+00	2.945E-01	0.000E+00	0.000E+00	3.764E-04	8.182E-05	0.000E+00	0.000E+00
1200 - 1300	5.032E-01	9.611E-02	4.509E-03	4.509E-03	2.516E-01	4.805E-02	2.254E-03	2.254E-03	4.418E-01	9.604E-02	0.000E+00	0.000E+00	2.032E+00	4.418E-01	0.000E+00	0.000E+00	5.646E-04	1.227E-04	0.000E+00	0.000E+00
1300 - 1400	3.355E-01	6.407E-02	3.006E-03	3.006E-03	1.677E-01	3.204E-02	1.503E-03	1.503E-03	2.945E-01	6.403E-02	0.000E+00	0.000E+00	1.355E+00	2.945E-01	0.000E+00	0.000E+00	3.764E-04	8.182E-05	0.000E+00	0.000E+00
1400 - 1500	3.355E-01	6.407E-02	3.006E-03	3.006E-03	1.677E-01	3.204E-02	1.503E-03	1.503E-03	2.945E-01	6.403E-02	0.000E+00	0.000E+00	1.355E+00	2.945E-01	0.000E+00	0.000E+00	3.764E-04	8.182E-05	0.000E+00	0.000E+00
1500 - 1600	5.032E-01	9.611E-02	4.509E-03	4.509E-03	2.516E-01	4.805E-02	2.254E-03	2.254E-03	4.418E-01	9.604E-02	0.000E+00	0.000E+00	2.032E+00	4.418E-01	0.000E+00	0.000E+00	5.646E-04	1.227E-04	0.000E+00	0.000E+00
1600 - 1700	6.709E-01	1.281E-01	6.011E-03	6.011E-03	3.355E-01	6.407E-02	3.006E-03	3.006E-03	5.891E-01	1.281E-01	0.000E+00	0.000E+00	2.710E+00	5.891E-01	0.000E+00	0.000E+00	7.527E-04	1.636E-04	0.000E+00	0.000E+00
1700 - 1800	8.387E-01	1.602E-01	7.514E-03	7.514E-03	4.193E-01	8.009E-02	3.757E-03	3.757E-03	7.364E-01	1.601E-01	0.000E+00	0.000E+00	3.387E+00	7.363E-01	0.000E+00	0.000E+00	9.409E-04	2.045E-04	0.000E+00	0.000E+00
1800 - 1900	1.174E+00	2.243E-01	1.052E-02	1.052E-02	5.871E-01	1.121E-01	5.260E-03	5.260E-03	1.031E+00	2.241E-01	0.000E+00	0.000E+00	4.742E+00	1.031E+00	0.000E+00	0.000E+00	1.317E-03	2.864E-04	0.000E+00	0.000E+00
1900 - 2000	6.709E-01	1.281E-01	6.011E-03	6.011E-03	3.355E-01	6.407E-02	3.006E-03	3.006E-03	5.891E-01	1.281E-01	0.000E+00	0.000E+00	2.710E+00	5.891E-01	0.000E+00	0.000E+00	7.527E-04	1.636E-04	0.000E+00	0.000E+00
2000 - 2100	5.032E-01	9.611E-02	4.509E-03	4.509E-03	2.516E-01	4.805E-02	2.254E-03	2.254E-03	4.418E-01	9.604E-02	0.000E+00	0.000E+00	2.032E+00	4.418E-01	0.000E+00	0.000E+00	5.646E-04	1.227E-04	0.000E+00	0.000E+00
2100 - 2200	3.355E-01	6.407E-02	3.006E-03	3.006E-03	1.677E-01	3.204E-02	1.503E-03	1.503E-03	2.945E-01	6.403E-02	0.000E+00	0.000E+00	1.355E+00	2.945E-01	0.000E+00	0.000E+00	3.764E-04	8.182E-05	0.000E+00	0.000E+00
2200 - 2300	3.355E-01	6.407E-02	3.006E-03	3.006E-03	1.677E-01	3.204E-02	1.503E-03	1.503E-03	2.945E-01	6.403E-02	0.000E+00	0.000E+00	1.355E+00	2.945E-01	0.000E+00	0.000E+00	3.764E-04	8.182E-05	0.000E+00	0.000E+00
2300 - 2400	1.677E-01	3.204E-02	1.503E-03	1.503E-03	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.473E-01	3.201E-02	0.000E+00	0.000E+00	6.775E-01	1.473E-01	0.000E+00	0.000E+00	1.882E-04	4.091E-05	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

PTI in Pang Loon Tei (FBDD)

Running Emission

Average Travelling Distance within PTI =	300	m
Average Travelling Speed =	10	km/h

Hour	FBDD								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within PTI (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0	5.124E+00	9.787E-01	1.525E-01	1.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0	5.124E+00	9.787E-01	1.525E-01	1.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0	5.124E+00	9.787E-01	1.525E-01	1.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0	5.124E+00	9.787E-01	1.525E-01	1.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0	5.124E+00	9.787E-01	1.525E-01	1.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0	5.124E+00	9.787E-01	1.525E-01	1.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2	5.124E+00	9.787E-01	1.525E-01	1.403E-01	3.074E+00	5.872E-01	9.150E-02	8.418E-02
0700 - 0800	7	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.076E+01	2.055E+00	3.202E-01	2.946E-01
0800 - 0900	7	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.076E+01	2.055E+00	3.202E-01	2.946E-01
0900 - 1000	4	5.124E+00	9.787E-01	1.525E-01	1.403E-01	6.149E+00	1.174E+00	1.830E-01	1.684E-01
1000 - 1100	3	5.124E+00	9.787E-01	1.525E-01	1.403E-01	4.612E+00	8.808E-01	1.372E-01	1.263E-01
1100 - 1200	2	5.124E+00	9.787E-01	1.525E-01	1.403E-01	3.074E+00	5.872E-01	9.150E-02	8.418E-02
1200 - 1300	3	5.124E+00	9.787E-01	1.525E-01	1.403E-01	4.612E+00	8.808E-01	1.372E-01	1.263E-01
1300 - 1400	2	5.124E+00	9.787E-01	1.525E-01	1.403E-01	3.074E+00	5.872E-01	9.150E-02	8.418E-02
1400 - 1500	2	5.124E+00	9.787E-01	1.525E-01	1.403E-01	3.074E+00	5.872E-01	9.150E-02	8.418E-02
1500 - 1600	3	5.124E+00	9.787E-01	1.525E-01	1.403E-01	4.612E+00	8.808E-01	1.372E-01	1.263E-01
1600 - 1700	4	5.124E+00	9.787E-01	1.525E-01	1.403E-01	6.149E+00	1.174E+00	1.830E-01	1.684E-01
1700 - 1800	5	5.124E+00	9.787E-01	1.525E-01	1.403E-01	7.686E+00	1.468E+00	2.287E-01	2.104E-01
1800 - 1900	7	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.076E+01	2.055E+00	3.202E-01	2.946E-01
1900 - 2000	4	5.124E+00	9.787E-01	1.525E-01	1.403E-01	6.149E+00	1.174E+00	1.830E-01	1.684E-01
2000 - 2100	3	5.124E+00	9.787E-01	1.525E-01	1.403E-01	4.612E+00	8.808E-01	1.372E-01	1.263E-01
2100 - 2200	2	5.124E+00	9.787E-01	1.525E-01	1.403E-01	3.074E+00	5.872E-01	9.150E-02	8.418E-02
2200 - 2300	2	5.124E+00	9.787E-01	1.525E-01	1.403E-01	3.074E+00	5.872E-01	9.150E-02	8.418E-02
2300 - 2400	1	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.537E+00	2.936E-01	4.575E-02	4.209E-02

Idling Emission

Idling Time for Non-terminating Buses =	1	min

Hour	FBDD								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

PTI in Pang Loon Tei (FBDD)

Total Hourly Emission

Hour	Emission Within PTI							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	3.704E+00	7.153E-01	9.451E-02	8.719E-02	1.029E-03	1.987E-04	2.625E-05	2.422E-05
0700 - 0800	1.297E+01	2.504E+00	3.308E-01	3.051E-01	3.602E-03	6.955E-04	9.188E-05	8.476E-05
0800 - 0900	1.297E+01	2.504E+00	3.308E-01	3.051E-01	3.602E-03	6.955E-04	9.188E-05	8.476E-05
0900 - 1000	7.409E+00	1.431E+00	1.890E-01	1.744E-01	2.058E-03	3.974E-04	5.250E-05	4.844E-05
1000 - 1100	5.557E+00	1.073E+00	1.418E-01	1.308E-01	1.544E-03	2.981E-04	3.938E-05	3.633E-05
1100 - 1200	3.704E+00	7.153E-01	9.451E-02	8.719E-02	1.029E-03	1.987E-04	2.625E-05	2.422E-05
1200 - 1300	5.557E+00	1.073E+00	1.418E-01	1.308E-01	1.544E-03	2.981E-04	3.938E-05	3.633E-05
1300 - 1400	3.704E+00	7.153E-01	9.451E-02	8.719E-02	1.029E-03	1.987E-04	2.625E-05	2.422E-05
1400 - 1500	3.704E+00	7.153E-01	9.451E-02	8.719E-02	1.029E-03	1.987E-04	2.625E-05	2.422E-05
1500 - 1600	5.557E+00	1.073E+00	1.418E-01	1.308E-01	1.544E-03	2.981E-04	3.938E-05	3.633E-05
1600 - 1700	7.409E+00	1.431E+00	1.890E-01	1.744E-01	2.058E-03	3.974E-04	5.250E-05	4.844E-05
1700 - 1800	9.261E+00	1.788E+00	2.363E-01	2.180E-01	2.573E-03	4.968E-04	6.563E-05	6.055E-05
1800 - 1900	1.297E+01	2.504E+00	3.308E-01	3.051E-01	3.602E-03	6.955E-04	9.188E-05	8.476E-05
1900 - 2000	7.409E+00	1.431E+00	1.890E-01	1.744E-01	2.058E-03	3.974E-04	5.250E-05	4.844E-05
2000 - 2100	5.557E+00	1.073E+00	1.418E-01	1.308E-01	1.544E-03	2.981E-04	3.938E-05	3.633E-05
2100 - 2200	3.704E+00	7.153E-01	9.451E-02	8.719E-02	1.029E-03	1.987E-04	2.625E-05	2.422E-05
2200 - 2300	3.704E+00	7.153E-01	9.451E-02	8.719E-02	1.029E-03	1.987E-04	2.625E-05	2.422E-05
2300 - 2400	1.852E+00	3.577E-01	4.725E-02	4.359E-02	5.145E-04	9.935E-05	1.313E-05	1.211E-05

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Lok Ma Chau Station PTI (FBDD_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	3.786E-01	6.814E-01	9.086E-01	1.287E+00	1.590E+00	2.120E+00	3.105E+00	3.862E+00	5.679E+00	7.420E+00	8.329E+00	9.843E+00	1.083E+01	1.136E+01	1.166E+01	1.196E+01	1.212E+01	1.212E+01
NO_2	8.140E-02	1.465E-01	1.953E-01	2.767E-01	3.418E-01	4.557E-01	6.673E-01	8.300E-01	1.221E+00	1.595E+00	1.790E+00	2.116E+00	2.327E+00	2.441E+00	2.506E+00	2.572E+00	2.604E+00	2.604E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of FBDD**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.817E+00	3.906E-01	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.452E+00	1.172E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.452E+00	1.172E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.726E+00	5.859E-01	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.817E+00	3.906E-01	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.817E+00	3.906E-01	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.817E+00	3.906E-01	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.817E+00	3.906E-01	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.817E+00	3.906E-01	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.726E+00	5.859E-01	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.726E+00	5.859E-01	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.634E+00	7.812E-01	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.452E+00	1.172E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.634E+00	7.812E-01	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.817E+00	3.906E-01	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.817E+00	3.906E-01	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.086E-01	1.953E-01	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.086E-01	1.953E-01	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the PTI and operators' published schedules, while sitting time were obtained based on on-site observations at PTI.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Lok Ma Chau Station PTI (FBDD_Diesel)

Cold Idling Emission

Idling Time for Terminating Buses =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	FBDD (Diesel)									FBDD (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.355E-01	6.407E-02	3.006E-03	3.006E-03
0700 - 0800	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.006E+00	1.922E-01	9.017E-03	9.017E-03
0800 - 0900	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.006E+00	1.922E-01	9.017E-03	9.017E-03
0900 - 1000	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	5.032E-01	9.611E-02	4.509E-03	4.509E-03
1000 - 1100	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.355E-01	6.407E-02	3.006E-03	3.006E-03
1100 - 1200	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.355E-01	6.407E-02	3.006E-03	3.006E-03
1200 - 1300	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.355E-01	6.407E-02	3.006E-03	3.006E-03
1300 - 1400	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.355E-01	6.407E-02	3.006E-03	3.006E-03
1400 - 1500	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.355E-01	6.407E-02	3.006E-03	3.006E-03
1500 - 1600	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	5.032E-01	9.611E-02	4.509E-03	4.509E-03
1600 - 1700	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	5.032E-01	9.611E-02	4.509E-03	4.509E-03
1700 - 1800	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	6.709E-01	1.281E-01	6.011E-03	6.011E-03
1800 - 1900	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.006E+00	1.922E-01	9.017E-03	9.017E-03
1900 - 2000	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	6.709E-01	1.281E-01	6.011E-03	6.011E-03
2000 - 2100	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.355E-01	6.407E-02	3.006E-03	3.006E-03
2100 - 2200	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.355E-01	6.407E-02	3.006E-03	3.006E-03
2200 - 2300	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.677E-01	3.204E-02	1.503E-03	1.503E-03
2300 - 2400	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.677E-01	3.204E-02	1.503E-03	1.503E-03

Average Distance from Starting Place to PTI Egress =	50	m
Average Spread Distance outside PTI =	650	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within PTI (g)				Adjusted Starting Emission Outside PTI (g)				Starting Emission Rate Outside PTI (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	3.355E-01	6.407E-02	3.006E-03	3.006E-03	1.677E-01	3.204E-02	1.503E-03	1.503E-03	1.178E-01	2.561E-02	0.000E+00	0.000E+00	1.532E+00	3.330E-01	0.000E+00	0.000E+00	4.255E-04	9.249E-05	0.000E+00	0.000E+00
0700 - 0800	1.006E+00	1.922E-01	9.017E-03	9.017E-03	5.032E-01	9.611E-02	4.509E-03	4.509E-03	3.535E-01	7.684E-02	0.000E+00	0.000E+00	4.595E+00	9.989E-01	0.000E+00	0.000E+00	1.276E-03	2.775E-04	0.000E+00	0.000E+00
0800 - 0900	1.006E+00	1.922E-01	9.017E-03	9.017E-03	5.032E-01	9.611E-02	4.509E-03	4.509E-03	3.535E-01	7.684E-02	0.000E+00	0.000E+00	4.595E+00	9.989E-01	0.000E+00	0.000E+00	1.276E-03	2.775E-04	0.000E+00	0.000E+00
0900 - 1000	5.032E-01	9.611E-02	4.509E-03	4.509E-03	2.516E-01	4.805E-02	2.254E-03	2.254E-03	1.767E-01	3.842E-02	0.000E+00	0.000E+00	2.297E+00	4.994E-01	0.000E+00	0.000E+00	6.382E-04	1.387E-04	0.000E+00	0.000E+00
1000 - 1100	3.355E-01	6.407E-02	3.006E-03	3.006E-03	1.677E-01	3.204E-02	1.503E-03	1.503E-03	1.178E-01	2.561E-02	0.000E+00	0.000E+00	1.532E+00	3.330E-01	0.000E+00	0.000E+00	4.255E-04	9.249E-05	0.000E+00	0.000E+00
1100 - 1200	3.355E-01	6.407E-02	3.006E-03	3.006E-03	1.677E-01	3.204E-02	1.503E-03	1.503E-03	1.178E-01	2.561E-02	0.000E+00	0.000E+00	1.532E+00	3.330E-01	0.000E+00	0.000E+00	4.255E-04	9.249E-05	0.000E+00	0.000E+00
1200 - 1300	3.355E-01	6.407E-02	3.006E-03	3.006E-03	1.677E-01	3.204E-02	1.503E-03	1.503E-03	1.178E-01	2.561E-02	0.000E+00	0.000E+00	1.532E+00	3.330E-01	0.000E+00	0.000E+00	4.255E-04	9.249E-05	0.000E+00	0.000E+00
1300 - 1400	3.355E-01	6.407E-02	3.006E-03	3.006E-03	1.677E-01	3.204E-02	1.503E-03	1.503E-03	1.178E-01	2.561E-02	0.000E+00	0.000E+00	1.532E+00	3.330E-01	0.000E+00	0.000E+00	4.255E-04	9.249E-05	0.000E+00	0.000E+00
1400 - 1500	3.355E-01	6.407E-02	3.006E-03	3.006E-03	1.677E-01	3.204E-02	1.503E-03	1.503E-03	1.178E-01	2.561E-02	0.000E+00	0.000E+00	1.532E+00	3.330E-01	0.000E+00	0.000E+00	4.255E-04	9.249E-05	0.000E+00	0.000E+00
1500 - 1600	5.032E-01	9.611E-02	4.509E-03	4.509E-03	2.516E-01	4.805E-02	2.254E-03	2.254E-03	1.767E-01	3.842E-02	0.000E+00	0.000E+00	2.297E+00	4.994E-01	0.000E+00	0.000E+00	6.382E-04	1.387E-04	0.000E+00	0.000E+00
1600 - 1700	5.032E-01	9.611E-02	4.509E-03	4.509E-03	2.516E-01	4.805E-02	2.254E-03	2.254E-03	1.767E-01	3.842E-02	0.000E+00	0.000E+00	2.297E+00	4.994E-01	0.000E+00	0.000E+00	6.382E-04	1.387E-04	0.000E+00	0.000E+00
1700 - 1800	6.709E-01	1.281E-01	6.011E-03	6.011E-03	3.355E-01	6.407E-02	3.006E-03	3.006E-03	2.356E-01	5.122E-02	0.000E+00	0.000E+00	3.063E+00	6.659E-01	0.000E+00	0.000E+00	8.509E-04	1.850E-04	0.000E+00	0.000E+00
1800 - 1900	1.006E+00	1.922E-01	9.017E-03	9.017E-03	5.032E-01	9.611E-02	4.509E-03	4.509E-03	3.535E-01	7.684E-02	0.000E+00	0.000E+00	4.595E+00	9.989E-01	0.000E+00	0.000E+00	1.276E-03	2.775E-04	0.000E+00	0.000E+00
1900 - 2000	6.709E-01	1.281E-01	6.011E-03	6.011E-03	3.355E-01	6.407E-02	3.006E-03	3.006E-03	2.356E-01	5.122E-02	0.000E+00	0.000E+00	3.063E+00	6.659E-01	0.000E+00	0.000E+00	8.509E-04	1.850E-04	0.000E+00	0.000E+00
2000 - 2100	3.355E-01	6.407E-02	3.006E-03	3.006E-03	1.677E-01	3.204E-02	1.503E-03	1.503E-03	1.178E-01	2.561E-02	0.000E+00	0.000E+00	1.532E+00	3.330E-01	0.000E+00	0.000E+00	4.255E-04	9.249E-05	0.000E+00	0.000E+00
2100 - 2200	3.355E-01	6.407E-02	3.006E-03	3.006E-03	1.677E-01	3.204E-02	1.503E-03	1.503E-03	1.178E-01	2.561E-02	0.000E+00	0.000E+00	1.532E+00	3.330E-01	0.000E+00	0.000E+00	4.255E-04	9.249E-05	0.000E+00	0.000E+00
2200 - 2300	1.677E-01	3.204E-02	1.503E-03	1.503E-03	8.387E-02	1.602E-02	7.514E-04	7.514E-04	5.891E-02	1.281E-02	0.000E+00	0.000E+00	7.658E-01	1.665E-01	0.000E+00	0.000E+00	2.127E-04	4.624E-05	0.000E+00	0.000E+00
2300 - 2400	1.677E-01	3.204E-02	1.503E-03	1.503E-03	8.387E-02	1.602E-02	7.514E-04	7.514E-04	5.891E-02	1.281E-02	0.000E+00	0.000E+00	7.658E-01	1.665E-01	0.000E+00	0.000E+00	2.127E-04	4.624E-05	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Lok Ma Chau Station PTI (FBDD)

Running Emission

Average Travelling Distance within PTI =	100	m
Average Travelling Speed =	10	km/h

Hour	FBDD								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within PTI (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0	5.124E+00	9.787E-01	1.525E-01	1.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0	5.124E+00	9.787E-01	1.525E-01	1.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0	5.124E+00	9.787E-01	1.525E-01	1.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0	5.124E+00	9.787E-01	1.525E-01	1.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0	5.124E+00	9.787E-01	1.525E-01	1.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0	5.124E+00	9.787E-01	1.525E-01	1.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.025E+00	1.957E-01	3.050E-02	2.806E-02
0700 - 0800	6	5.124E+00	9.787E-01	1.525E-01	1.403E-01	3.074E+00	5.872E-01	9.150E-02	8.418E-02
0800 - 0900	6	5.124E+00	9.787E-01	1.525E-01	1.403E-01	3.074E+00	5.872E-01	9.150E-02	8.418E-02
0900 - 1000	3	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.537E+00	2.936E-01	4.575E-02	4.209E-02
1000 - 1100	2	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.025E+00	1.957E-01	3.050E-02	2.806E-02
1100 - 1200	2	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.025E+00	1.957E-01	3.050E-02	2.806E-02
1200 - 1300	2	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.025E+00	1.957E-01	3.050E-02	2.806E-02
1300 - 1400	2	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.025E+00	1.957E-01	3.050E-02	2.806E-02
1400 - 1500	2	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.025E+00	1.957E-01	3.050E-02	2.806E-02
1500 - 1600	3	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.537E+00	2.936E-01	4.575E-02	4.209E-02
1600 - 1700	3	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.537E+00	2.936E-01	4.575E-02	4.209E-02
1700 - 1800	4	5.124E+00	9.787E-01	1.525E-01	1.403E-01	2.050E+00	3.915E-01	6.100E-02	5.612E-02
1800 - 1900	6	5.124E+00	9.787E-01	1.525E-01	1.403E-01	3.074E+00	5.872E-01	9.150E-02	8.418E-02
1900 - 2000	4	5.124E+00	9.787E-01	1.525E-01	1.403E-01	2.050E+00	3.915E-01	6.100E-02	5.612E-02
2000 - 2100	2	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.025E+00	1.957E-01	3.050E-02	2.806E-02
2100 - 2200	2	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.025E+00	1.957E-01	3.050E-02	2.806E-02
2200 - 2300	1	5.124E+00	9.787E-01	1.525E-01	1.403E-01	5.124E-01	9.787E-02	1.525E-02	1.403E-02
2300 - 2400	1	5.124E+00	9.787E-01	1.525E-01	1.403E-01	5.124E-01	9.787E-02	1.525E-02	1.403E-02

Idling Emission

Idling Time for Non-terminating Buses =	1	min

Hour	FBDD								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Lok Ma Chau Station PTI (FBDD)

Total Hourly Emission

Hour	Emission Within PTI							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.478E+00	2.854E-01	3.351E-02	3.107E-02	4.106E-04	7.928E-05	9.307E-06	8.629E-06
0700 - 0800	4.434E+00	8.563E-01	1.005E-01	9.320E-02	1.232E-03	2.379E-04	2.792E-05	2.589E-05
0800 - 0900	4.434E+00	8.563E-01	1.005E-01	9.320E-02	1.232E-03	2.379E-04	2.792E-05	2.589E-05
0900 - 1000	2.217E+00	4.281E-01	5.026E-02	4.660E-02	6.159E-04	1.189E-04	1.396E-05	1.294E-05
1000 - 1100	1.478E+00	2.854E-01	3.351E-02	3.107E-02	4.106E-04	7.928E-05	9.307E-06	8.629E-06
1100 - 1200	1.478E+00	2.854E-01	3.351E-02	3.107E-02	4.106E-04	7.928E-05	9.307E-06	8.629E-06
1200 - 1300	1.478E+00	2.854E-01	3.351E-02	3.107E-02	4.106E-04	7.928E-05	9.307E-06	8.629E-06
1300 - 1400	1.478E+00	2.854E-01	3.351E-02	3.107E-02	4.106E-04	7.928E-05	9.307E-06	8.629E-06
1400 - 1500	1.478E+00	2.854E-01	3.351E-02	3.107E-02	4.106E-04	7.928E-05	9.307E-06	8.629E-06
1500 - 1600	2.217E+00	4.281E-01	5.026E-02	4.660E-02	6.159E-04	1.189E-04	1.396E-05	1.294E-05
1600 - 1700	2.217E+00	4.281E-01	5.026E-02	4.660E-02	6.159E-04	1.189E-04	1.396E-05	1.294E-05
1700 - 1800	2.956E+00	5.708E-01	6.701E-02	6.213E-02	8.212E-04	1.586E-04	1.861E-05	1.726E-05
1800 - 1900	4.434E+00	8.563E-01	1.005E-01	9.320E-02	1.232E-03	2.379E-04	2.792E-05	2.589E-05
1900 - 2000	2.956E+00	5.708E-01	6.701E-02	6.213E-02	8.212E-04	1.586E-04	1.861E-05	1.726E-05
2000 - 2100	1.478E+00	2.854E-01	3.351E-02	3.107E-02	4.106E-04	7.928E-05	9.307E-06	8.629E-06
2100 - 2200	1.478E+00	2.854E-01	3.351E-02	3.107E-02	4.106E-04	7.928E-05	9.307E-06	8.629E-06
2200 - 2300	7.391E-01	1.427E-01	1.675E-02	1.553E-02	2.053E-04	3.964E-05	4.654E-06	4.315E-06
2300 - 2400	7.391E-01	1.427E-01	1.675E-02	1.553E-02	2.053E-04	3.964E-05	4.654E-06	4.315E-06

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Lok Ma Chau Station PTI (PLB_Diesel)

Starting Emission

No. of PLB(Diesel) to No. of PLB (LPG) Ratio =		8.91

	Starting Emission Factor (g/trip)																	
NO	4.830E-02	8.700E-02	1.159E-01	1.642E-01	2.029E-01	2.706E-01	3.961E-01	4.928E-01	7.247E-01	9.470E-01	1.063E+00	1.256E+00	1.382E+00	1.449E+00	1.488E+00	1.527E+00	1.546E+00	1.546E+00
NO_2	1.880E-02	3.380E-02	4.510E-02	6.390E-02	7.890E-02	1.052E-01	1.541E-01	1.916E-01	2.818E-01	3.682E-01	4.133E-01	4.885E-01	5.373E-01	5.636E-01	5.787E-01	5.937E-01	6.012E-01	6.012E-01
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of PLB_Diesel**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	6.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	7.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	7.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	**Total Starting Emission (g)**			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	3.126E-01	1.217E-01	0.000E+00	0.000E+00
0700 - 0800	7.295E-01	2.839E-01	0.000E+00	0.000E+00
0800 - 0900	8.337E-01	3.244E-01	0.000E+00	0.000E+00
0900 - 1000	4.168E-01	1.622E-01	0.000E+00	0.000E+00
1000 - 1100	3.126E-01	1.217E-01	0.000E+00	0.000E+00
1100 - 1200	3.126E-01	1.217E-01	0.000E+00	0.000E+00
1200 - 1300	3.126E-01	1.217E-01	0.000E+00	0.000E+00
1300 - 1400	3.126E-01	1.217E-01	0.000E+00	0.000E+00
1400 - 1500	3.126E-01	1.217E-01	0.000E+00	0.000E+00
1500 - 1600	4.168E-01	1.622E-01	0.000E+00	0.000E+00
1600 - 1700	4.168E-01	1.622E-01	0.000E+00	0.000E+00
1700 - 1800	5.210E-01	2.028E-01	0.000E+00	0.000E+00
1800 - 1900	8.337E-01	3.244E-01	0.000E+00	0.000E+00
1900 - 2000	5.210E-01	2.028E-01	0.000E+00	0.000E+00
2000 - 2100	3.126E-01	1.217E-01	0.000E+00	0.000E+00
2100 - 2200	3.126E-01	1.217E-01	0.000E+00	0.000E+00
2200 - 2300	2.084E-01	8.110E-02	0.000E+00	0.000E+00
2300 - 2400	1.042E-01	4.055E-02	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the PTI and operators' published schedules, while sitting time were obtained based on on-site observations at PTI.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Lok Ma Chau Station PTI (PLB_Diesel)

Cold Idling Emission

Idling Time for Terminating PLB =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	PLB (Diesel)									PLB (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.70	2.071E-02	8.051E-03	4.333E-04	4.333E-04	1.117E-01	4.343E-02	2.338E-03	2.338E-03
0700 - 0800	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.29	2.071E-02	8.051E-03	4.333E-04	4.333E-04	2.607E-01	1.013E-01	5.455E-03	5.455E-03
0800 - 0900	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.19	2.071E-02	8.051E-03	4.333E-04	4.333E-04	2.979E-01	1.158E-01	6.234E-03	6.234E-03
0900 - 1000	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.60	2.071E-02	8.051E-03	4.333E-04	4.333E-04	1.490E-01	5.791E-02	3.117E-03	3.117E-03
1000 - 1100	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.70	2.071E-02	8.051E-03	4.333E-04	4.333E-04	1.117E-01	4.343E-02	2.338E-03	2.338E-03
1100 - 1200	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.70	2.071E-02	8.051E-03	4.333E-04	4.333E-04	1.117E-01	4.343E-02	2.338E-03	2.338E-03
1200 - 1300	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.70	2.071E-02	8.051E-03	4.333E-04	4.333E-04	1.117E-01	4.343E-02	2.338E-03	2.338E-03
1300 - 1400	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.70	2.071E-02	8.051E-03	4.333E-04	4.333E-04	1.117E-01	4.343E-02	2.338E-03	2.338E-03
1400 - 1500	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.70	2.071E-02	8.051E-03	4.333E-04	4.333E-04	1.117E-01	4.343E-02	2.338E-03	2.338E-03
1500 - 1600	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.60	2.071E-02	8.051E-03	4.333E-04	4.333E-04	1.490E-01	5.791E-02	3.117E-03	3.117E-03
1600 - 1700	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.60	2.071E-02	8.051E-03	4.333E-04	4.333E-04	1.490E-01	5.791E-02	3.117E-03	3.117E-03
1700 - 1800	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.50	2.071E-02	8.051E-03	4.333E-04	4.333E-04	1.862E-01	7.239E-02	3.896E-03	3.896E-03
1800 - 1900	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.19	2.071E-02	8.051E-03	4.333E-04	4.333E-04	2.979E-01	1.158E-01	6.234E-03	6.234E-03
1900 - 2000	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.50	2.071E-02	8.051E-03	4.333E-04	4.333E-04	1.862E-01	7.239E-02	3.896E-03	3.896E-03
2000 - 2100	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.70	2.071E-02	8.051E-03	4.333E-04	4.333E-04	1.117E-01	4.343E-02	2.338E-03	2.338E-03
2100 - 2200	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.70	2.071E-02	8.051E-03	4.333E-04	4.333E-04	1.117E-01	4.343E-02	2.338E-03	2.338E-03
2200 - 2300	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.80	2.071E-02	8.051E-03	4.333E-04	4.333E-04	7.449E-02	2.896E-02	1.558E-03	1.558E-03
2300 - 2400	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.90	2.071E-02	8.051E-03	4.333E-04	4.333E-04	3.724E-02	1.448E-02	7.792E-04	7.792E-04

Average Distance from Starting Place to PTI Egress =	50.0	m
Average Spread Distance outside PTI =	650.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within PTI (g)				Adjusted Starting Emission Outside PTI (g)				Starting Emission Rate Outside PTI (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.117E-01	4.343E-02	2.338E-03	2.338E-03	5.587E-02	2.172E-02	1.169E-03	1.169E-03	1.834E-02	7.138E-03	0.000E+00	0.000E+00	2.384E-01	9.280E-02	0.000E+00	0.000E+00	6.623E-05	2.578E-05	0.000E+00	0.000E+00
0700 - 0800	2.607E-01	1.013E-01	5.455E-03	5.455E-03	1.304E-01	5.067E-02	2.727E-03	2.727E-03	4.279E-02	1.666E-02	0.000E+00	0.000E+00	5.563E-01	2.165E-01	0.000E+00	0.000E+00	1.545E-04	6.015E-05	0.000E+00	0.000E+00
0800 - 0900	2.979E-01	1.158E-01	6.234E-03	6.234E-03	1.490E-01	5.791E-02	3.117E-03	3.117E-03	4.891E-02	1.904E-02	0.000E+00	0.000E+00	6.358E-01	2.475E-01	0.000E+00	0.000E+00	1.766E-04	6.874E-05	0.000E+00	0.000E+00
0900 - 1000	1.490E-01	5.791E-02	3.117E-03	3.117E-03	7.449E-02	2.896E-02	1.558E-03	1.558E-03	2.445E-02	9.518E-03	0.000E+00	0.000E+00	3.179E-01	1.237E-01	0.000E+00	0.000E+00	8.830E-05	3.437E-05	0.000E+00	0.000E+00
1000 - 1100	1.117E-01	4.343E-02	2.338E-03	2.338E-03	5.587E-02	2.172E-02	1.169E-03	1.169E-03	1.834E-02	7.138E-03	0.000E+00	0.000E+00	2.384E-01	9.280E-02	0.000E+00	0.000E+00	6.623E-05	2.578E-05	0.000E+00	0.000E+00
1100 - 1200	1.117E-01	4.343E-02	2.338E-03	2.338E-03	5.587E-02	2.172E-02	1.169E-03	1.169E-03	1.834E-02	7.138E-03	0.000E+00	0.000E+00	2.384E-01	9.280E-02	0.000E+00	0.000E+00	6.623E-05	2.578E-05	0.000E+00	0.000E+00
1200 - 1300	1.117E-01	4.343E-02	2.338E-03	2.338E-03	5.587E-02	2.172E-02	1.169E-03	1.169E-03	1.834E-02	7.138E-03	0.000E+00	0.000E+00	2.384E-01	9.280E-02	0.000E+00	0.000E+00	6.623E-05	2.578E-05	0.000E+00	0.000E+00
1300 - 1400	1.117E-01	4.343E-02	2.338E-03	2.338E-03	5.587E-02	2.172E-02	1.169E-03	1.169E-03	1.834E-02	7.138E-03	0.000E+00	0.000E+00	2.384E-01	9.280E-02	0.000E+00	0.000E+00	6.623E-05	2.578E-05	0.000E+00	0.000E+00
1400 - 1500	1.117E-01	4.343E-02	2.338E-03	2.338E-03	5.587E-02	2.172E-02	1.169E-03	1.169E-03	1.834E-02	7.138E-03	0.000E+00	0.000E+00	2.384E-01	9.280E-02	0.000E+00	0.000E+00	6.623E-05	2.578E-05	0.000E+00	0.000E+00
1500 - 1600	1.490E-01	5.791E-02	3.117E-03	3.117E-03	7.449E-02	2.896E-02	1.558E-03	1.558E-03	2.445E-02	9.518E-03	0.000E+00	0.000E+00	3.179E-01	1.237E-01	0.000E+00	0.000E+00	8.830E-05	3.437E-05	0.000E+00	0.000E+00
1600 - 1700	1.490E-01	5.791E-02	3.117E-03	3.117E-03	7.449E-02	2.896E-02	1.558E-03	1.558E-03	2.445E-02	9.518E-03	0.000E+00	0.000E+00	3.179E-01	1.237E-01	0.000E+00	0.000E+00	8.830E-05	3.437E-05	0.000E+00	0.000E+00
1700 - 1800	1.862E-01	7.239E-02	3.896E-03	3.896E-03	9.311E-02	3.620E-02	1.948E-03	1.948E-03	3.057E-02	1.190E-02	0.000E+00	0.000E+00	3.974E-01	1.547E-01	0.000E+00	0.000E+00	1.104E-04	4.296E-05	0.000E+00	0.000E+00
1800 - 1900	2.979E-01	1.158E-01	6.234E-03	6.234E-03	1.490E-01	5.791E-02	3.117E-03	3.117E-03	4.891E-02	1.904E-02	0.000E+00	0.000E+00	6.358E-01	2.475E-01	0.000E+00	0.000E+00	1.766E-04	6.874E-05	0.000E+00	0.000E+00
1900 - 2000	1.862E-01	7.239E-02	3.896E-03	3.896E-03	9.311E-02	3.620E-02	1.948E-03	1.948E-03	3.057E-02	1.190E-02	0.000E+00	0.000E+00	3.974E-01	1.547E-01	0.000E+00	0.000E+00	1.104E-04	4.296E-05	0.000E+00	0.000E+00
2000 - 2100	1.117E-01	4.343E-02	2.338E-03	2.338E-03	5.587E-02	2.172E-02	1.169E-03	1.169E-03	1.834E-02	7.138E-03	0.000E+00	0.000E+00	2.384E-01	9.280E-02	0.000E+00	0.000E+00	6.623E-05	2.578E-05	0.000E+00	0.000E+00
2100 - 2200	1.117E-01	4.343E-02	2.338E-03	2.338E-03	5.587E-02	2.172E-02	1.169E-03	1.169E-03	1.834E-02	7.138E-03	0.000E+00	0.000E+00	2.384E-01	9.280E-02	0.000E+00	0.000E+00	6.623E-05	2.578E-05	0.000E+00	0.000E+00
2200 - 2300	7.449E-02	2.896E-02	1.558E-03	1.558E-03	3.724E-02	1.448E-02	7.792E-04	7.792E-04	1.223E-02	4.759E-03	0.000E+00	0.000E+00	1.589E-01	6.186E-02	0.000E+00	0.000E+00	4.415E-05	1.718E-05	0.000E+00	0.000E+00
2300 - 2400	3.724E-02	1.448E-02	7.792E-04	7.792E-04	1.862E-02	7.239E-03	3.896E-04	3.896E-04	6.113E-03	2.379E-03	0.000E+00	0.000E+00	7.947E-02	3.093E-02	0.000E+00	0.000E+00	2.208E-05	8.592E-06	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Lok Ma Chau Station PTI (PLB_LPG)

Starting Emission

No. of PLB(Diesel) to No. of PLB (LPG) Ratio =		8.91

	Starting Emission Factor (g/trip)																	
NO	1.990E+00	2.998E+00	4.769E+00	6.212E+00	7.327E+00	8.115E+00	8.574E+00	8.890E+00	8.857E+00	8.807E+00	8.740E+00	8.656E+00	8.554E+00	8.435E+00	8.299E+00	8.146E+00	7.975E+00	7.787E+00
NO_2	1.000E-02	1.510E-02	2.400E-02	3.120E-02	3.680E-02	4.080E-02	4.310E-02	4.470E-02	4.450E-02	4.430E-02	4.390E-02	4.350E-02	4.300E-02	4.240E-02	4.170E-02	4.090E-02	4.010E-02	3.910E-02
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of PLB_LPG**																		Total Starting Emission (g)			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.443E+00	7.263E-03	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.368E+00	1.695E-02	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.849E+00	1.937E-02	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.924E+00	9.684E-03	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.443E+00	7.263E-03	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.443E+00	7.263E-03	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.443E+00	7.263E-03	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.443E+00	7.263E-03	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.443E+00	7.263E-03	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.924E+00	9.684E-03	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.924E+00	9.684E-03	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.405E+00	1.210E-02	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.849E+00	1.937E-02	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.405E+00	1.210E-02	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.443E+00	7.263E-03	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.443E+00	7.263E-03	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.622E-01	4.842E-03	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.811E-01	2.421E-03	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the PTI and operators' published schedules, while sitting time were obtained based on on-site observations at PTI.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Lok Ma Chau Station PTI (PLB_LPG)

Cold Idling Emission

Idling Time for Terminating PLB =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	PLB (LPG)									PLB (LPG)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.30	3.075E-01	1.549E-03	4.861E-04	4.861E-04	1.861E-01	9.377E-04	2.942E-04	2.942E-04
0700 - 0800	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.71	3.075E-01	1.549E-03	4.861E-04	4.861E-04	4.342E-01	2.188E-03	6.865E-04	6.865E-04
0800 - 0900	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.81	3.075E-01	1.549E-03	4.861E-04	4.861E-04	4.962E-01	2.501E-03	7.846E-04	7.846E-04
0900 - 1000	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.40	3.075E-01	1.549E-03	4.861E-04	4.861E-04	2.481E-01	1.250E-03	3.923E-04	3.923E-04
1000 - 1100	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.30	3.075E-01	1.549E-03	4.861E-04	4.861E-04	1.861E-01	9.377E-04	2.942E-04	2.942E-04
1100 - 1200	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.30	3.075E-01	1.549E-03	4.861E-04	4.861E-04	1.861E-01	9.377E-04	2.942E-04	2.942E-04
1200 - 1300	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.30	3.075E-01	1.549E-03	4.861E-04	4.861E-04	1.861E-01	9.377E-04	2.942E-04	2.942E-04
1300 - 1400	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.30	3.075E-01	1.549E-03	4.861E-04	4.861E-04	1.861E-01	9.377E-04	2.942E-04	2.942E-04
1400 - 1500	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.30	3.075E-01	1.549E-03	4.861E-04	4.861E-04	1.861E-01	9.377E-04	2.942E-04	2.942E-04
1500 - 1600	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.40	3.075E-01	1.549E-03	4.861E-04	4.861E-04	2.481E-01	1.250E-03	3.923E-04	3.923E-04
1600 - 1700	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.40	3.075E-01	1.549E-03	4.861E-04	4.861E-04	2.481E-01	1.250E-03	3.923E-04	3.923E-04
1700 - 1800	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.50	3.075E-01	1.549E-03	4.861E-04	4.861E-04	3.101E-01	1.563E-03	4.904E-04	4.904E-04
1800 - 1900	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.81	3.075E-01	1.549E-03	4.861E-04	4.861E-04	4.962E-01	2.501E-03	7.846E-04	7.846E-04
1900 - 2000	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.50	3.075E-01	1.549E-03	4.861E-04	4.861E-04	3.101E-01	1.563E-03	4.904E-04	4.904E-04
2000 - 2100	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.30	3.075E-01	1.549E-03	4.861E-04	4.861E-04	1.861E-01	9.377E-04	2.942E-04	2.942E-04
2100 - 2200	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.30	3.075E-01	1.549E-03	4.861E-04	4.861E-04	1.861E-01	9.377E-04	2.942E-04	2.942E-04
2200 - 2300	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.20	3.075E-01	1.549E-03	4.861E-04	4.861E-04	1.241E-01	6.251E-04	1.962E-04	1.962E-04
2300 - 2400	0.00	2.365E-01	1.192E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.10	3.075E-01	1.549E-03	4.861E-04	4.861E-04	6.203E-02	3.126E-04	9.808E-05	9.808E-05

Average Distance from Starting Place to PTI Egress =	50.0	m
Average Spread Distance outside PTI =	100.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within PTI (g)				Adjusted Starting Emission Outside PTI (g)				Starting Emission Rate Outside PTI (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.861E-01	9.377E-04	2.942E-04	2.942E-04	9.304E-02	4.688E-04	1.471E-04	1.471E-04	4.501E-01	2.265E-03	0.000E+00	0.000E+00	9.001E-01	4.529E-03	0.000E+00	0.000E+00	2.500E-04	1.258E-06	0.000E+00	0.000E+00
0700 - 0800	4.342E-01	2.188E-03	6.865E-04	6.865E-04	2.171E-01	1.094E-03	3.433E-04	3.433E-04	1.050E+00	5.284E-03	0.000E+00	0.000E+00	2.100E+00	1.057E-02	0.000E+00	0.000E+00	5.834E-04	2.936E-06	0.000E+00	0.000E+00
0800 - 0900	4.962E-01	2.501E-03	7.846E-04	7.846E-04	2.481E-01	1.250E-03	3.923E-04	3.923E-04	1.200E+00	6.039E-03	0.000E+00	0.000E+00	2.400E+00	1.208E-02	0.000E+00	0.000E+00	6.668E-04	3.355E-06	0.000E+00	0.000E+00
0900 - 1000	2.481E-01	1.250E-03	3.923E-04	3.923E-04	1.241E-01	6.251E-04	1.962E-04	1.962E-04	6.001E-01	3.020E-03	0.000E+00	0.000E+00	1.200E+00	6.039E-03	0.000E+00	0.000E+00	3.334E-04	1.678E-06	0.000E+00	0.000E+00
1000 - 1100	1.861E-01	9.377E-04	2.942E-04	2.942E-04	9.304E-02	4.688E-04	1.471E-04	1.471E-04	4.501E-01	2.265E-03	0.000E+00	0.000E+00	9.001E-01	4.529E-03	0.000E+00	0.000E+00	2.500E-04	1.258E-06	0.000E+00	0.000E+00
1100 - 1200	1.861E-01	9.377E-04	2.942E-04	2.942E-04	9.304E-02	4.688E-04	1.471E-04	1.471E-04	4.501E-01	2.265E-03	0.000E+00	0.000E+00	9.001E-01	4.529E-03	0.000E+00	0.000E+00	2.500E-04	1.258E-06	0.000E+00	0.000E+00
1200 - 1300	1.861E-01	9.377E-04	2.942E-04	2.942E-04	9.304E-02	4.688E-04	1.471E-04	1.471E-04	4.501E-01	2.265E-03	0.000E+00	0.000E+00	9.001E-01	4.529E-03	0.000E+00	0.000E+00	2.500E-04	1.258E-06	0.000E+00	0.000E+00
1300 - 1400	1.861E-01	9.377E-04	2.942E-04	2.942E-04	9.304E-02	4.688E-04	1.471E-04	1.471E-04	4.501E-01	2.265E-03	0.000E+00	0.000E+00	9.001E-01	4.529E-03	0.000E+00	0.000E+00	2.500E-04	1.258E-06	0.000E+00	0.000E+00
1400 - 1500	1.861E-01	9.377E-04	2.942E-04	2.942E-04	9.304E-02	4.688E-04	1.471E-04	1.471E-04	4.501E-01	2.265E-03	0.000E+00	0.000E+00	9.001E-01	4.529E-03	0.000E+00	0.000E+00	2.500E-04	1.258E-06	0.000E+00	0.000E+00
1500 - 1600	2.481E-01	1.250E-03	3.923E-04	3.923E-04	1.241E-01	6.251E-04	1.962E-04	1.962E-04	6.001E-01	3.020E-03	0.000E+00	0.000E+00	1.200E+00	6.039E-03	0.000E+00	0.000E+00	3.334E-04	1.678E-06	0.000E+00	0.000E+00
1600 - 1700	2.481E-01	1.250E-03	3.923E-04	3.923E-04	1.241E-01	6.251E-04	1.962E-04	1.962E-04	6.001E-01	3.020E-03	0.000E+00	0.000E+00	1.200E+00	6.039E-03	0.000E+00	0.000E+00	3.334E-04	1.678E-06	0.000E+00	0.000E+00
1700 - 1800	3.101E-01	1.563E-03	4.904E-04	4.904E-04	1.551E-01	7.814E-04	2.452E-04	2.452E-04	7.501E-01	3.774E-03	0.000E+00	0.000E+00	1.500E+00	7.549E-03	0.000E+00	0.000E+00	4.167E-04	2.097E-06	0.000E+00	0.000E+00
1800 - 1900	4.962E-01	2.501E-03	7.846E-04	7.846E-04	2.481E-01	1.250E-03	3.923E-04	3.923E-04	1.200E+00	6.039E-03	0.000E+00	0.000E+00	2.400E+00	1.208E-02	0.000E+00	0.000E+00	6.668E-04	3.355E-06	0.000E+00	0.000E+00
1900 - 2000	3.101E-01	1.563E-03	4.904E-04	4.904E-04	1.551E-01	7.814E-04	2.452E-04	2.452E-04	7.501E-01	3.774E-03	0.000E+00	0.000E+00	1.500E+00	7.549E-03	0.000E+00	0.000E+00	4.167E-04	2.097E-06	0.000E+00	0.000E+00
2000 - 2100	1.861E-01	9.377E-04	2.942E-04	2.942E-04	9.304E-02	4.688E-04	1.471E-04	1.471E-04	4.501E-01	2.265E-03	0.000E+00	0.000E+00	9.001E-01	4.529E-03	0.000E+00	0.000E+00	2.500E-04	1.258E-06	0.000E+00	0.000E+00
2100 - 2200	1.861E-01	9.377E-04	2.942E-04	2.942E-04	9.304E-02	4.688E-04	1.471E-04	1.471E-04	4.501E-01	2.265E-03	0.000E+00	0.000E+00	9.001E-01	4.529E-03	0.000E+00	0.000E+00	2.500E-04	1.258E-06	0.000E+00	0.000E+00
2200 - 2300	1.241E-01	6.251E-04	1.962E-04	1.962E-04	6.203E-02	3.126E-04	9.808E-05	9.808E-05	3.000E-01	1.510E-03	0.000E+00	0.000E+00	6.001E-01	3.020E-03	0.000E+00	0.000E+00	1.667E-04	8.388E-07	0.000E+00	0.000E+00
2300 - 2400	6.203E-02	3.126E-04	9.808E-05	9.808E-05	3.101E-02	1.563E-04	4.904E-05	4.904E-05	1.500E-01	7.549E-04	0.000E+00	0.000E+00	3.000E-01	1.510E-03	0.000E+00	0.000E+00	8.335E-05	4.194E-07	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Lok Ma Chau Station PTI (PLB)

Running Emission

Average Travelling Distance within PTI =	100	m
Average Travelling Speed =	10	km/h

Hour	PLB								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within PTI (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	3.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	2.241E-01	6.111E-02	1.611E-02	1.482E-02
0700 - 0800	7.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	5.229E-01	1.426E-01	3.759E-02	3.458E-02
0800 - 0900	8.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	5.976E-01	1.630E-01	4.296E-02	3.952E-02
0900 - 1000	4.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	2.988E-01	8.148E-02	2.148E-02	1.976E-02
1000 - 1100	3.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	2.241E-01	6.111E-02	1.611E-02	1.482E-02
1100 - 1200	3.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	2.241E-01	6.111E-02	1.611E-02	1.482E-02
1200 - 1300	3.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	2.241E-01	6.111E-02	1.611E-02	1.482E-02
1300 - 1400	3.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	2.241E-01	6.111E-02	1.611E-02	1.482E-02
1400 - 1500	3.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	2.241E-01	6.111E-02	1.611E-02	1.482E-02
1500 - 1600	4.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	2.988E-01	8.148E-02	2.148E-02	1.976E-02
1600 - 1700	4.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	2.988E-01	8.148E-02	2.148E-02	1.976E-02
1700 - 1800	5.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	3.735E-01	1.018E-01	2.685E-02	2.470E-02
1800 - 1900	8.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	5.976E-01	1.630E-01	4.296E-02	3.952E-02
1900 - 2000	5.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	3.735E-01	1.018E-01	2.685E-02	2.470E-02
2000 - 2100	3.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	2.241E-01	6.111E-02	1.611E-02	1.482E-02
2100 - 2200	3.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	2.241E-01	6.111E-02	1.611E-02	1.482E-02
2200 - 2300	2.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	1.494E-01	4.074E-02	1.074E-02	9.880E-03
2300 - 2400	1.00	7.470E-01	2.037E-01	5.370E-02	4.940E-02	7.470E-02	2.037E-02	5.370E-03	4.940E-03

Idling Emission

No. of PLB (Diesel) to No. of PLB (LPG) Ratio [1] =	8.91	
Idling Time for Non-terminating PLBs =	0.5	min

Hour	PLB (Diesel)									PLB (LPG)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.071E-02	8.051E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.075E-01	1.549E-03	4.861E-04	4.861E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of PLB (Diesel) to PLB (LPG) was extracted from Year 2034 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Lok Ma Chau Station PTI (PLB)

Total Hourly Emission

Hour	Emission Within PTI							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	9.903E-01	1.149E-01	1.874E-02	1.745E-02	2.751E-04	3.191E-05	5.206E-06	4.848E-06
0700 - 0800	2.311E+00	2.681E-01	4.373E-02	4.072E-02	6.419E-04	7.446E-05	1.215E-05	1.131E-05
0800 - 0900	2.641E+00	3.064E-01	4.998E-02	4.654E-02	7.336E-04	8.510E-05	1.388E-05	1.293E-05
0900 - 1000	1.320E+00	1.532E-01	2.499E-02	2.327E-02	3.668E-04	4.255E-05	6.941E-06	6.464E-06
1000 - 1100	9.903E-01	1.149E-01	1.874E-02	1.745E-02	2.751E-04	3.191E-05	5.206E-06	4.848E-06
1100 - 1200	9.903E-01	1.149E-01	1.874E-02	1.745E-02	2.751E-04	3.191E-05	5.206E-06	4.848E-06
1200 - 1300	9.903E-01	1.149E-01	1.874E-02	1.745E-02	2.751E-04	3.191E-05	5.206E-06	4.848E-06
1300 - 1400	9.903E-01	1.149E-01	1.874E-02	1.745E-02	2.751E-04	3.191E-05	5.206E-06	4.848E-06
1400 - 1500	9.903E-01	1.149E-01	1.874E-02	1.745E-02	2.751E-04	3.191E-05	5.206E-06	4.848E-06
1500 - 1600	1.320E+00	1.532E-01	2.499E-02	2.327E-02	3.668E-04	4.255E-05	6.941E-06	6.464E-06
1600 - 1700	1.320E+00	1.532E-01	2.499E-02	2.327E-02	3.668E-04	4.255E-05	6.941E-06	6.464E-06
1700 - 1800	1.651E+00	1.915E-01	3.124E-02	2.909E-02	4.585E-04	5.319E-05	8.677E-06	8.080E-06
1800 - 1900	2.641E+00	3.064E-01	4.998E-02	4.654E-02	7.336E-04	8.510E-05	1.388E-05	1.293E-05
1900 - 2000	1.651E+00	1.915E-01	3.124E-02	2.909E-02	4.585E-04	5.319E-05	8.677E-06	8.080E-06
2000 - 2100	9.903E-01	1.149E-01	1.874E-02	1.745E-02	2.751E-04	3.191E-05	5.206E-06	4.848E-06
2100 - 2200	9.903E-01	1.149E-01	1.874E-02	1.745E-02	2.751E-04	3.191E-05	5.206E-06	4.848E-06
2200 - 2300	6.602E-01	7.659E-02	1.249E-02	1.163E-02	1.834E-04	2.128E-05	3.471E-06	3.232E-06
2300 - 2400	3.301E-01	3.830E-02	6.247E-03	5.817E-03	9.170E-05	1.064E-05	1.735E-06	1.616E-06

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Lok Ma Chau Loop PTI(FBDD_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	3.786E-01	6.814E-01	9.086E-01	1.287E+00	1.590E+00	2.120E+00	3.105E+00	3.862E+00	5.679E+00	7.420E+00	8.329E+00	9.843E+00	1.083E+01	1.136E+01	1.166E+01	1.196E+01	1.212E+01	1.212E+01
NO_2	8.140E-02	1.465E-01	1.953E-01	2.767E-01	3.418E-01	4.557E-01	6.673E-01	8.300E-01	1.221E+00	1.595E+00	1.790E+00	2.116E+00	2.327E+00	2.441E+00	2.506E+00	2.572E+00	2.604E+00	2.604E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	No. of Cold Starts of FBDD																	
Sitting Time (min)	5	10	20	30	40	50	60	120	180	240	300	360	420	480	540	600	660	720
0000 - 0100	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	NO_2	RSP	FSP
1.817E+00	3.906E-01	0.000E+00	0.000E+00
9.086E-01	1.953E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.817E+00	3.906E-01	0.000E+00	0.000E+00
9.086E+00	1.953E+00	0.000E+00	0.000E+00
2.635E+01	5.664E+00	0.000E+00	0.000E+00
2.726E+01	5.859E+00	0.000E+00	0.000E+00
1.454E+01	3.125E+00	0.000E+00	0.000E+00
1.090E+01	2.344E+00	0.000E+00	0.000E+00
9.086E+00	1.953E+00	0.000E+00	0.000E+00
9.995E+00	2.148E+00	0.000E+00	0.000E+00
9.086E+00	1.953E+00	0.000E+00	0.000E+00
9.086E+00	1.953E+00	0.000E+00	0.000E+00
1.363E+01	2.930E+00	0.000E+00	0.000E+00
1.545E+01	3.320E+00	0.000E+00	0.000E+00
1.908E+01	4.101E+00	0.000E+00	0.000E+00
2.817E+01	6.054E+00	0.000E+00	0.000E+00
1.726E+01	3.711E+00	0.000E+00	0.000E+00
1.090E+01	2.344E+00	0.000E+00	0.000E+00
9.086E+00	1.953E+00	0.000E+00	0.000E+00
6.360E+00	1.367E+00	0.000E+00	0.000E+00
4.543E+00	9.765E-01	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the PTI and operators' published schedules, while sitting time were obtained based on on-site observations at PTI.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Lok Ma Chau Loop PTI(FBDD_Diesel)

Cold Idling Emission

Idling Time for Terminating Buses =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	FBDD (Diesel)									FBDD (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.355E-01	6.407E-02	3.006E-03	3.006E-03
0100 - 0200	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.677E-01	3.204E-02	1.503E-03	1.503E-03
0200 - 0300	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.355E-01	6.407E-02	3.006E-03	3.006E-03
0600 - 0700	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	10.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.677E+00	3.204E-01	1.503E-02	1.503E-02
0700 - 0800	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	29.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	4.864E+00	9.291E-01	4.358E-02	4.358E-02
0800 - 0900	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	30.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	5.032E+00	9.611E-01	4.509E-02	4.509E-02
0900 - 1000	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	16.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	2.684E+00	5.126E-01	2.405E-02	2.405E-02
1000 - 1100	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	12.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	2.013E+00	3.844E-01	1.803E-02	1.803E-02
1100 - 1200	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	10.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.677E+00	3.204E-01	1.503E-02	1.503E-02
1200 - 1300	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	11.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.845E+00	3.524E-01	1.653E-02	1.653E-02
1300 - 1400	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	10.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.677E+00	3.204E-01	1.503E-02	1.503E-02
1400 - 1500	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	10.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.677E+00	3.204E-01	1.503E-02	1.503E-02
1500 - 1600	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	15.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	2.516E+00	4.805E-01	2.254E-02	2.254E-02
1600 - 1700	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	17.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	2.851E+00	5.446E-01	2.555E-02	2.555E-02
1700 - 1800	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	21.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.522E+00	6.728E-01	3.156E-02	3.156E-02
1800 - 1900	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	31.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	5.200E+00	9.931E-01	4.659E-02	4.659E-02
1900 - 2000	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	19.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	3.187E+00	6.087E-01	2.855E-02	2.855E-02
2000 - 2100	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	12.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	2.013E+00	3.844E-01	1.803E-02	1.803E-02
2100 - 2200	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	10.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.677E+00	3.204E-01	1.503E-02	1.503E-02
2200 - 2300	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.174E+00	2.243E-01	1.052E-02	1.052E-02
2300 - 2400	0.00	2.519E+00	4.812E-01	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	8.387E-01	1.602E-01	7.514E-03	7.514E-03

Average Distance from Starting Place to PTI Egress =	100	m
Average Spread Distance outside PTI =	600	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within PTI (g)				Adjusted Starting Emission Outside PTI (g)				Starting Emission Rate Outside PTI (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	3.355E-01	6.407E-02	3.006E-03	3.006E-03	1.677E-01	3.204E-02	1.503E-03	1.503E-03	2.356E-01	5.122E-02	0.000E+00	0.000E+00	1.414E+00	3.073E-01	0.000E+00	0.000E+00	3.927E-04	8.537E-05	0.000E+00	0.000E+00
0100 - 0200	1.677E-01	3.204E-02	1.503E-03	1.503E-03	8.387E-02	1.602E-02	7.514E-04	7.514E-04	1.178E-01	2.561E-02	0.000E+00	0.000E+00	7.069E-01	1.537E-01	0.000E+00	0.000E+00	1.964E-04	4.269E-05	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	3.355E-01	6.407E-02	3.006E-03	3.006E-03	1.677E-01	3.204E-02	1.503E-03	1.503E-03	2.356E-01	5.122E-02	0.000E+00	0.000E+00	1.414E+00	3.073E-01	0.000E+00	0.000E+00	3.927E-04	8.537E-05	0.000E+00	0.000E+00
0600 - 0700	1.677E+00	3.204E-01	1.503E-02	1.503E-02	8.387E-01	1.602E-01	7.514E-03	7.514E-03	1.178E+00	2.561E-01	0.000E+00	0.000E+00	7.069E+00	1.537E+00	0.000E+00	0.000E+00	1.964E-03	4.269E-04	0.000E+00	0.000E+00
0700 - 0800	4.864E+00	9.291E-01	4.358E-02	4.358E-02	2.432E+00	4.645E-01	2.179E-02	2.179E-02	3.417E+00	7.427E-01	0.000E+00	0.000E+00	2.050E+01	4.456E+00	0.000E+00	0.000E+00	5.695E-03	1.238E-03	0.000E+00	0.000E+00
0800 - 0900	5.032E+00	9.611E-01	4.509E-02	4.509E-02	2.516E+00	4.805E-01	2.254E-02	2.254E-02	3.535E+00	7.684E-01	0.000E+00	0.000E+00	2.121E+01	4.610E+00	0.000E+00	0.000E+00	5.891E-03	1.281E-03	0.000E+00	0.000E+00
0900 - 1000	2.684E+00	5.126E-01	2.405E-02	2.405E-02	1.342E+00	2.563E-01	1.202E-02	1.202E-02	1.885E+00	4.098E-01	0.000E+00	0.000E+00	1.131E+01	2.459E+00	0.000E+00	0.000E+00	3.142E-03	6.830E-04	0.000E+00	0.000E+00
1000 - 1100	2.013E+00	3.844E-01	1.803E-02	1.803E-02	1.006E+00	1.922E-01	9.017E-03	9.017E-03	1.414E+00	3.073E-01	0.000E+00	0.000E+00	8.483E+00	1.844E+00	0.000E+00	0.000E+00	2.356E-03	5.122E-04	0.000E+00	0.000E+00
1100 - 1200	1.677E+00	3.204E-01	1.503E-02	1.503E-02	8.387E-01	1.602E-01	7.514E-03	7.514E-03	1.178E+00	2.561E-01	0.000E+00	0.000E+00	7.069E+00	1.537E+00	0.000E+00	0.000E+00	1.964E-03	4.269E-04	0.000E+00	0.000E+00
1200 - 1300	1.845E+00	3.524E-01	1.653E-02	1.653E-02	9.225E-01	1.762E-01	8.266E-03	8.266E-03	1.296E+00	2.817E-01	0.000E+00	0.000E+00	7.776E+00	1.690E+00	0.000E+00	0.000E+00	2.160E-03	4.695E-04	0.000E+00	0.000E+00
1300 - 1400	1.677E+00	3.204E-01	1.503E-02	1.503E-02	8.387E-01	1.602E-01	7.514E-03	7.514E-03	1.178E+00	2.561E-01	0.000E+00	0.000E+00	7.069E+00	1.537E+00	0.000E+00	0.000E+00	1.964E-03	4.269E-04	0.000E+00	0.000E+00
1400 - 1500	1.677E+00	3.204E-01	1.503E-02	1.503E-02	8.387E-01	1.602E-01	7.514E-03	7.514E-03	1.178E+00	2.561E-01	0.000E+00	0.000E+00	7.069E+00	1.537E+00	0.000E+00	0.000E+00	1.964E-03	4.269E-04	0.000E+00	0.000E+00
1500 - 1600	2.516E+00	4.805E-01	2.254E-02	2.254E-02	1.258E+00	2.403E-01	1.127E-02	1.127E-02	1.767E+00	3.842E-01	0.000E+00	0.000E+00	1.060E+01	2.305E+00	0.000E+00	0.000E+00	2.945E-03	6.403E-04	0.000E+00	0.000E+00
1600 - 1700	2.851E+00	5.446E-01	2.555E-02	2.555E-02	1.426E+00	2.723E-01	1.277E-02	1.277E-02	2.003E+00	4.354E-01	0.000E+00	0.000E+00	1.202E+01	2.612E+00	0.000E+00	0.000E+00	3.338E-03	7.257E-04	0.000E+00	0.000E+00
1700 - 1800	3.522E+00	6.728E-01	3.156E-02	3.156E-02	1.761E+00	3.364E-01	1.578E-02	1.578E-02	2.474E+00	5.378E-01	0.000E+00	0.000E+00	1.485E+01	3.227E+00	0.000E+00	0.000E+00	4.124E-03	8.964E-04	0.000E+00	0.000E+00
1800 - 1900	5.200E+00	9.931E-01	4.659E-02	4.659E-02	2.600E+00	4.966E-01	2.329E-02	2.329E-02	3.652E+00	7.940E-01	0.000E+00	0.000E+00	2.191E+01	4.764E+00	0.000E+00	0.000E+00	6.087E-03	1.323E-03	0.000E+00	0.000E+00
1900 - 2000	3.187E+00	6.087E-01	2.855E-02	2.855E-02	1.593E+00	3.043E-01	1.428E-02	1.428E-02	2.239E+00	4.866E-01	0.000E+00	0.000E+00	1.343E+01	2.920E+00	0.000E+00	0.000E+00	3.731E-03	8.110E-04	0.000E+00	0.000E+00
2000 - 2100	2.013E+00	3.844E-01	1.803E-02	1.803E-02	1.006E+00	1.922E-01	9.017E-03	9.017E-03	1.414E+00	3.073E-01	0.000E+00	0.000E+00	8.483E+00	1.844E+00	0.000E+00	0.000E+00	2.356E-03	5.122E-04	0.000E+00	0.000E+00
2100 - 2200	1.677E+00	3.204E-01	1.503E-02	1.503E-02	8.387E-01	1.602E-01	7.514E-03	7.514E-03	1.178E+00	2.561E-01	0.000E+00	0.000E+00	7.069E+00	1.537E+00	0.000E+00	0.000E+00	1.964E-03	4.269E-04	0.000E+00	0.000E+00
2200 - 2300	1.174E+00	2.243E-01	1.052E-02	1.052E-02	5.871E-01	1.121E-01	5.260E-03	5.260E-03	8.247E-01	1.793E-01	0.000E+00	0.000E+00	4.948E+00	1.076E+00	0.000E+00	0.000E+00	1.375E-03	2.988E-04	0.000E+00	0.000E+00
2300 - 2400	8.387E-01	1.602E-01	7.514E-03	7.514E-03	4.193E-01	8.009E-02	3.757E-03	3.757E-03	5.891E-01	1.281E-01	0.000E+00	0.000E+00	3.535E+00	7.684E-01	0.000E+00	0.000E+00	9.818E-04	2.134E-04	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Lok Ma Chau Loop PTI (FBDD)

Running Emission

Average Travelling Distance within PTI =	200	m
Average Travelling Speed =	10	km/h

Hour	Frequency	FBDD							
		Running Emission Factor (g/km·vehicle)				Running Emission Within PTI (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	2	5.124E+00	9.787E-01	1.525E-01	1.403E-01	2.050E+00	3.915E-01	6.100E-02	5.612E-02
0100 - 0200	1	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.025E+00	1.957E-01	3.050E-02	2.806E-02
0200 - 0300	0	5.124E+00	9.787E-01	1.525E-01	1.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0	5.124E+00	9.787E-01	1.525E-01	1.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0	5.124E+00	9.787E-01	1.525E-01	1.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	2	5.124E+00	9.787E-01	1.525E-01	1.403E-01	2.050E+00	3.915E-01	6.100E-02	5.612E-02
0600 - 0700	10	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.025E+01	1.957E+00	3.050E-01	2.806E-01
0700 - 0800	29	5.124E+00	9.787E-01	1.525E-01	1.403E-01	2.972E+01	5.676E+00	8.845E-01	8.137E-01
0800 - 0900	30	5.124E+00	9.787E-01	1.525E-01	1.403E-01	3.074E+01	5.872E+00	9.150E-01	8.418E-01
0900 - 1000	16	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.640E+01	3.132E+00	4.880E-01	4.490E-01
1000 - 1100	12	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.230E+01	2.349E+00	3.660E-01	3.367E-01
1100 - 1200	10	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.025E+01	1.957E+00	3.050E-01	2.806E-01
1200 - 1300	11	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.127E+01	2.153E+00	3.355E-01	3.087E-01
1300 - 1400	10	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.025E+01	1.957E+00	3.050E-01	2.806E-01
1400 - 1500	10	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.025E+01	1.957E+00	3.050E-01	2.806E-01
1500 - 1600	15	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.537E+01	2.936E+00	4.575E-01	4.209E-01
1600 - 1700	17	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.742E+01	3.328E+00	5.185E-01	4.770E-01
1700 - 1800	21	5.124E+00	9.787E-01	1.525E-01	1.403E-01	2.152E+01	4.111E+00	6.405E-01	5.893E-01
1800 - 1900	31	5.124E+00	9.787E-01	1.525E-01	1.403E-01	3.177E+01	6.068E+00	9.455E-01	8.699E-01
1900 - 2000	19	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.947E+01	3.719E+00	5.795E-01	5.331E-01
2000 - 2100	12	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.230E+01	2.349E+00	3.660E-01	3.367E-01
2100 - 2200	10	5.124E+00	9.787E-01	1.525E-01	1.403E-01	1.025E+01	1.957E+00	3.050E-01	2.806E-01
2200 - 2300	7	5.124E+00	9.787E-01	1.525E-01	1.403E-01	7.174E+00	1.370E+00	2.135E-01	1.964E-01
2300 - 2400	5	5.124E+00	9.787E-01	1.525E-01	1.403E-01	5.124E+00	9.787E-01	1.525E-01	1.403E-01

Idling Emission

Idling Time for Non-terminating Buses =	1	min

Hour	Frequency	FBDD							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	8.387E-02	1.602E-02	7.514E-04	7.514E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Lok Ma Chau Loop PTI (FBDD)

Total Hourly Emission

Hour	Emission Within PTI							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	2.621E+00	5.068E-01	6.401E-02	5.913E-02	7.280E-04	1.408E-04	1.778E-05	1.642E-05
0100 - 0200	1.310E+00	2.534E-01	3.200E-02	2.956E-02	3.640E-04	7.039E-05	8.890E-06	8.212E-06
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	2.621E+00	5.068E-01	6.401E-02	5.913E-02	7.280E-04	1.408E-04	1.778E-05	1.642E-05
0600 - 0700	1.310E+01	2.534E+00	3.200E-01	2.956E-01	3.640E-03	7.039E-04	8.890E-05	8.212E-05
0700 - 0800	3.800E+01	7.348E+00	9.281E-01	8.573E-01	1.056E-02	2.041E-03	2.578E-04	2.381E-04
0800 - 0900	3.931E+01	7.602E+00	9.601E-01	8.869E-01	1.092E-02	2.112E-03	2.667E-04	2.464E-04
0900 - 1000	2.097E+01	4.054E+00	5.120E-01	4.730E-01	5.824E-03	1.126E-03	1.422E-04	1.314E-04
1000 - 1100	1.572E+01	3.041E+00	3.840E-01	3.548E-01	4.368E-03	8.446E-04	1.067E-04	9.854E-05
1100 - 1200	1.310E+01	2.534E+00	3.200E-01	2.956E-01	3.640E-03	7.039E-04	8.890E-05	8.212E-05
1200 - 1300	1.441E+01	2.787E+00	3.520E-01	3.252E-01	4.004E-03	7.742E-04	9.779E-05	9.033E-05
1300 - 1400	1.310E+01	2.534E+00	3.200E-01	2.956E-01	3.640E-03	7.039E-04	8.890E-05	8.212E-05
1400 - 1500	1.310E+01	2.534E+00	3.200E-01	2.956E-01	3.640E-03	7.039E-04	8.890E-05	8.212E-05
1500 - 1600	1.966E+01	3.801E+00	4.800E-01	4.434E-01	5.460E-03	1.056E-03	1.333E-04	1.232E-04
1600 - 1700	2.228E+01	4.308E+00	5.440E-01	5.026E-01	6.188E-03	1.197E-03	1.511E-04	1.396E-04
1700 - 1800	2.752E+01	5.321E+00	6.721E-01	6.208E-01	7.644E-03	1.478E-03	1.867E-04	1.724E-04
1800 - 1900	4.062E+01	7.855E+00	9.921E-01	9.164E-01	1.128E-02	2.182E-03	2.756E-04	2.546E-04
1900 - 2000	2.490E+01	4.814E+00	6.081E-01	5.617E-01	6.916E-03	1.337E-03	1.689E-04	1.560E-04
2000 - 2100	1.572E+01	3.041E+00	3.840E-01	3.548E-01	4.368E-03	8.446E-04	1.067E-04	9.854E-05
2100 - 2200	1.310E+01	2.534E+00	3.200E-01	2.956E-01	3.640E-03	7.039E-04	8.890E-05	8.212E-05
2200 - 2300	9.173E+00	1.774E+00	2.240E-01	2.069E-01	2.548E-03	4.927E-04	6.223E-05	5.748E-05
2300 - 2400	6.552E+00	1.267E+00	1.600E-01	1.478E-01	1.820E-03	3.519E-04	4.445E-05	4.106E-05

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (PC_Diesel)

Starting Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio =		0.02

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of PC_Diesel**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (PC_Diesel)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	PC (Diesel)									PC (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.01	4.020E-02	5.885E-03	9.153E-04	9.153E-04	1.197E-03	1.752E-04	2.725E-05	2.725E-05
1500 - 1600	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.01	4.020E-02	5.885E-03	9.153E-04	9.153E-04	1.197E-03	1.752E-04	2.725E-05	2.725E-05
1700 - 1800	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.01	4.020E-02	5.885E-03	9.153E-04	9.153E-04	1.197E-03	1.752E-04	2.725E-05	2.725E-05	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.01	4.020E-02	5.885E-03	9.153E-04	9.153E-04	1.197E-03	1.752E-04	2.725E-05	2.725E-05
2000 - 2100	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.197E-03	1.752E-04	2.725E-05	2.725E-05	5.983E-04	8.759E-05	1.362E-05	1.362E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.197E-03	1.752E-04	2.725E-05	2.725E-05	5.983E-04	8.759E-05	1.362E-05	1.362E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.197E-03	1.752E-04	2.725E-05	2.725E-05	5.983E-04	8.759E-05	1.362E-05	1.362E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	1.197E-03	1.752E-04	2.725E-05	2.725E-05	5.983E-04	8.759E-05	1.362E-05	1.362E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (PC_Petrol)

Starting Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio =		0.02

	Starting Emission Factor (g/trip)																	
NO	5.381E-02	5.471E-02	5.651E-02	5.821E-02	5.992E-02	6.152E-02	6.302E-02	7.012E-02	7.962E-02	7.892E-02	7.792E-02	7.632E-02	7.432E-02	7.191E-02	6.901E-02	6.561E-02	6.181E-02	5.761E-02
NO_2	2.801E-03	2.901E-03	3.001E-03	3.101E-03	3.201E-03	3.201E-03	3.301E-03	3.701E-03	4.201E-03	4.201E-03	4.101E-03	4.001E-03	3.901E-03	3.801E-03	3.601E-03	3.501E-03	3.300E-03	3.000E-03
RSP	4.003E-04	8.003E-04	1.500E-03	2.300E-03	3.000E-03	3.600E-03	4.300E-03	7.100E-03	7.900E-03	8.700E-03	9.300E-03	9.901E-03	1.040E-02	1.080E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.003E-04	7.002E-04	1.400E-03	2.100E-03	2.700E-03	3.400E-03	3.900E-03	6.500E-03	7.300E-03	8.000E-03	8.700E-03	9.200E-03	9.600E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	**No. of Cold Starts of PC_Petrol**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.301E-02	2.759E-03	3.944E-04	3.943E-04
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.390E-02	2.857E-03	7.884E-04	6.898E-04
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	7.321E-02	3.843E-03	1.025E-02	9.458E-03
1900 - 2000	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.567E-02	2.956E-03	1.478E-03	1.379E-03
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (PC_Petrol)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	PC (Petrol)									PC (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.99	1.306E-03	6.826E-05	1.223E-05	1.223E-05	2.573E-03	1.345E-04	2.409E-05	2.409E-05
1500 - 1600	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.99	1.306E-03	6.826E-05	1.223E-05	1.223E-05	2.573E-03	1.345E-04	2.409E-05	2.409E-05
1700 - 1800	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.99	1.306E-03	6.826E-05	1.223E-05	1.223E-05	2.573E-03	1.345E-04	2.409E-05	2.409E-05	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.99	1.306E-03	6.826E-05	1.223E-05	1.223E-05	2.573E-03	1.345E-04	2.409E-05	2.409E-05
2000 - 2100	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	2.573E-03	1.345E-04	2.409E-05	2.409E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.301E-02	2.759E-03	3.944E-04	3.943E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.573E-03	1.345E-04	2.409E-05	2.409E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.390E-02	2.857E-03	7.884E-04	6.898E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.573E-03	1.345E-04	2.409E-05	2.409E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.321E-02	3.843E-03	1.025E-02	9.458E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	2.573E-03	1.345E-04	2.409E-05	2.409E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.567E-02	2.956E-03	1.478E-03	1.379E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (PC)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	PC								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	8.840E-03	4.800E-04	1.920E-03	1.780E-03
1500 - 1600	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	8.840E-03	4.800E-04	1.920E-03	1.780E-03
1700 - 1800	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	8.840E-03	4.800E-04	1.920E-03	1.780E-03
1900 - 2000	1.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	8.840E-03	4.800E-04	1.920E-03	1.780E-03
2000 - 2100	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio [1] =	0.02	
Idling Time for Non-terminating PCs =	0.5	min

Hour	PC (Diesel)									PC (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of PC (Diesel) toPC (Petrol) was extracted from Year 2034 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (PC)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	6.562E-02	3.549E-03	2.366E-03	2.226E-03	1.823E-05	9.857E-07	6.571E-07	6.182E-07
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	6.651E-02	3.647E-03	2.760E-03	2.521E-03	1.847E-05	1.013E-06	7.666E-07	7.003E-07
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	8.582E-02	4.632E-03	1.222E-02	1.129E-02	2.384E-05	1.287E-06	3.394E-06	3.136E-06
1900 - 2000	6.828E-02	3.746E-03	3.449E-03	3.211E-03	1.897E-05	1.040E-06	9.581E-07	8.919E-07
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (Taxi_LPG)

Starting Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio =		53996.70

	Starting Emission Factor (g/trip)																	
NO	1.006E+00	1.023E+00	1.055E+00	1.087E+00	1.117E+00	1.147E+00	1.175E+00	1.308E+00	1.485E+00	1.473E+00	1.453E+00	1.424E+00	1.386E+00	1.340E+00	1.286E+00	1.223E+00	1.152E+00	1.073E+00
NO_2	2.820E-02	2.870E-02	2.960E-02	3.050E-02	3.140E-02	3.220E-02	3.300E-02	3.670E-02	4.170E-02	4.130E-02	4.080E-02	3.990E-02	3.890E-02	3.760E-02	3.610E-02	3.430E-02	3.230E-02	3.010E-02
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of Taxi_LPG**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (Taxi_LPG)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (LPG)										Taxi (LPG)									
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	50.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (Taxi_Petrol)

Starting Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio =		53996.70

	Starting Emission Factor (g/trip)																	
NO	7.790E-02	7.910E-02	8.170E-02	8.420E-02	8.640E-02	8.870E-02	9.090E-02	1.013E-01	1.149E-01	1.140E-01	1.125E-01	1.102E-01	1.073E-01	1.037E-01	9.960E-02	9.470E-02	8.920E-02	8.300E-02
NO_2	4.100E-03	4.200E-03	4.300E-03	4.400E-03	4.600E-03	4.700E-03	4.800E-03	5.300E-03	6.100E-03	6.000E-03	5.900E-03	5.800E-03	5.600E-03	5.500E-03	5.200E-03	5.000E-03	4.700E-03	4.400E-03
RSP	4.000E-04	8.000E-04	1.500E-03	2.300E-03	3.000E-03	3.600E-03	4.200E-03	7.000E-03	7.900E-03	8.700E-03	9.300E-03	9.900E-03	1.040E-02	1.070E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.000E-04	7.000E-04	1.400E-03	2.100E-03	2.700E-03	3.400E-03	3.900E-03	6.500E-03	7.300E-03	8.000E-03	8.700E-03	9.200E-03	9.600E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	No. of Cold Starts of Taxi_Petrol																		Total Starting Emission (g)			
Sitting Time (min)	5	10	20	30	40	50	60	120	180	240	300	360	420	480	540	600	660	720	NO	NO_2	RSP	FSP
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (Taxi_Petrol)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (Petrol)									Taxi (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	50.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (Taxi)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	Taxi								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio [1] =	53996.70	
Idling Time for Non-terminating Taxi =	0.5	min

Hour	Taxi (LPG)									Taxi (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Year 2034

Mai Po Warehouse (米埔物流倉) (Taxi)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (LGV3_Diesel)

Starting Emission

No. of LGV3 (Diesel) to No. of LGV3 (Petrol) Ratio =		29.60

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of LGV3_Diesel**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (LGV3_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV3 (Diesel)									LGV3 (Diesel)									
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	
0000 - 0100	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0100 - 0200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0200 - 0300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0300 - 0400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0400 - 0500	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0500 - 0600	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0600 - 0700	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0700 - 0800	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0800 - 0900	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.97	2.703E-02	1.598E-03	4.333E-04	4.333E-04	5.229E-02	3.091E-03	8.383E-04	8.383E-04	
0900 - 1000	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
1000 - 1100	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
1100 - 1200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.97	2.703E-02	1.598E-03	4.333E-04	4.333E-04	5.229E-02	3.091E-03	8.383E-04	8.383E-04	
1200 - 1300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
1300 - 1400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
1400 - 1500	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
1500 - 1600	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
1600 - 1700	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.97	2.703E-02	1.598E-03	4.333E-04	4.333E-04	5.229E-02	3.091E-03	8.383E-04	8.383E-04	
1700 - 1800	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
1800 - 1900	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
1900 - 2000	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
2000 - 2100	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
2100 - 2200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
2200 - 2300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
2300 - 2400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	5.229E-02	3.091E-03	8.383E-04	8.383E-04	2.615E-02	1.545E-03	4.192E-04	4.192E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	5.229E-02	3.091E-03	8.383E-04	8.383E-04	2.615E-02	1.545E-03	4.192E-04	4.192E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	5.229E-02	3.091E-03	8.383E-04	8.383E-04	2.615E-02	1.545E-03	4.192E-04	4.192E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (LGV3_Petrol)

Starting Emission

No. of LGV3 (Diesel) to No. of LGV3 (Petrol) Ratio =		29.60

	Starting Emission Factor (g/trip)																	
NO	3.890E-02	4.360E-02	5.190E-02	5.870E-02	6.420E-02	6.830E-02	7.110E-02	7.720E-02	8.540E-02	8.480E-02	8.390E-02	8.270E-02	8.100E-02	7.900E-02	7.680E-02	7.420E-02	7.130E-02	6.790E-02
NO_2	2.100E-03	2.300E-03	2.700E-03	3.100E-03	3.400E-03	3.600E-03	3.700E-03	4.100E-03	4.500E-03	4.500E-03	4.400E-03	4.300E-03	4.300E-03	4.200E-03	4.000E-03	3.900E-03	3.700E-03	3.600E-03
RSP	1.000E-04	2.000E-04	4.000E-04	5.000E-04	7.000E-04	8.000E-04	9.000E-04	1.300E-03	1.400E-03	1.400E-03	1.500E-03	1.500E-03	1.600E-03	1.600E-03	1.700E-03	1.700E-03	1.800E-03	1.800E-03
FSP	1.000E-04	2.000E-04	3.000E-04	5.000E-04	6.000E-04	7.000E-04	8.000E-04	1.200E-03	1.300E-03	1.300E-03	1.400E-03	1.400E-03	1.500E-03	1.500E-03	1.600E-03	1.600E-03	1.600E-03	1.700E-03

Hour	**No. of Cold Starts of LGV3_Petrol**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.696E-03	8.824E-05	1.307E-05	9.804E-06
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.425E-03	7.517E-05	6.536E-06	6.536E-06
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.098E-03	1.111E-04	2.288E-05	1.961E-05
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (LGV3_Petrol)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	LGV3 (Petrol)									LGV3 (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	1.860E-03	9.791E-05	4.056E-06	4.056E-06	1.216E-04	6.400E-06	2.651E-07	2.651E-07
0900 - 1000	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	1.860E-03	9.791E-05	4.056E-06	4.056E-06	1.216E-04	6.400E-06	2.651E-07	2.651E-07
1200 - 1300	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	1.860E-03	9.791E-05	4.056E-06	4.056E-06	1.216E-04	6.400E-06	2.651E-07	2.651E-07
1700 - 1800	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.216E-04	6.400E-06	2.651E-07	2.651E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.696E-03	8.824E-05	1.307E-05	9.804E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.216E-04	6.400E-06	2.651E-07	2.651E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.425E-03	7.517E-05	6.536E-06	6.536E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.216E-04	6.400E-06	2.651E-07	2.651E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.098E-03	1.111E-04	2.288E-05	1.961E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (LGV3)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	LGV3								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	3.290E-01	1.944E-02	2.940E-03	2.700E-03
0900 - 1000	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	3.290E-01	1.944E-02	2.940E-03	2.700E-03
1200 - 1300	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	3.290E-01	1.944E-02	2.940E-03	2.700E-03
1500 - 1600	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	3.290E-01	1.944E-02	2.940E-03	2.700E-03
1700 - 1800	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of LGV3 (Diesel) to No. of LGV3 (Petrol) Ratio [1] =	29.60	
Idling Time for Non-terminating LGV3s =	0.5	min

Hour	LGV3 (Diesel)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.97	2.703E-02	1.598E-03	4.333E-04	4.333E-04	1.307E-02	7.727E-04	2.096E-04	2.096E-04
1500 - 1600	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	LGV3 (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	3.040E-05	1.600E-06	6.627E-08	6.627E-08
1500 - 1600	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of LGV3 (Diesel) to LGV3 (Petrol) was extracted from Year 2034 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (LGV3)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	3.831E-01	2.263E-02	3.792E-03	3.548E-03	1.064E-04	6.285E-06	1.053E-06	9.857E-07
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	3.829E-01	2.261E-02	3.785E-03	3.545E-03	1.063E-04	6.281E-06	1.051E-06	9.848E-07
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	3.421E-01	2.021E-02	3.150E-03	2.910E-03	9.503E-05	5.615E-06	8.749E-07	8.082E-07
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	3.835E-01	2.265E-02	3.801E-03	3.558E-03	1.065E-04	6.291E-06	1.056E-06	9.884E-07
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (LGV6_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	4.900E-02	8.810E-02	1.175E-01	1.665E-01	2.057E-01	2.742E-01	4.016E-01	4.995E-01	7.346E-01	9.599E-01	1.077E+00	1.273E+00	1.401E+00	1.469E+00	1.508E+00	1.548E+00	1.567E+00	1.567E+00
NO_2	1.900E-02	3.430E-02	4.570E-02	6.480E-02	8.000E-02	1.067E-01	1.562E-01	1.943E-01	2.857E-01	3.733E-01	4.190E-01	4.952E-01	5.447E-01	5.714E-01	5.866E-01	6.018E-01	6.094E-01	6.094E-01
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of LGV6**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.175E-01	4.570E-02	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.810E-02	3.430E-02	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.175E-01	4.570E-02	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.175E-01	4.570E-02	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (LGV6_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV6s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV6 (Diesel)									LGV6 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	5.208E-02	2.025E-02	4.269E-04	4.269E-04
1200 - 1300	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	5.208E-02	2.025E-02	4.269E-04	4.269E-04
1500 - 1600	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	5.208E-02	2.025E-02	4.269E-04	4.269E-04
1600 - 1700	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	5.208E-02	2.025E-02	4.269E-04	4.269E-04
1800 - 1900	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	5.208E-02	2.025E-02	4.269E-04	4.269E-04	2.604E-02	1.013E-02	2.134E-04	2.134E-04	1.307E-02	5.082E-03	0.000E+00	0.000E+00	7.840E-02	3.049E-02	0.000E+00	0.000E+00	2.178E-05	8.470E-06	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	5.208E-02	2.025E-02	4.269E-04	4.269E-04	2.604E-02	1.013E-02	2.134E-04	2.134E-04	8.866E-03	3.453E-03	0.000E+00	0.000E+00	5.320E-02	2.072E-02	0.000E+00	0.000E+00	1.478E-05	5.756E-06	0.000E+00	0.000E+00
1500 - 1600	5.208E-02	2.025E-02	4.269E-04	4.269E-04	2.604E-02	1.013E-02	2.134E-04	2.134E-04	1.307E-02	5.082E-03	0.000E+00	0.000E+00	7.840E-02	3.049E-02	0.000E+00	0.000E+00	2.178E-05	8.470E-06	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	5.208E-02	2.025E-02	4.269E-04	4.269E-04	2.604E-02	1.013E-02	2.134E-04	2.134E-04	1.307E-02	5.082E-03	0.000E+00	0.000E+00	7.840E-02	3.049E-02	0.000E+00	0.000E+00	2.178E-05	8.470E-06	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (LGV6)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	LGV6								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	3.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	4.364E-01	1.697E-01	1.254E-02	1.152E-02
1200 - 1300	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	2.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	2.910E-01	1.132E-01	8.360E-03	7.680E-03
1500 - 1600	2.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	2.910E-01	1.132E-01	8.360E-03	7.680E-03
1600 - 1700	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	1.455E-01	5.658E-02	4.180E-03	3.840E-03
1800 - 1900	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating LGV6s =	2	min

Hour	LGV6								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	2.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	1.042E-01	4.051E-02	8.538E-04	8.538E-04
1200 - 1300	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	5.208E-02	2.025E-02	4.269E-04	4.269E-04
1500 - 1600	1.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	5.208E-02	2.025E-02	4.269E-04	4.269E-04
1600 - 1700	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (LGV6)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	6.057E-01	2.356E-01	1.382E-02	1.280E-02	1.683E-04	6.544E-05	3.839E-06	3.556E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	4.040E-01	1.571E-01	9.214E-03	8.534E-03	1.122E-04	4.364E-05	2.559E-06	2.370E-06
1500 - 1600	4.082E-01	1.587E-01	9.214E-03	8.534E-03	1.134E-04	4.410E-05	2.559E-06	2.370E-06
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	2.106E-01	8.192E-02	4.607E-03	4.267E-03	5.851E-05	2.275E-05	1.280E-06	1.185E-06
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (HGV7_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.610E-02	1.550E-01	2.067E-01	2.928E-01	3.617E-01	4.823E-01	7.062E-01	8.785E-01	1.292E+00	1.688E+00	1.895E+00	2.239E+00	2.463E+00	2.584E+00	2.653E+00	2.722E+00	2.756E+00	2.756E+00
NO_2	4.230E-02	7.610E-02	1.015E-01	1.438E-01	1.776E-01	2.368E-01	3.468E-01	4.313E-01	6.343E-01	8.288E-01	9.303E-01	1.100E+00	1.209E+00	1.269E+00	1.303E+00	1.336E+00	1.353E+00	1.353E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	No. of Cold Starts of HGV7																	
Sitting Time (min)	5	10	20	30	40	50	60	120	180	240	300	360	420	480	540	600	660	720
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	1.00	2.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	NO_2	RSP	FSP
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.377E+00	1.167E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
4.823E-01	2.368E-01	0.000E+00	0.000E+00
3.152E+00	1.548E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.067E-01	1.015E-01	0.000E+00	0.000E+00
3.617E-01	1.776E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (HGV7_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV7s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV7 (Diesel)									HGV7 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	9.523E-01	4.637E-01	9.098E-04	9.098E-04	1.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	5.073E-02	2.471E-02	4.549E-04	4.549E-04
1000 - 1100	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	5.073E-02	2.471E-02	4.549E-04	4.549E-04
1500 - 1600	2.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	9.523E-01	4.637E-01	9.098E-04	9.098E-04	3.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	1.522E-01	7.412E-02	1.365E-03	1.365E-03
1600 - 1700	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	5.073E-02	2.471E-02	4.549E-04	4.549E-04
1800 - 1900	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	1.015E-01	4.941E-02	9.098E-04	9.098E-04
1900 - 2000	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.003E+00	4.885E-01	1.365E-03	1.365E-03	5.015E-01	2.442E-01	6.824E-04	6.824E-04	2.679E-01	1.318E-01	0.000E+00	0.000E+00	1.608E+00	7.910E-01	0.000E+00	0.000E+00	4.466E-04	2.197E-04	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	5.073E-02	2.471E-02	4.549E-04	4.549E-04	2.536E-02	1.235E-02	2.275E-04	2.275E-04	6.528E-02	3.206E-02	0.000E+00	0.000E+00	3.917E-01	1.924E-01	0.000E+00	0.000E+00	1.088E-04	5.344E-05	0.000E+00	0.000E+00
1500 - 1600	1.104E+00	5.379E-01	2.275E-03	2.275E-03	5.522E-01	2.689E-01	1.137E-03	1.137E-03	3.714E-01	1.827E-01	0.000E+00	0.000E+00	2.229E+00	1.096E+00	0.000E+00	0.000E+00	6.190E-04	3.045E-04	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	5.073E-02	2.471E-02	4.549E-04	4.549E-04	2.536E-02	1.235E-02	2.275E-04	2.275E-04	2.591E-02	1.274E-02	0.000E+00	0.000E+00	1.554E-01	7.641E-02	0.000E+00	0.000E+00	4.318E-05	2.123E-05	0.000E+00	0.000E+00
1800 - 1900	1.015E-01	4.941E-02	9.098E-04	9.098E-04	5.073E-02	2.471E-02	4.549E-04	4.549E-04	4.442E-02	2.184E-02	0.000E+00	0.000E+00	2.665E-01	1.311E-01	0.000E+00	0.000E+00	7.404E-05	3.640E-05	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (HGV7)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV7							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	3.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	6.554E-01	3.192E-01	2.364E-02	2.172E-02
1000 - 1100	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	2.185E-01	1.064E-01	7.880E-03	7.240E-03
1500 - 1600	5.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	1.092E+00	5.320E-01	3.940E-02	3.620E-02
1600 - 1700	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	2.185E-01	1.064E-01	7.880E-03	7.240E-03
1800 - 1900	2.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	4.370E-01	2.128E-01	1.576E-02	1.448E-02
1900 - 2000	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV7s =	2	min

Hour	Frequency	HGV7							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (HGV7)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.926E+00	9.395E-01	2.500E-02	2.308E-02	5.351E-04	2.610E-04	6.946E-06	6.412E-06
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	3.345E-01	1.632E-01	8.335E-03	7.695E-03	9.291E-05	4.532E-05	2.315E-06	2.137E-06
1500 - 1600	2.568E+00	1.253E+00	4.167E-02	3.847E-02	7.134E-04	3.479E-04	1.158E-05	1.069E-05
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	2.951E-01	1.438E-01	8.335E-03	7.695E-03	8.198E-05	3.996E-05	2.315E-06	2.137E-06
1800 - 1900	5.828E-01	2.841E-01	1.667E-02	1.539E-02	1.619E-04	7.890E-05	4.631E-06	4.275E-06
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (HGV8_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.630E-02	1.552E-01	2.070E-01	2.932E-01	3.622E-01	4.830E-01	7.072E-01	8.797E-01	1.294E+00	1.691E+00	1.898E+00	2.243E+00	2.467E+00	2.588E+00	2.657E+00	2.725E+00	2.760E+00	2.760E+00
NO_2	4.050E-02	7.300E-02	9.730E-02	1.379E-01	1.703E-01	2.271E-01	3.325E-01	4.136E-01	6.082E-01	7.947E-01	8.920E-01	1.054E+00	1.160E+00	1.216E+00	1.249E+00	1.281E+00	1.298E+00	1.298E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	No. of Cold Starts of HGV8																	
Sitting Time (min)	5	10	20	30	40	50	60	120	180	240	300	360	420	480	540	600	660	720
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	Total Starting Emission (g)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	3.622E-01	1.703E-01	0.000E+00	0.000E+00
0900 - 1000	1.294E+00	6.082E-01	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	2.070E-01	9.730E-02	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (HGV8_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV8s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV8 (Diesel)									HGV8 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	5.551E-02	2.647E-02	4.889E-04	4.889E-04
0900 - 1000	1.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	3.230E-01	1.540E-01	4.889E-04	4.889E-04	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	5.551E-02	2.647E-02	4.889E-04	4.889E-04
1200 - 1300	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	5.551E-02	2.647E-02	4.889E-04	4.889E-04	2.776E-02	1.323E-02	2.444E-04	2.444E-04	4.778E-02	2.244E-02	0.000E+00	0.000E+00	2.867E-01	1.346E-01	0.000E+00	0.000E+00	7.963E-05	3.740E-05	0.000E+00	0.000E+00
0900 - 1000	3.230E-01	1.540E-01	4.889E-04	4.889E-04	1.615E-01	7.700E-02	2.444E-04	2.444E-04	1.617E-01	7.589E-02	0.000E+00	0.000E+00	9.705E-01	4.553E-01	0.000E+00	0.000E+00	2.696E-04	1.265E-04	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	5.551E-02	2.647E-02	4.889E-04	4.889E-04	2.776E-02	1.323E-02	2.444E-04	2.444E-04	2.561E-02	1.201E-02	0.000E+00	0.000E+00	1.536E-01	7.206E-02	0.000E+00	0.000E+00	4.268E-05	2.002E-05	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (HGV8)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV8							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	5.294E-01	2.524E-01	1.390E-02	1.280E-02
0900 - 1000	1.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	5.294E-01	2.524E-01	1.390E-02	1.280E-02
1000 - 1100	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	5.294E-01	2.524E-01	1.390E-02	1.280E-02
1200 - 1300	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV8s =	2	min

Hour	Frequency	HGV8							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (HGV8)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	6.327E-01	3.013E-01	1.439E-02	1.329E-02	1.757E-04	8.370E-05	3.997E-06	3.691E-06
0900 - 1000	1.014E+00	4.823E-01	1.439E-02	1.329E-02	2.817E-04	1.340E-04	3.997E-06	3.691E-06
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	6.105E-01	2.909E-01	1.439E-02	1.329E-02	1.696E-04	8.080E-05	3.997E-06	3.691E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (HGV9_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.760E-02	1.576E-01	2.101E-01	2.977E-01	3.679E-01	4.904E-01	7.181E-01	8.932E-01	1.314E+00	1.716E+00	1.927E+00	2.277E+00	2.505E+00	2.627E+00	2.697E+00	2.767E+00	2.802E+00	2.802E+00
NO_2	4.030E-02	7.260E-02	9.680E-02	1.371E-01	1.693E-01	2.258E-01	3.306E-01	4.113E-01	6.048E-01	7.903E-01	8.871E-01	1.048E+00	1.153E+00	1.210E+00	1.242E+00	1.274E+00	1.290E+00	1.290E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of HGV9**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.576E-01	7.260E-02	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.101E-01	9.680E-02	0.000E+00	0.000E+00
4.904E-01	2.258E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
7.181E-01	3.306E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.977E-01	1.371E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (HGV9_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV9s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV9 (Diesel)									HGV9 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	6.930E-02	3.242E-02	6.169E-04	6.169E-04
0900 - 1000	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	6.930E-02	3.242E-02	6.169E-04	6.169E-04
1100 - 1200	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	6.930E-02	3.242E-02	6.169E-04	6.169E-04
1200 - 1300	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	3.352E-01	1.568E-01	6.169E-04	6.169E-04	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	6.930E-02	3.242E-02	6.169E-04	6.169E-04
2200 - 2300	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	6.930E-02	3.242E-02	6.169E-04	6.169E-04	3.465E-02	1.621E-02	3.084E-04	3.084E-04	1.756E-02	8.056E-03	0.000E+00	0.000E+00	1.054E-01	4.834E-02	0.000E+00	0.000E+00	2.927E-05	1.343E-05	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	6.930E-02	3.242E-02	6.169E-04	6.169E-04	3.465E-02	1.621E-02	3.084E-04	3.084E-04	2.506E-02	1.151E-02	0.000E+00	0.000E+00	1.504E-01	6.908E-02	0.000E+00	0.000E+00	4.177E-05	1.919E-05	0.000E+00	0.000E+00
1100 - 1200	6.930E-02	3.242E-02	6.169E-04	6.169E-04	3.465E-02	1.621E-02	3.084E-04	3.084E-04	6.511E-02	2.994E-02	0.000E+00	0.000E+00	3.906E-01	1.796E-01	0.000E+00	0.000E+00	1.085E-04	4.990E-05	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	3.352E-01	1.568E-01	6.169E-04	6.169E-04	1.676E-01	7.839E-02	3.084E-04	3.084E-04	7.865E-02	3.603E-02	0.000E+00	0.000E+00	4.719E-01	2.162E-01	0.000E+00	0.000E+00	1.311E-04	6.005E-05	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	6.930E-02	3.242E-02	6.169E-04	6.169E-04	3.465E-02	1.621E-02	3.084E-04	3.084E-04	3.758E-02	1.727E-02	0.000E+00	0.000E+00	2.255E-01	1.036E-01	0.000E+00	0.000E+00	6.263E-05	2.878E-05	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (HGV9)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	HGV9								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	5.396E-01	2.524E-01	1.342E-02	1.234E-02
0900 - 1000	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	5.396E-01	2.524E-01	1.342E-02	1.234E-02
1100 - 1200	1.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	5.396E-01	2.524E-01	1.342E-02	1.234E-02
1200 - 1300	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	5.396E-01	2.524E-01	1.342E-02	1.234E-02
1700 - 1800	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	1.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	5.396E-01	2.524E-01	1.342E-02	1.234E-02
2200 - 2300	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV9s =	2	min

Hour	HGV9								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mai Po Warehouse (米埔物流倉) (HGV9)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	6.264E-01	2.929E-01	1.404E-02	1.296E-02	1.740E-04	8.135E-05	3.899E-06	3.599E-06
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	6.339E-01	2.963E-01	1.404E-02	1.296E-02	1.761E-04	8.231E-05	3.899E-06	3.599E-06
1100 - 1200	6.740E-01	3.147E-01	1.404E-02	1.296E-02	1.872E-04	8.743E-05	3.899E-06	3.599E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	9.534E-01	4.452E-01	1.404E-02	1.296E-02	2.648E-04	1.237E-04	3.899E-06	3.599E-06
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	6.464E-01	3.021E-01	1.404E-02	1.296E-02	1.796E-04	8.391E-05	3.899E-06	3.599E-06
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (PC_Diesel)

Starting Emission

No. of PC(Diesel) to No. of PC (Petrol) Ratio =		0.02

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of PC_Diesel**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.06	0.00	0.03	0.00	0.00	0.04	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.03
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	**Total Starting Emission (g)**			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (PC_Diesel)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	PC (Diesel)									PC (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.03	4.020E-02	5.885E-03	9.153E-04	9.153E-04	2.393E-03	3.503E-04	5.449E-05	5.449E-05	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.03	4.020E-02	5.885E-03	9.153E-04	9.153E-04	2.393E-03	3.503E-04	5.449E-05	5.449E-05	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.06	4.020E-02	5.885E-03	9.153E-04	9.153E-04	4.787E-03	7.007E-04	1.090E-04	1.090E-04	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	4.020E-02	5.885E-03	9.153E-04	9.153E-04	2.393E-03	3.503E-04	5.449E-05	5.449E-05
1800 - 1900	0.07	4.020E-02	5.885E-03	9.153E-04	9.153E-04	5.983E-03	8.759E-04	1.362E-04	1.362E-04	0.09	4.020E-02	5.885E-03	9.153E-04	9.153E-04	7.180E-03	1.051E-03	1.635E-04	1.635E-04
1900 - 2000	0.03	4.020E-02	5.885E-03	9.153E-04	9.153E-04	2.393E-03	3.503E-04	5.449E-05	5.449E-05	0.03	4.020E-02	5.885E-03	9.153E-04	9.153E-04	2.393E-03	3.503E-04	5.449E-05	5.449E-05
2000 - 2100	0.06	4.020E-02	5.885E-03	9.153E-04	9.153E-04	4.787E-03	7.007E-04	1.090E-04	1.090E-04	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.393E-03	3.503E-04	5.449E-05	5.449E-05	1.197E-03	1.752E-04	2.725E-05	2.725E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	2.393E-03	3.503E-04	5.449E-05	5.449E-05	1.197E-03	1.752E-04	2.725E-05	2.725E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	4.787E-03	7.007E-04	1.090E-04	1.090E-04	2.393E-03	3.503E-04	5.449E-05	5.449E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	2.393E-03	3.503E-04	5.449E-05	5.449E-05	1.197E-03	1.752E-04	2.725E-05	2.725E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.316E-02	1.927E-03	2.997E-04	2.997E-04	6.582E-03	9.635E-04	1.499E-04	1.499E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	4.787E-03	7.007E-04	1.090E-04	1.090E-04	2.393E-03	3.503E-04	5.449E-05	5.449E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	4.787E-03	7.007E-04	1.090E-04	1.090E-04	2.393E-03	3.503E-04	5.449E-05	5.449E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (PC_Petrol)

Starting Emission

No. of PC(Diesel) to No. of PC (Petrol) Ratio =		0.02

	Starting Emission Factor (g/trip)																	
NO	5.381E-02	5.471E-02	5.651E-02	5.821E-02	5.992E-02	6.152E-02	6.302E-02	7.012E-02	7.962E-02	7.892E-02	7.792E-02	7.632E-02	7.432E-02	7.191E-02	6.901E-02	6.561E-02	6.181E-02	5.761E-02
NO_2	2.801E-03	2.901E-03	3.001E-03	3.101E-03	3.201E-03	3.201E-03	3.301E-03	3.701E-03	4.201E-03	4.201E-03	4.101E-03	4.001E-03	3.901E-03	3.801E-03	3.601E-03	3.501E-03	3.300E-03	3.000E-03
RSP	4.003E-04	8.003E-04	1.500E-03	2.300E-03	3.000E-03	3.600E-03	4.300E-03	7.100E-03	7.900E-03	8.700E-03	9.300E-03	9.901E-03	1.040E-02	1.080E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.003E-04	7.002E-04	1.400E-03	2.100E-03	2.700E-03	3.400E-03	3.900E-03	6.500E-03	7.300E-03	8.000E-03	8.700E-03	9.200E-03	9.600E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	**No. of Cold Starts of PC_Petrol**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	0.00	1.218E-01	6.503E-03	2.227E-02	2.069E-02
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.242E-01	6.504E-03	8.472E-03	7.684E-03
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00	3.058E-01	1.616E-02	3.665E-02	3.389E-02
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.060E-01	5.518E-03	7.888E-04	7.886E-04
1800 - 1900	0.00	0.00	3.94	0.00	1.97	0.00	0.00	2.96	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.034E-01	3.735E-02	4.995E-02	4.581E-02
1900 - 2000	0.00	0.00	0.00	1.97	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.528E-01	1.340E-02	1.852E-02	1.694E-02
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	0.00	1.97	2.428E-01	1.281E-02	4.433E-02	4.118E-02
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (PC_Petrol)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	PC (Petrol)									PC (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.97	1.306E-03	6.826E-05	1.223E-05	1.223E-05	5.145E-03	2.690E-04	4.819E-05	4.819E-05	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.97	1.306E-03	6.826E-05	1.223E-05	1.223E-05	5.145E-03	2.690E-04	4.819E-05	4.819E-05
1200 - 1300	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	3.94	1.306E-03	6.826E-05	1.223E-05	1.223E-05	1.029E-02	5.379E-04	9.637E-05	9.637E-05	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.97	1.306E-03	6.826E-05	1.223E-05	1.223E-05	5.145E-03	2.690E-04	4.819E-05	4.819E-05
1800 - 1900	1.97	1.306E-03	6.826E-05	1.223E-05	1.223E-05	5.145E-03	2.690E-04	4.819E-05	4.819E-05	8.87	1.306E-03	6.826E-05	1.223E-05	1.223E-05	2.315E-02	1.210E-03	2.168E-04	2.168E-04
1900 - 2000	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.94	1.306E-03	6.826E-05	1.223E-05	1.223E-05	1.029E-02	5.379E-04	9.637E-05	9.637E-05
2000 - 2100	3.94	1.306E-03	6.826E-05	1.223E-05	1.223E-05	1.029E-02	5.379E-04	9.637E-05	9.637E-05	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	5.145E-03	2.690E-04	4.819E-05	4.819E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.218E-01	6.503E-03	2.227E-02	2.069E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	5.145E-03	2.690E-04	4.819E-05	4.819E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.242E-01	6.504E-03	8.472E-03	7.684E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.029E-02	5.379E-04	9.637E-05	9.637E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.058E-01	1.616E-02	3.665E-02	3.389E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	5.145E-03	2.690E-04	4.819E-05	4.819E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.060E-01	5.518E-03	7.888E-04	7.886E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.830E-02	1.479E-03	2.650E-04	2.650E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.034E-01	3.735E-02	4.995E-02	4.581E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	1.029E-02	5.379E-04	9.637E-05	9.637E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.528E-01	1.340E-02	1.852E-02	1.694E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.029E-02	5.379E-04	9.637E-05	9.637E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.428E-01	1.281E-02	4.433E-02	4.118E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (PC)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	PC								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	3.536E-02	1.920E-03	7.680E-03	7.120E-03
0700 - 0800	2.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	3.536E-02	1.920E-03	7.680E-03	7.120E-03
0800 - 0900	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	2.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	3.536E-02	1.920E-03	7.680E-03	7.120E-03
1100 - 1200	2.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	3.536E-02	1.920E-03	7.680E-03	7.120E-03
1200 - 1300	2.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	3.536E-02	1.920E-03	7.680E-03	7.120E-03
1300 - 1400	6.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	1.061E-01	5.760E-03	2.304E-02	2.136E-02
1400 - 1500	2.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	3.536E-02	1.920E-03	7.680E-03	7.120E-03
1500 - 1600	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	3.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	5.304E-02	2.880E-03	1.152E-02	1.068E-02
1700 - 1800	4.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	7.072E-02	3.840E-03	1.536E-02	1.424E-02
1800 - 1900	11.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	1.945E-01	1.056E-02	4.224E-02	3.916E-02
1900 - 2000	4.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	7.072E-02	3.840E-03	1.536E-02	1.424E-02
2000 - 2100	4.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	7.072E-02	3.840E-03	1.536E-02	1.424E-02
2100 - 2200	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of PC(Diesel) to No. of PC (Petrol) Ratio [1] =	0.02	
Idling Time for Non-terminating PCs =	0.5	min

Hour	PC (Diesel)									PC (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.03	4.020E-02	5.885E-03	9.153E-04	9.153E-04	5.983E-04	8.759E-05	1.362E-05	1.362E-05	2	1.306E-03	6.826E-05	1.223E-05	1.223E-05	1.286E-03	6.724E-05	1.205E-05	1.205E-05
0800 - 0900	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.03	4.020E-02	5.885E-03	9.153E-04	9.153E-04	5.983E-04	8.759E-05	1.362E-05	1.362E-05	2	1.306E-03	6.826E-05	1.223E-05	1.223E-05	1.286E-03	6.724E-05	1.205E-05	1.205E-05
1100 - 1200	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.03	4.020E-02	5.885E-03	9.153E-04	9.153E-04	5.983E-04	8.759E-05	1.362E-05	1.362E-05	2	1.306E-03	6.826E-05	1.223E-05	1.223E-05	1.286E-03	6.724E-05	1.205E-05	1.205E-05
1300 - 1400	0.03	4.020E-02	5.885E-03	9.153E-04	9.153E-04	5.983E-04	8.759E-05	1.362E-05	1.362E-05	2	1.306E-03	6.826E-05	1.223E-05	1.223E-05	1.286E-03	6.724E-05	1.205E-05	1.205E-05
1400 - 1500	0.03	4.020E-02	5.885E-03	9.153E-04	9.153E-04	5.983E-04	8.759E-05	1.362E-05	1.362E-05	2	1.306E-03	6.826E-05	1.223E-05	1.223E-05	1.286E-03	6.724E-05	1.205E-05	1.205E-05
1500 - 1600	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.04	4.020E-02	5.885E-03	9.153E-04	9.153E-04	8.975E-04	1.314E-04	2.044E-05	2.044E-05	3	1.306E-03	6.826E-05	1.223E-05	1.223E-05	1.929E-03	1.009E-04	1.807E-05	1.807E-05
1700 - 1800	0.03	4.020E-02	5.885E-03	9.153E-04	9.153E-04	5.983E-04	8.759E-05	1.362E-05	1.362E-05	2	1.306E-03	6.826E-05	1.223E-05	1.223E-05	1.286E-03	6.724E-05	1.205E-05	1.205E-05
1800 - 1900	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of PC(Diesel) to PC (Petrol) was extracted from Year 2034 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (PC)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.647E-01	9.042E-03	3.005E-02	2.791E-02	4.574E-05	2.512E-06	8.347E-06	7.753E-06
0700 - 0800	3.724E-02	2.075E-03	7.706E-03	7.146E-03	1.035E-05	5.763E-07	2.140E-06	1.985E-06
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	3.724E-02	2.075E-03	7.706E-03	7.146E-03	1.035E-05	5.763E-07	2.140E-06	1.985E-06
1100 - 1200	1.671E-01	9.043E-03	1.625E-02	1.491E-02	4.641E-05	2.512E-06	4.515E-06	4.141E-06
1200 - 1300	3.724E-02	2.075E-03	7.706E-03	7.146E-03	1.035E-05	5.763E-07	2.140E-06	1.985E-06
1300 - 1400	4.289E-01	2.331E-02	5.992E-02	5.548E-02	1.191E-04	6.476E-06	1.664E-05	1.541E-05
1400 - 1500	3.724E-02	2.075E-03	7.706E-03	7.146E-03	1.035E-05	5.763E-07	2.140E-06	1.985E-06
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	5.587E-02	3.112E-03	1.156E-02	1.072E-02	1.552E-05	8.645E-07	3.211E-06	2.977E-06
1700 - 1800	1.862E-01	1.013E-02	1.628E-02	1.516E-02	5.171E-05	2.814E-06	4.521E-06	4.210E-06
1800 - 1900	9.394E-01	5.131E-02	9.275E-02	8.553E-02	2.609E-04	1.425E-05	2.576E-05	2.376E-05
1900 - 2000	3.386E-01	1.848E-02	3.409E-02	3.139E-02	9.407E-05	5.133E-06	9.468E-06	8.719E-06
2000 - 2100	3.286E-01	1.789E-02	5.990E-02	5.563E-02	9.127E-05	4.969E-06	1.664E-05	1.545E-05
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (Taxi_LPG)

Starting Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio =		53996.70

	Starting Emission Factor (g/trip)																	
NO	1.006E+00	1.023E+00	1.055E+00	1.087E+00	1.117E+00	1.147E+00	1.175E+00	1.308E+00	1.485E+00	1.473E+00	1.453E+00	1.424E+00	1.386E+00	1.340E+00	1.286E+00	1.223E+00	1.152E+00	1.073E+00
NO_2	2.820E-02	2.870E-02	2.960E-02	3.050E-02	3.140E-02	3.220E-02	3.300E-02	3.670E-02	4.170E-02	4.130E-02	4.080E-02	3.990E-02	3.890E-02	3.760E-02	3.610E-02	3.430E-02	3.230E-02	3.010E-02
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	No. of Cold Starts of Taxi_LPG																	
Sitting Time (min)	5	10	20	30	40	50	60	120	180	240	300	360	420	480	540	600	660	720
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	Total Starting Emission (g)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (Taxi_LPG)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (LPG)									Taxi (LPG)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (Taxi_Petrol)

Starting Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio =		53996.70

	Starting Emission Factor (g/trip)																	
NO	7.790E-02	7.910E-02	8.170E-02	8.420E-02	8.640E-02	8.870E-02	9.090E-02	1.013E-01	1.149E-01	1.140E-01	1.125E-01	1.102E-01	1.073E-01	1.037E-01	9.960E-02	9.470E-02	8.920E-02	8.300E-02
NO_2	4.100E-03	4.200E-03	4.300E-03	4.400E-03	4.600E-03	4.700E-03	4.800E-03	5.300E-03	6.100E-03	6.000E-03	5.900E-03	5.800E-03	5.600E-03	5.500E-03	5.200E-03	5.000E-03	4.700E-03	4.400E-03
RSP	4.000E-04	8.000E-04	1.500E-03	2.300E-03	3.000E-03	3.600E-03	4.200E-03	7.000E-03	7.900E-03	8.700E-03	9.300E-03	9.900E-03	1.040E-02	1.070E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.000E-04	7.000E-04	1.400E-03	2.100E-03	2.700E-03	3.400E-03	3.900E-03	6.500E-03	7.300E-03	8.000E-03	8.700E-03	9.200E-03	9.600E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	**No. of Cold Starts of Taxi_Petrol**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Ratio
Height

Avg Height

Rel Height

Sz

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (Taxi_Petrol)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (Petrol)									Taxi (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (Taxi)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	Frequency	Taxi							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	7.502E-01	2.104E-02	0.000E+00	0.000E+00
1900 - 2000	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio [1] =	53996.70	
Idling Time for Non-terminating Taxi =	0.5	min

Hour	Frequency	Taxi (LPG)								Frequency	Taxi (Petrol)							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)					Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	3.052E-08	1.583E-09	4.013E-09	4.013E-09
1900 - 2000	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (Taxi)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	9.626E-01	2.700E-02	4.013E-09	4.013E-09	2.674E-04	7.500E-06	1.115E-12	1.115E-12
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (LGV3_Diesel)

Starting Emission

No. of LGV3(Diesel) to No. of LGV3 (Petrol) Ratio =		29.60

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of LGV3_Diesel**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	**Total Starting Emission (g)**			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (LGV3_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV3 (Diesel)									LGV3 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.93	2.703E-02	1.598E-03	4.333E-04	4.333E-04	1.046E-01	6.181E-03	1.677E-03	1.677E-03
1500 - 1600	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.93	2.703E-02	1.598E-03	4.333E-04	4.333E-04	1.046E-01	6.181E-03	1.677E-03	1.677E-03
1800 - 1900	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.046E-01	6.181E-03	1.677E-03	1.677E-03	5.229E-02	3.091E-03	8.383E-04	8.383E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.046E-01	6.181E-03	1.677E-03	1.677E-03	5.229E-02	3.091E-03	8.383E-04	8.383E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (LGV3_Petrol)

Starting Emission

No. of LGV3(Diesel) to No. of LGV3 (Petrol) Ratio =		29.60

	Starting Emission Factor (g/trip)																	
NO	3.890E-02	4.360E-02	5.190E-02	5.870E-02	6.420E-02	6.830E-02	7.110E-02	7.720E-02	8.540E-02	8.480E-02	8.390E-02	8.270E-02	8.100E-02	7.900E-02	7.680E-02	7.420E-02	7.130E-02	6.790E-02
NO_2	2.100E-03	2.300E-03	2.700E-03	3.100E-03	3.400E-03	3.600E-03	3.700E-03	4.100E-03	4.500E-03	4.500E-03	4.400E-03	4.300E-03	4.300E-03	4.200E-03	4.000E-03	3.900E-03	3.700E-03	3.600E-03
RSP	1.000E-04	2.000E-04	4.000E-04	5.000E-04	7.000E-04	8.000E-04	9.000E-04	1.300E-03	1.400E-03	1.400E-03	1.500E-03	1.500E-03	1.600E-03	1.600E-03	1.700E-03	1.700E-03	1.800E-03	1.800E-03
FSP	1.000E-04	2.000E-04	3.000E-04	5.000E-04	6.000E-04	7.000E-04	8.000E-04	1.200E-03	1.300E-03	1.300E-03	1.400E-03	1.400E-03	1.500E-03	1.500E-03	1.600E-03	1.600E-03	1.600E-03	1.700E-03

Hour	**No. of Cold Starts of LGV3_Petrol**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.850E-03	1.503E-04	1.307E-05	1.307E-05
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.543E-03	1.373E-04	6.536E-06	6.536E-06
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (LGV3_Petrol)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	LGV3 (Petrol)									LGV3 (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.07	1.860E-03	9.791E-05	4.056E-06	4.056E-06	2.432E-04	1.280E-05	5.302E-07	5.302E-07
1500 - 1600	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.07	1.860E-03	9.791E-05	4.056E-06	4.056E-06	2.432E-04	1.280E-05	5.302E-07	5.302E-07
1800 - 1900	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	2.432E-04	1.280E-05	5.302E-07	5.302E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.850E-03	1.503E-04	1.307E-05	1.307E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	2.432E-04	1.280E-05	5.302E-07	5.302E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.543E-03	1.373E-04	6.536E-06	6.536E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (LGV3)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	LGV3								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	1.316E+00	7.776E-02	1.176E-02	1.080E-02
0700 - 0800	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	3.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	1.974E+00	1.166E-01	1.764E-02	1.620E-02
1000 - 1100	2.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	1.316E+00	7.776E-02	1.176E-02	1.080E-02
1100 - 1200	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	2.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	1.316E+00	7.776E-02	1.176E-02	1.080E-02
1500 - 1600	2.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	1.316E+00	7.776E-02	1.176E-02	1.080E-02
1600 - 1700	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	2.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	1.316E+00	7.776E-02	1.176E-02	1.080E-02
1800 - 1900	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	1.316E+00	7.776E-02	1.176E-02	1.080E-02
2100 - 2200	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of LGV3(Diesel) to No. of LGV3 (Petrol) Ratio [1] =	29.60	
Idling Time for Non-terminating LGV3s =	0.5	min

Hour	LGV3 (Diesel)									LGV3 (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.93	2.703E-02	1.598E-03	4.333E-04	4.333E-04	2.615E-02	1.545E-03	4.192E-04	4.192E-04	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	6.080E-05	3.200E-06	1.325E-07	1.325E-07
0700 - 0800	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.90	2.703E-02	1.598E-03	4.333E-04	4.333E-04	3.922E-02	2.318E-03	6.288E-04	6.288E-04	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	9.120E-05	4.800E-06	1.988E-07	1.988E-07
1000 - 1100	1.93	2.703E-02	1.598E-03	4.333E-04	4.333E-04	2.615E-02	1.545E-03	4.192E-04	4.192E-04	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	6.080E-05	3.200E-06	1.325E-07	1.325E-07
1100 - 1200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	1.93	2.703E-02	1.598E-03	4.333E-04	4.333E-04	2.615E-02	1.545E-03	4.192E-04	4.192E-04	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	6.080E-05	3.200E-06	1.325E-07	1.325E-07
1600 - 1700	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.93	2.703E-02	1.598E-03	4.333E-04	4.333E-04	2.615E-02	1.545E-03	4.192E-04	4.192E-04	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	6.080E-05	3.200E-06	1.325E-07	1.325E-07
2100 - 2200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of LGV3(Diesel) to LGV3 (Petrol) was extracted from Year 2034 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (LGV3)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.342E+00	7.931E-02	1.218E-02	1.122E-02	3.729E-04	2.203E-05	3.383E-06	3.116E-06
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.013E+00	1.190E-01	1.827E-02	1.683E-02	5.593E-04	3.305E-05	5.075E-06	4.675E-06
1000 - 1100	1.342E+00	7.931E-02	1.218E-02	1.122E-02	3.729E-04	2.203E-05	3.383E-06	3.116E-06
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.424E+00	8.410E-02	1.345E-02	1.249E-02	3.955E-04	2.336E-05	3.736E-06	3.470E-06
1500 - 1600	1.342E+00	7.931E-02	1.218E-02	1.122E-02	3.729E-04	2.203E-05	3.383E-06	3.116E-06
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.423E+00	8.409E-02	1.344E-02	1.248E-02	3.954E-04	2.336E-05	3.734E-06	3.468E-06
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.342E+00	7.931E-02	1.218E-02	1.122E-02	3.729E-04	2.203E-05	3.383E-06	3.116E-06
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (LGV6_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	4.900E-02	8.810E-02	1.175E-01	1.665E-01	2.057E-01	2.742E-01	4.016E-01	4.995E-01	7.346E-01	9.599E-01	1.077E+00	1.273E+00	1.401E+00	1.469E+00	1.508E+00	1.548E+00	1.567E+00	1.567E+00
NO_2	1.900E-02	3.430E-02	4.570E-02	6.480E-02	8.000E-02	1.067E-01	1.562E-01	1.943E-01	2.857E-01	3.733E-01	4.190E-01	4.952E-01	5.447E-01	5.714E-01	5.866E-01	6.018E-01	6.094E-01	6.094E-01
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of LGV6**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	2.938E+00	1.143E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.762E-01	6.860E-02	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.032E-01	3.124E-01	0.000E+00	0.000E+00
1100 - 1200	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.470E-01	5.700E-02	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.032E-01	3.124E-01	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.723E+00	1.059E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.350E-01	9.140E-02	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	3.095E+00	1.204E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (LGV6_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV6s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV6 (Diesel)									LGV6 (Diesel)									
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	2.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	1.761E-01	6.847E-02	8.538E-04	8.538E-04	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	1.042E-01	4.051E-02	8.538E-04	8.538E-04
1000 - 1100	2.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	1.761E-01	6.847E-02	8.538E-04	8.538E-04	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	1.562E-01	6.076E-02	1.281E-03	1.281E-03
1200 - 1300	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	1.761E-01	6.847E-02	8.538E-04	8.538E-04	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	4.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	3.521E-01	1.369E-01	1.708E-03	1.708E-03	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	1.042E-01	4.051E-02	8.538E-04	8.538E-04
1800 - 1900	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	1.761E-01	6.847E-02	8.538E-04	8.538E-04	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.761E-01	6.847E-02	8.538E-04	8.538E-04	8.803E-02	3.424E-02	4.269E-04	4.269E-04	8.144E-01	3.167E-01	0.000E+00	0.000E+00	2.036E+00	7.918E-01	0.000E+00	0.000E+00	5.655E-04	2.200E-04	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.042E-01	4.051E-02	8.538E-04	8.538E-04	5.208E-02	2.025E-02	4.269E-04	4.269E-04	3.546E-02	1.381E-02	0.000E+00	0.000E+00	8.866E-02	3.453E-02	0.000E+00	0.000E+00	2.463E-05	9.593E-06	0.000E+00	0.000E+00
1000 - 1100	1.761E-01	6.847E-02	8.538E-04	8.538E-04	8.803E-02	3.424E-02	4.269E-04	4.269E-04	2.043E-01	7.948E-02	0.000E+00	0.000E+00	5.108E-01	1.987E-01	0.000E+00	0.000E+00	1.419E-04	5.519E-05	0.000E+00	0.000E+00
1100 - 1200	1.562E-01	6.076E-02	1.281E-03	1.281E-03	7.812E-02	3.038E-02	6.403E-04	6.403E-04	1.968E-02	7.606E-03	0.000E+00	0.000E+00	4.920E-02	1.901E-02	0.000E+00	0.000E+00	1.367E-05	5.282E-06	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.761E-01	6.847E-02	8.538E-04	8.538E-04	8.803E-02	3.424E-02	4.269E-04	4.269E-04	2.043E-01	7.948E-02	0.000E+00	0.000E+00	5.108E-01	1.987E-01	0.000E+00	0.000E+00	1.419E-04	5.519E-05	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	3.521E-01	1.369E-01	1.708E-03	1.708E-03	1.761E-01	6.847E-02	8.538E-04	8.538E-04	7.277E-01	2.830E-01	0.000E+00	0.000E+00	1.819E+00	7.075E-01	0.000E+00	0.000E+00	5.053E-04	1.965E-04	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.042E-01	4.051E-02	8.538E-04	8.538E-04	5.208E-02	2.025E-02	4.269E-04	4.269E-04	5.226E-02	2.033E-02	0.000E+00	0.000E+00	1.307E-01	5.082E-02	0.000E+00	0.000E+00	3.629E-05	1.412E-05	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.761E-01	6.847E-02	8.538E-04	8.538E-04	8.803E-02	3.424E-02	4.269E-04	4.269E-04	8.592E-01	3.341E-01	0.000E+00	0.000E+00	2.148E+00	8.353E-01	0.000E+00	0.000E+00	5.967E-04	2.320E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (LGV6)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	Frequency	LGV6							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	2.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	5.819E-01	2.263E-01	1.672E-02	1.536E-02
0800 - 0900	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	5.819E-01	2.263E-01	1.672E-02	1.536E-02
1000 - 1100	2.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	5.819E-01	2.263E-01	1.672E-02	1.536E-02
1100 - 1200	5.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	1.455E+00	5.658E-01	4.180E-02	3.840E-02
1200 - 1300	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	4.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	1.164E+00	4.526E-01	3.344E-02	3.072E-02
1400 - 1500	2.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	5.819E-01	2.263E-01	1.672E-02	1.536E-02
1500 - 1600	4.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	1.164E+00	4.526E-01	3.344E-02	3.072E-02
1600 - 1700	2.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	5.819E-01	2.263E-01	1.672E-02	1.536E-02
1700 - 1800	2.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	5.819E-01	2.263E-01	1.672E-02	1.536E-02
1800 - 1900	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	5.819E-01	2.263E-01	1.672E-02	1.536E-02
2100 - 2200	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating LGV6s =	2	min

Hour	Frequency	LGV6							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	2.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	1.042E-01	4.051E-02	8.538E-04	8.538E-04
1200 - 1300	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	1.042E-01	4.051E-02	8.538E-04	8.538E-04
1400 - 1500	2.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	1.042E-01	4.051E-02	8.538E-04	8.538E-04
1500 - 1600	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	1.042E-01	4.051E-02	8.538E-04	8.538E-04
1700 - 1800	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (LGV6)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.572E+00	6.115E-01	1.757E-02	1.621E-02	4.368E-04	1.699E-04	4.882E-06	4.504E-06
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	7.215E-01	2.806E-01	1.757E-02	1.621E-02	2.004E-04	7.796E-05	4.882E-06	4.504E-06
1000 - 1100	9.623E-01	3.743E-01	1.757E-02	1.621E-02	2.673E-04	1.040E-04	4.882E-06	4.504E-06
1100 - 1200	1.735E+00	6.747E-01	4.393E-02	4.053E-02	4.819E-04	1.874E-04	1.220E-05	1.126E-05
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.648E+00	6.411E-01	3.515E-02	3.243E-02	4.579E-04	1.781E-04	9.763E-06	9.008E-06
1400 - 1500	6.861E-01	2.668E-01	1.757E-02	1.621E-02	1.906E-04	7.412E-05	4.882E-06	4.504E-06
1500 - 1600	2.244E+00	8.726E-01	3.515E-02	3.243E-02	6.232E-04	2.424E-04	9.763E-06	9.008E-06
1600 - 1700	6.861E-01	2.668E-01	1.757E-02	1.621E-02	1.906E-04	7.412E-05	4.882E-06	4.504E-06
1700 - 1800	7.383E-01	2.872E-01	1.757E-02	1.621E-02	2.051E-04	7.977E-05	4.882E-06	4.504E-06
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.617E+00	6.289E-01	1.757E-02	1.621E-02	4.492E-04	1.747E-04	4.882E-06	4.504E-06
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (HGV7_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.610E-02	1.550E-01	2.067E-01	2.928E-01	3.617E-01	4.823E-01	7.062E-01	8.785E-01	1.292E+00	1.688E+00	1.895E+00	2.239E+00	2.463E+00	2.584E+00	2.653E+00	2.722E+00	2.756E+00	2.756E+00
NO_2	4.230E-02	7.610E-02	1.015E-01	1.438E-01	1.776E-01	2.368E-01	3.468E-01	4.313E-01	6.343E-01	8.288E-01	9.303E-01	1.100E+00	1.209E+00	1.269E+00	1.303E+00	1.336E+00	1.353E+00	1.353E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of HGV7**																		Total Starting Emission (g)			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	5.512E+00	2.706E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	1.378E+01	6.766E+00	0.000E+00	0.000E+00
0900 - 1000	2.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	2.00	1.175E+01	5.768E+00	0.000E+00	0.000E+00
1000 - 1100	2.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.051E+00	5.160E-01	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.275E+00	6.258E-01	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	6.804E+00	3.341E+00	0.000E+00	0.000E+00
1500 - 1600	3.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.671E+00	8.205E-01	0.000E+00	0.000E+00
1600 - 1700	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.578E-01	3.722E-01	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.309E+00	6.428E-01	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (HGV7_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV7s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV7 (Diesel)									HGV7 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	2.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	9.523E-01	4.637E-01	9.098E-04	9.098E-04	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	5.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	2.381E+00	1.159E+00	2.275E-03	2.275E-03	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	4.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	1.905E+00	9.275E-01	1.820E-03	1.820E-03	5.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	2.536E-01	1.235E-01	2.275E-03	2.275E-03
1000 - 1100	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	2.536E-01	1.235E-01	2.275E-03	2.275E-03
1100 - 1200	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	2.029E-01	9.882E-02	1.820E-03	1.820E-03
1400 - 1500	2.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	9.523E-01	4.637E-01	9.098E-04	9.098E-04	5.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	2.536E-01	1.235E-01	2.275E-03	2.275E-03
1500 - 1600	2.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	9.523E-01	4.637E-01	9.098E-04	9.098E-04	3.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	1.522E-01	7.412E-02	1.365E-03	1.365E-03
1600 - 1700	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	2.029E-01	9.882E-02	1.820E-03	1.820E-03
1700 - 1800	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	2.029E-01	9.882E-02	1.820E-03	1.820E-03
1900 - 2000	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	9.523E-01	4.637E-01	9.098E-04	9.098E-04	4.761E-01	2.319E-01	4.549E-04	4.549E-04	1.439E+00	7.070E-01	0.000E+00	0.000E+00	3.597E+00	1.768E+00	0.000E+00	0.000E+00	9.992E-04	4.910E-04	0.000E+00	0.000E+00
0800 - 0900	2.381E+00	1.159E+00	2.275E-03	2.275E-03	1.190E+00	5.797E-01	1.137E-03	1.137E-03	3.597E+00	1.768E+00	0.000E+00	0.000E+00	8.993E+00	4.419E+00	0.000E+00	0.000E+00	2.498E-03	1.227E-03	0.000E+00	0.000E+00
0900 - 1000	2.158E+00	1.051E+00	4.094E-03	4.094E-03	1.079E+00	5.255E-01	2.047E-03	2.047E-03	3.048E+00	1.498E+00	0.000E+00	0.000E+00	7.620E+00	3.745E+00	0.000E+00	0.000E+00	2.117E-03	1.040E-03	0.000E+00	0.000E+00
1000 - 1100	2.536E-01	1.235E-01	2.275E-03	2.275E-03	1.268E-01	6.176E-02	1.137E-03	1.137E-03	2.639E-01	1.298E-01	0.000E+00	0.000E+00	6.598E-01	3.245E-01	0.000E+00	0.000E+00	1.833E-04	9.013E-05	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.029E-01	9.882E-02	1.820E-03	1.820E-03	1.015E-01	4.941E-02	9.098E-04	9.098E-04	3.352E-01	1.647E-01	0.000E+00	0.000E+00	8.380E-01	4.117E-01	0.000E+00	0.000E+00	2.328E-04	1.144E-04	0.000E+00	0.000E+00
1400 - 1500	1.206E+00	5.873E-01	3.184E-03	3.184E-03	6.029E-01	2.936E-01	1.592E-03	1.592E-03	1.772E+00	8.706E-01	0.000E+00	0.000E+00	4.429E+00	2.177E+00	0.000E+00	0.000E+00	1.230E-03	6.046E-04	0.000E+00	0.000E+00
1500 - 1600	1.104E+00	5.379E-01	2.275E-03	2.275E-03	5.522E-01	2.689E-01	1.137E-03	1.137E-03	3.196E-01	1.576E-01	0.000E+00	0.000E+00	7.989E-01	3.940E-01	0.000E+00	0.000E+00	2.219E-04	1.094E-04	0.000E+00	0.000E+00
1600 - 1700	2.029E-01	9.882E-02	1.820E-03	1.820E-03	1.015E-01	4.941E-02	9.098E-04	9.098E-04	1.875E-01	9.223E-02	0.000E+00	0.000E+00	4.688E-01	2.306E-01	0.000E+00	0.000E+00	1.302E-04	6.405E-05	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.029E-01	9.882E-02	1.820E-03	1.820E-03	1.015E-01	4.941E-02	9.098E-04	9.098E-04	3.450E-01	1.695E-01	0.000E+00	0.000E+00	8.625E-01	4.238E-01	0.000E+00	0.000E+00	2.396E-04	1.177E-04	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (HGV7)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV7							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	2.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	8.739E-01	4.256E-01	3.152E-02	2.896E-02
0800 - 0900	5.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	2.185E+00	1.064E+00	7.880E-02	7.240E-02
0900 - 1000	9.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	3.933E+00	1.915E+00	1.418E-01	1.303E-01
1000 - 1100	5.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	2.185E+00	1.064E+00	7.880E-02	7.240E-02
1100 - 1200	2.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	8.739E-01	4.256E-01	3.152E-02	2.896E-02
1200 - 1300	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	4.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	1.748E+00	8.512E-01	6.304E-02	5.792E-02
1400 - 1500	9.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	3.933E+00	1.915E+00	1.418E-01	1.303E-01
1500 - 1600	5.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	2.185E+00	1.064E+00	7.880E-02	7.240E-02
1600 - 1700	6.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	2.622E+00	1.277E+00	9.456E-02	8.688E-02
1700 - 1800	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	6.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	2.622E+00	1.277E+00	9.456E-02	8.688E-02
1900 - 2000	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV7s =	2	min

Hour	Frequency	HGV7							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	2.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	1.015E-01	4.941E-02	9.098E-04	9.098E-04
1200 - 1300	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	2.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	1.015E-01	4.941E-02	9.098E-04	9.098E-04
1500 - 1600	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	1.015E-01	4.941E-02	9.098E-04	9.098E-04
1700 - 1800	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	1.015E-01	4.941E-02	9.098E-04	9.098E-04
1900 - 2000	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (HGV7)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	3.265E+00	1.596E+00	3.243E-02	2.987E-02	9.070E-04	4.434E-04	9.008E-06	8.297E-06
0800 - 0900	8.163E+00	3.991E+00	8.107E-02	7.467E-02	2.267E-03	1.109E-03	2.252E-05	2.074E-05
0900 - 1000	9.139E+00	4.464E+00	1.459E-01	1.344E-01	2.539E-03	1.240E-03	4.054E-05	3.734E-05
1000 - 1100	2.702E+00	1.317E+00	8.107E-02	7.467E-02	7.507E-04	3.659E-04	2.252E-05	2.074E-05
1100 - 1200	9.754E-01	4.750E-01	3.243E-02	2.987E-02	2.709E-04	1.319E-04	9.008E-06	8.297E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.286E+00	1.115E+00	6.486E-02	5.974E-02	6.350E-04	3.096E-04	1.802E-05	1.659E-05
1400 - 1500	7.012E+00	3.423E+00	1.459E-01	1.344E-01	1.948E-03	9.507E-04	4.054E-05	3.734E-05
1500 - 1600	3.609E+00	1.759E+00	8.107E-02	7.467E-02	1.002E-03	4.887E-04	2.252E-05	2.074E-05
1600 - 1700	3.114E+00	1.517E+00	9.729E-02	8.961E-02	8.649E-04	4.215E-04	2.702E-05	2.489E-05
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	3.271E+00	1.595E+00	9.729E-02	8.961E-02	9.087E-04	4.429E-04	2.702E-05	2.489E-05
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (HGV8_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.630E-02	1.552E-01	2.070E-01	2.932E-01	3.622E-01	4.830E-01	7.072E-01	8.797E-01	1.294E+00	1.691E+00	1.898E+00	2.243E+00	2.467E+00	2.588E+00	2.657E+00	2.725E+00	2.760E+00	2.760E+00
NO_2	4.050E-02	7.300E-02	9.730E-02	1.379E-01	1.703E-01	2.271E-01	3.325E-01	4.136E-01	6.082E-01	7.947E-01	8.920E-01	1.054E+00	1.160E+00	1.216E+00	1.249E+00	1.281E+00	1.298E+00	1.298E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of HGV8**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	2.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	2.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	2.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	2.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.520E+00	2.595E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.726E-01	8.100E-02	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
9.660E-01	4.542E-01	0.000E+00	0.000E+00
1.414E+00	6.650E-01	0.000E+00	0.000E+00
1.726E-01	8.100E-02	0.000E+00	0.000E+00
3.950E+00	1.857E+00	0.000E+00	0.000E+00
7.244E-01	3.406E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.587E+00	7.460E-01	0.000E+00	0.000E+00
1.276E+00	6.002E-01	0.000E+00	0.000E+00
3.053E+00	1.435E+00	0.000E+00	0.000E+00
1.414E+00	6.650E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (HGV8_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV8s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV8 (Diesel)									HGV8 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	6.460E-01	3.080E-01	9.778E-04	9.778E-04	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	1.110E-01	5.293E-02	9.778E-04	9.778E-04
0900 - 1000	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	1.110E-01	5.293E-02	9.778E-04	9.778E-04
1100 - 1200	2.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	6.460E-01	3.080E-01	9.778E-04	9.778E-04	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	1.110E-01	5.293E-02	9.778E-04	9.778E-04
1300 - 1400	5.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	1.615E+00	7.700E-01	2.444E-03	2.444E-03	2.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	1.110E-01	5.293E-02	9.778E-04	9.778E-04
1400 - 1500	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	2.220E-01	1.059E-01	1.956E-03	1.956E-03
1500 - 1600	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	6.460E-01	3.080E-01	9.778E-04	9.778E-04	2.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	1.110E-01	5.293E-02	9.778E-04	9.778E-04
1700 - 1800	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	2.220E-01	1.059E-01	1.956E-03	1.956E-03
1800 - 1900	3.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	9.689E-01	4.620E-01	1.467E-03	1.467E-03	2.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	1.110E-01	5.293E-02	9.778E-04	9.778E-04
1900 - 2000	2.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	6.460E-01	3.080E-01	9.778E-04	9.778E-04	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	6.460E-01	3.080E-01	9.778E-04	9.778E-04	3.230E-01	1.540E-01	4.889E-04	4.889E-04	1.485E+00	6.974E-01	0.000E+00	0.000E+00	3.712E+00	1.744E+00	0.000E+00	0.000E+00	1.031E-03	4.843E-04	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.110E-01	5.293E-02	9.778E-04	9.778E-04	5.551E-02	2.647E-02	4.889E-04	4.889E-04	3.345E-02	1.558E-02	0.000E+00	0.000E+00	8.363E-02	3.895E-02	0.000E+00	0.000E+00	2.323E-05	1.082E-05	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.110E-01	5.293E-02	9.778E-04	9.778E-04	5.551E-02	2.647E-02	4.889E-04	4.889E-04	2.601E-01	1.222E-01	0.000E+00	0.000E+00	6.503E-01	3.055E-01	0.000E+00	0.000E+00	1.807E-04	8.487E-05	0.000E+00	0.000E+00
1100 - 1200	6.460E-01	3.080E-01	9.778E-04	9.778E-04	3.230E-01	1.540E-01	4.889E-04	4.889E-04	3.118E-01	1.460E-01	0.000E+00	0.000E+00	7.796E-01	3.650E-01	0.000E+00	0.000E+00	2.166E-04	1.014E-04	0.000E+00	0.000E+00
1200 - 1300	1.110E-01	5.293E-02	9.778E-04	9.778E-04	5.551E-02	2.647E-02	4.889E-04	4.889E-04	3.345E-02	1.558E-02	0.000E+00	0.000E+00	8.363E-02	3.895E-02	0.000E+00	0.000E+00	2.323E-05	1.082E-05	0.000E+00	0.000E+00
1300 - 1400	1.726E+00	8.229E-01	3.422E-03	3.422E-03	8.630E-01	4.114E-01	1.711E-03	1.711E-03	8.820E-01	4.130E-01	0.000E+00	0.000E+00	2.205E+00	1.033E+00	0.000E+00	0.000E+00	6.125E-04	2.868E-04	0.000E+00	0.000E+00
1400 - 1500	2.220E-01	1.059E-01	1.956E-03	1.956E-03	1.110E-01	5.293E-02	9.778E-04	9.778E-04	1.753E-01	8.219E-02	0.000E+00	0.000E+00	4.381E-01	2.055E-01	0.000E+00	0.000E+00	1.217E-04	5.708E-05	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	7.570E-01	3.609E-01	1.956E-03	1.956E-03	3.785E-01	1.805E-01	9.778E-04	9.778E-04	3.453E-01	1.616E-01	0.000E+00	0.000E+00	8.632E-01	4.040E-01	0.000E+00	0.000E+00	2.398E-04	1.122E-04	0.000E+00	0.000E+00
1700 - 1800	2.220E-01	1.059E-01	1.956E-03	1.956E-03	1.110E-01	5.293E-02	9.778E-04	9.778E-04	3.330E-01	1.564E-01	0.000E+00	0.000E+00	8.324E-01	3.909E-01	0.000E+00	0.000E+00	2.312E-04	1.086E-04	0.000E+00	0.000E+00
1800 - 1900	1.080E+00	5.149E-01	2.444E-03	2.444E-03	5.400E-01	2.575E-01	1.222E-03	1.222E-03	7.180E-01	3.366E-01	0.000E+00	0.000E+00	1.795E+00	8.414E-01	0.000E+00	0.000E+00	4.986E-04	2.337E-04	0.000E+00	0.000E+00
1900 - 2000	6.460E-01	3.080E-01	9.778E-04	9.778E-04	3.230E-01	1.540E-01	4.889E-04	4.889E-04	3.118E-01	1.460E-01	0.000E+00	0.000E+00	7.796E-01	3.650E-01	0.000E+00	0.000E+00	2.166E-04	1.014E-04	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (HGV8)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV8							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	2.118E+00	1.010E+00	5.560E-02	5.120E-02
0700 - 0800	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	2.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	2.118E+00	1.010E+00	5.560E-02	5.120E-02
0900 - 1000	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	2.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	2.118E+00	1.010E+00	5.560E-02	5.120E-02
1100 - 1200	2.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	2.118E+00	1.010E+00	5.560E-02	5.120E-02
1200 - 1300	5.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	5.294E+00	2.524E+00	1.390E-01	1.280E-01
1300 - 1400	7.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	7.411E+00	3.534E+00	1.946E-01	1.792E-01
1400 - 1500	4.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	4.235E+00	2.019E+00	1.112E-01	1.024E-01
1500 - 1600	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	4.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	4.235E+00	2.019E+00	1.112E-01	1.024E-01
1700 - 1800	4.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	4.235E+00	2.019E+00	1.112E-01	1.024E-01
1800 - 1900	7.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	7.411E+00	3.534E+00	1.946E-01	1.792E-01
1900 - 2000	2.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	2.118E+00	1.010E+00	5.560E-02	5.120E-02
2000 - 2100	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV8s =	2	min

Hour	Frequency	HGV8							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	3.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	1.665E-01	7.940E-02	1.467E-03	1.467E-03
1300 - 1400	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	1.110E-01	5.293E-02	9.778E-04	9.778E-04
1900 - 2000	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (HGV8)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	4.248E+00	2.015E+00	5.658E-02	5.218E-02	1.180E-03	5.597E-04	1.572E-05	1.449E-05
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	2.262E+00	1.078E+00	5.658E-02	5.218E-02	6.283E-04	2.995E-04	1.572E-05	1.449E-05
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	2.489E+00	1.185E+00	5.658E-02	5.218E-02	6.913E-04	3.291E-04	1.572E-05	1.449E-05
1100 - 1200	3.075E+00	1.464E+00	5.658E-02	5.218E-02	8.543E-04	4.066E-04	1.572E-05	1.449E-05
1200 - 1300	5.605E+00	2.672E+00	1.414E-01	1.304E-01	1.557E-03	7.422E-04	3.929E-05	3.623E-05
1300 - 1400	1.002E+01	4.770E+00	1.980E-01	1.826E-01	2.783E-03	1.325E-03	5.501E-05	5.073E-05
1400 - 1500	4.632E+00	2.207E+00	1.132E-01	1.044E-01	1.287E-03	6.131E-04	3.143E-05	2.899E-05
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	5.337E+00	2.542E+00	1.132E-01	1.044E-01	1.483E-03	7.060E-04	3.143E-05	2.899E-05
1700 - 1800	4.790E+00	2.281E+00	1.132E-01	1.044E-01	1.331E-03	6.337E-04	3.143E-05	2.899E-05
1800 - 1900	9.320E+00	4.438E+00	1.980E-01	1.826E-01	2.589E-03	1.233E-03	5.501E-05	5.073E-05
1900 - 2000	3.075E+00	1.464E+00	5.658E-02	5.218E-02	8.543E-04	4.066E-04	1.572E-05	1.449E-05
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (HGV9_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.760E-02	1.576E-01	2.101E-01	2.977E-01	3.679E-01	4.904E-01	7.181E-01	8.932E-01	1.314E+00	1.716E+00	1.927E+00	2.277E+00	2.505E+00	2.627E+00	2.697E+00	2.767E+00	2.802E+00	2.802E+00
NO_2	4.030E-02	7.260E-02	9.680E-02	1.371E-01	1.693E-01	2.258E-01	3.306E-01	4.113E-01	6.048E-01	7.903E-01	8.871E-01	1.048E+00	1.153E+00	1.210E+00	1.242E+00	1.274E+00	1.290E+00	1.290E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	No. of Cold Starts of HGV9																		Total Starting Emission (g)			
Sitting Time (min)	5	10	20	30	40	50	60	120	180	240	300	360	420	480	540	600	660	720	NO	NO_2	RSP	FSP
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	5.605E+00	2.581E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	6.340E+00	2.919E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	5.605E+00	2.581E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.331E+00	6.128E-01	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.433E+00	1.581E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.869E+00	2.242E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.646E+00	7.580E-01	0.000E+00	0.000E+00
1600 - 1700	2.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.954E-01	2.742E-01	0.000E+00	0.000E+00
1700 - 1800	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.203E+00	1.935E+00	0.000E+00	0.000E+00
1800 - 1900	3.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.986E-01	4.595E-01	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.433E+00	1.581E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (HGV9_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV9s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV9 (Diesel)									HGV9 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	6.703E-01	3.135E-01	1.234E-03	1.234E-03	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	2.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	6.703E-01	3.135E-01	1.234E-03	1.234E-03	4.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	2.772E-01	1.297E-01	2.467E-03	2.467E-03
0900 - 1000	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	2.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	6.703E-01	3.135E-01	1.234E-03	1.234E-03	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	2.772E-01	1.297E-01	2.467E-03	2.467E-03
1300 - 1400	2.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	6.703E-01	3.135E-01	1.234E-03	1.234E-03	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	4.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	1.341E+00	6.271E-01	2.467E-03	2.467E-03	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	4.158E-01	1.945E-01	3.701E-03	3.701E-03
1600 - 1700	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	2.772E-01	1.297E-01	2.467E-03	2.467E-03
1700 - 1800	2.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	6.703E-01	3.135E-01	1.234E-03	1.234E-03	4.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	2.772E-01	1.297E-01	2.467E-03	2.467E-03
1800 - 1900	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	3.465E-01	1.621E-01	3.084E-03	3.084E-03
1900 - 2000	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	6.703E-01	3.135E-01	1.234E-03	1.234E-03	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	6.703E-01	3.135E-01	1.234E-03	1.234E-03	3.352E-01	1.568E-01	6.169E-04	6.169E-04	1.506E+00	6.925E-01	0.000E+00	0.000E+00	3.764E+00	1.731E+00	0.000E+00	0.000E+00	1.046E-03	4.809E-04	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	9.475E-01	4.432E-01	3.701E-03	3.701E-03	4.738E-01	2.216E-01	1.851E-03	1.851E-03	1.676E+00	7.708E-01	0.000E+00	0.000E+00	4.190E+00	1.927E+00	0.000E+00	0.000E+00	1.164E-03	5.353E-04	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	6.703E-01	3.135E-01	1.234E-03	1.234E-03	3.352E-01	1.568E-01	6.169E-04	6.169E-04	1.506E+00	6.925E-01	0.000E+00	0.000E+00	3.764E+00	1.731E+00	0.000E+00	0.000E+00	1.046E-03	4.809E-04	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	2.772E-01	1.297E-01	2.467E-03	2.467E-03	1.386E-01	6.483E-02	1.234E-03	1.234E-03	3.407E-01	1.566E-01	0.000E+00	0.000E+00	8.519E-01	3.914E-01	0.000E+00	0.000E+00	2.366E-04	1.087E-04	0.000E+00	0.000E+00
1300 - 1400	6.703E-01	3.135E-01	1.234E-03	1.234E-03	3.352E-01	1.568E-01	6.169E-04	6.169E-04	8.850E-01	4.068E-01	0.000E+00	0.000E+00	2.213E+00	1.017E+00	0.000E+00	0.000E+00	6.146E-04	2.825E-04	0.000E+00	0.000E+00
1400 - 1500	1.341E+00	6.271E-01	2.467E-03	2.467E-03	6.703E-01	3.135E-01	1.234E-03	1.234E-03	1.200E+00	5.509E-01	0.000E+00	0.000E+00	2.999E+00	1.377E+00	0.000E+00	0.000E+00	8.331E-04	3.826E-04	0.000E+00	0.000E+00
1500 - 1600	4.158E-01	1.945E-01	3.701E-03	3.701E-03	2.079E-01	9.725E-02	1.851E-03	1.851E-03	4.110E-01	1.888E-01	0.000E+00	0.000E+00	1.027E+00	4.720E-01	0.000E+00	0.000E+00	2.854E-04	1.311E-04	0.000E+00	0.000E+00
1600 - 1700	2.772E-01	1.297E-01	2.467E-03	2.467E-03	1.386E-01	6.483E-02	1.234E-03	1.234E-03	1.305E-01	5.982E-02	0.000E+00	0.000E+00	3.263E-01	1.495E-01	0.000E+00	0.000E+00	9.063E-05	4.154E-05	0.000E+00	0.000E+00
1700 - 1800	9.475E-01	4.432E-01	3.701E-03	3.701E-03	4.738E-01	2.216E-01	1.851E-03	1.851E-03	1.066E+00	4.897E-01	0.000E+00	0.000E+00	2.664E+00	1.224E+00	0.000E+00	0.000E+00	7.400E-04	3.400E-04	0.000E+00	0.000E+00
1800 - 1900	3.465E-01	1.621E-01	3.084E-03	3.084E-03	1.733E-01	8.104E-02	1.542E-03	1.542E-03	2.358E-01	1.081E-01	0.000E+00	0.000E+00	5.895E-01	2.703E-01	0.000E+00	0.000E+00	1.638E-04	7.509E-05	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	6.703E-01	3.135E-01	1.234E-03	1.234E-03	3.352E-01	1.568E-01	6.169E-04	6.169E-04	8.850E-01	4.068E-01	0.000E+00	0.000E+00	2.213E+00	1.017E+00	0.000E+00	0.000E+00	6.146E-04	2.825E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (HGV9)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV9							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	2.158E+00	1.010E+00	5.368E-02	4.936E-02
0700 - 0800	2.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	2.158E+00	1.010E+00	5.368E-02	4.936E-02
0800 - 0900	6.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	6.475E+00	3.029E+00	1.610E-01	1.481E-01
0900 - 1000	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	2.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	2.158E+00	1.010E+00	5.368E-02	4.936E-02
1100 - 1200	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	6.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	6.475E+00	3.029E+00	1.610E-01	1.481E-01
1300 - 1400	2.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	2.158E+00	1.010E+00	5.368E-02	4.936E-02
1400 - 1500	4.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	4.316E+00	2.019E+00	1.074E-01	9.872E-02
1500 - 1600	9.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	9.712E+00	4.543E+00	2.416E-01	2.221E-01
1600 - 1700	4.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	4.316E+00	2.019E+00	1.074E-01	9.872E-02
1700 - 1800	6.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	6.475E+00	3.029E+00	1.610E-01	1.481E-01
1800 - 1900	5.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	5.396E+00	2.524E+00	1.342E-01	1.234E-01
1900 - 2000	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	2.158E+00	1.010E+00	5.368E-02	4.936E-02
2100 - 2200	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV9s =	2	min

Hour	Frequency	HGV9							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	2.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	1.386E-01	6.483E-02	1.234E-03	1.234E-03
0800 - 0900	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	2.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	1.386E-01	6.483E-02	1.234E-03	1.234E-03
1300 - 1400	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	3.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	2.079E-01	9.725E-02	1.851E-03	1.851E-03
1600 - 1700	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Mega Wheel Warehouse (巨輪集團) (HGV9)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	4.334E+00	2.016E+00	5.491E-02	5.059E-02	1.204E-03	5.599E-04	1.525E-05	1.405E-05
0700 - 0800	2.297E+00	1.074E+00	5.491E-02	5.059E-02	6.380E-04	2.984E-04	1.525E-05	1.405E-05
0800 - 0900	9.098E+00	4.243E+00	1.647E-01	1.518E-01	2.527E-03	1.178E-03	4.576E-05	4.216E-05
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	4.334E+00	2.016E+00	5.491E-02	5.059E-02	1.204E-03	5.599E-04	1.525E-05	1.405E-05
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	7.231E+00	3.380E+00	1.647E-01	1.518E-01	2.009E-03	9.388E-04	4.576E-05	4.216E-05
1300 - 1400	3.714E+00	1.730E+00	5.491E-02	5.059E-02	1.032E-03	4.805E-04	1.525E-05	1.405E-05
1400 - 1500	6.857E+00	3.197E+00	1.098E-01	1.012E-01	1.905E-03	8.881E-04	3.051E-05	2.811E-05
1500 - 1600	1.075E+01	5.023E+00	2.471E-01	2.277E-01	2.985E-03	1.395E-03	6.864E-05	6.324E-05
1600 - 1700	4.724E+00	2.209E+00	1.098E-01	1.012E-01	1.312E-03	6.135E-04	3.051E-05	2.811E-05
1700 - 1800	8.488E+00	3.961E+00	1.647E-01	1.518E-01	2.358E-03	1.100E-03	4.576E-05	4.216E-05
1800 - 1900	5.978E+00	2.794E+00	1.373E-01	1.265E-01	1.661E-03	7.761E-04	3.813E-05	3.513E-05
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	3.714E+00	1.730E+00	5.491E-02	5.059E-02	1.032E-03	4.805E-04	1.525E-05	1.405E-05
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC_Diesel)

Starting Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio =		0.02

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of PC_Diesel**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC_Diesel)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	PC (Diesel)									PC (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.01	4.020E-02	5.885E-03	9.153E-04	9.153E-04	1.197E-03	1.752E-04	2.725E-05	2.725E-05	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.01	4.020E-02	5.885E-03	9.153E-04	9.153E-04	1.197E-03	1.752E-04	2.725E-05	2.725E-05	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.03	4.020E-02	5.885E-03	9.153E-04	9.153E-04	2.393E-03	3.503E-04	5.449E-05	5.449E-05	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.01	4.020E-02	5.885E-03	9.153E-04	9.153E-04	1.197E-03	1.752E-04	2.725E-05	2.725E-05
1800 - 1900	0.04	4.020E-02	5.885E-03	9.153E-04	9.153E-04	3.590E-03	5.255E-04	8.174E-05	8.174E-05	0.04	4.020E-02	5.885E-03	9.153E-04	9.153E-04	3.590E-03	5.255E-04	8.174E-05	8.174E-05
1900 - 2000	0.01	4.020E-02	5.885E-03	9.153E-04	9.153E-04	1.197E-03	1.752E-04	2.725E-05	2.725E-05	0.01	4.020E-02	5.885E-03	9.153E-04	9.153E-04	1.197E-03	1.752E-04	2.725E-05	2.725E-05
2000 - 2100	0.03	4.020E-02	5.885E-03	9.153E-04	9.153E-04	2.393E-03	3.503E-04	5.449E-05	5.449E-05	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.197E-03	1.752E-04	2.725E-05	2.725E-05	5.983E-04	8.759E-05	1.362E-05	1.362E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.197E-03	1.752E-04	2.725E-05	2.725E-05	5.983E-04	8.759E-05	1.362E-05	1.362E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.393E-03	3.503E-04	5.449E-05	5.449E-05	1.197E-03	1.752E-04	2.725E-05	2.725E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.197E-03	1.752E-04	2.725E-05	2.725E-05	5.983E-04	8.759E-05	1.362E-05	1.362E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	7.180E-03	1.051E-03	1.635E-04	1.635E-04	3.590E-03	5.255E-04	8.174E-05	8.174E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	2.393E-03	3.503E-04	5.449E-05	5.449E-05	1.197E-03	1.752E-04	2.725E-05	2.725E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.393E-03	3.503E-04	5.449E-05	5.449E-05	1.197E-03	1.752E-04	2.725E-05	2.725E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC_Petrol)

Starting Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio =		0.02

	Starting Emission Factor (g/trip)																	
NO	5.381E-02	5.471E-02	5.651E-02	5.821E-02	5.992E-02	6.152E-02	6.302E-02	7.012E-02	7.962E-02	7.892E-02	7.792E-02	7.632E-02	7.432E-02	7.191E-02	6.901E-02	6.561E-02	6.181E-02	5.761E-02
NO_2	2.801E-03	2.901E-03	3.001E-03	3.101E-03	3.201E-03	3.201E-03	3.301E-03	3.701E-03	4.201E-03	4.201E-03	4.101E-03	4.001E-03	3.901E-03	3.801E-03	3.601E-03	3.501E-03	3.300E-03	3.000E-03
RSP	4.003E-04	8.003E-04	1.500E-03	2.300E-03	3.000E-03	3.600E-03	4.300E-03	7.100E-03	7.900E-03	8.700E-03	9.300E-03	9.901E-03	1.040E-02	1.080E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.003E-04	7.002E-04	1.400E-03	2.100E-03	2.700E-03	3.400E-03	3.900E-03	6.500E-03	7.300E-03	8.000E-03	8.700E-03	9.200E-03	9.600E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	**No. of Cold Starts of PC_Petrol**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	1.97	0.00	0.99	0.00	0.00	1.97	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.99
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	Total Starting Emission (g)			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	6.089E-02	3.251E-03	1.113E-02	1.034E-02
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	6.208E-02	3.252E-03	4.236E-03	3.842E-03
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.529E-01	8.080E-03	1.832E-02	1.694E-02
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	5.301E-02	2.759E-03	3.944E-04	3.943E-04
1800 - 1900	3.863E-01	2.050E-02	2.847E-02	2.611E-02
1900 - 2000	1.264E-01	6.701E-03	9.260E-03	8.472E-03
2000 - 2100	1.214E-01	6.404E-03	2.217E-02	2.059E-02
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC_Petrol)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	PC (Petrol)									PC (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.99	1.306E-03	6.826E-05	1.223E-05	1.223E-05	2.573E-03	1.345E-04	2.409E-05	2.409E-05	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.99	1.306E-03	6.826E-05	1.223E-05	1.223E-05	2.573E-03	1.345E-04	2.409E-05	2.409E-05
1200 - 1300	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.97	1.306E-03	6.826E-05	1.223E-05	1.223E-05	5.145E-03	2.690E-04	4.819E-05	4.819E-05	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.99	1.306E-03	6.826E-05	1.223E-05	1.223E-05	2.573E-03	1.345E-04	2.409E-05	2.409E-05
1800 - 1900	0.99	1.306E-03	6.826E-05	1.223E-05	1.223E-05	2.573E-03	1.345E-04	2.409E-05	2.409E-05	4.93	1.306E-03	6.826E-05	1.223E-05	1.223E-05	1.286E-02	6.724E-04	1.205E-04	1.205E-04
1900 - 2000	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.97	1.306E-03	6.826E-05	1.223E-05	1.223E-05	5.145E-03	2.690E-04	4.819E-05	4.819E-05
2000 - 2100	1.97	1.306E-03	6.826E-05	1.223E-05	1.223E-05	5.145E-03	2.690E-04	4.819E-05	4.819E-05	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.573E-03	1.345E-04	2.409E-05	2.409E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.089E-02	3.251E-03	1.113E-02	1.034E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	2.573E-03	1.345E-04	2.409E-05	2.409E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.208E-02	3.252E-03	4.236E-03	3.842E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	5.145E-03	2.690E-04	4.819E-05	4.819E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.529E-01	8.080E-03	1.832E-02	1.694E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	2.573E-03	1.345E-04	2.409E-05	2.409E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.301E-02	2.759E-03	3.944E-04	3.943E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.544E-02	8.069E-04	1.446E-04	1.446E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.863E-01	2.050E-02	2.847E-02	2.611E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	5.145E-03	2.690E-04	4.819E-05	4.819E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.264E-01	6.701E-03	9.260E-03	8.472E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	5.145E-03	2.690E-04	4.819E-05	4.819E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.214E-01	6.404E-03	2.217E-02	2.059E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	PC								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	1.326E-02	7.200E-04	2.880E-03	2.670E-03
0700 - 0800	1.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	1.326E-02	7.200E-04	2.880E-03	2.670E-03
0800 - 0900	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	1.326E-02	7.200E-04	2.880E-03	2.670E-03
1100 - 1200	1.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	1.326E-02	7.200E-04	2.880E-03	2.670E-03
1200 - 1300	1.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	1.326E-02	7.200E-04	2.880E-03	2.670E-03
1300 - 1400	3.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	3.978E-02	2.160E-03	8.640E-03	8.010E-03
1400 - 1500	1.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	1.326E-02	7.200E-04	2.880E-03	2.670E-03
1500 - 1600	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	2.652E-02	1.440E-03	5.760E-03	5.340E-03
1700 - 1800	2.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	2.652E-02	1.440E-03	5.760E-03	5.340E-03
1800 - 1900	6.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	7.956E-02	4.320E-03	1.728E-02	1.602E-02
1900 - 2000	2.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	2.652E-02	1.440E-03	5.760E-03	5.340E-03
2000 - 2100	2.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	2.652E-02	1.440E-03	5.760E-03	5.340E-03
2100 - 2200	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.420E-02	2.400E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio [1] =	0.02	
Idling Time for Non-terminating PCs =	0.5	min

Hour	PC (Diesel)									PC (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.01	4.020E-02	5.885E-03	9.153E-04	9.153E-04	2.992E-04	4.379E-05	6.812E-06	6.812E-06	1	1.306E-03	6.826E-05	1.223E-05	1.223E-05	6.432E-04	3.362E-05	6.023E-06	6.023E-06
0800 - 0900	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.01	4.020E-02	5.885E-03	9.153E-04	9.153E-04	2.992E-04	4.379E-05	6.812E-06	6.812E-06	1	1.306E-03	6.826E-05	1.223E-05	1.223E-05	6.432E-04	3.362E-05	6.023E-06	6.023E-06
1100 - 1200	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.01	4.020E-02	5.885E-03	9.153E-04	9.153E-04	2.992E-04	4.379E-05	6.812E-06	6.812E-06	1	1.306E-03	6.826E-05	1.223E-05	1.223E-05	6.432E-04	3.362E-05	6.023E-06	6.023E-06
1300 - 1400	0.01	4.020E-02	5.885E-03	9.153E-04	9.153E-04	2.992E-04	4.379E-05	6.812E-06	6.812E-06	1	1.306E-03	6.826E-05	1.223E-05	1.223E-05	6.432E-04	3.362E-05	6.023E-06	6.023E-06
1400 - 1500	0.01	4.020E-02	5.885E-03	9.153E-04	9.153E-04	2.992E-04	4.379E-05	6.812E-06	6.812E-06	1	1.306E-03	6.826E-05	1.223E-05	1.223E-05	6.432E-04	3.362E-05	6.023E-06	6.023E-06
1500 - 1600	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.03	4.020E-02	5.885E-03	9.153E-04	9.153E-04	5.983E-04	8.759E-05	1.362E-05	1.362E-05	2	1.306E-03	6.826E-05	1.223E-05	1.223E-05	1.286E-03	6.724E-05	1.205E-05	1.205E-05
1700 - 1800	0.01	4.020E-02	5.885E-03	9.153E-04	9.153E-04	2.992E-04	4.379E-05	6.812E-06	6.812E-06	1	1.306E-03	6.826E-05	1.223E-05	1.223E-05	6.432E-04	3.362E-05	6.023E-06	6.023E-06
1800 - 1900	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.020E-02	5.885E-03	9.153E-04	9.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.306E-03	6.826E-05	1.223E-05	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of PC (Diesel) to PC (Petrol) was extracted from Year 2034 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	7.792E-02	4.281E-03	1.406E-02	1.307E-02	2.164E-05	1.189E-06	3.907E-06	3.629E-06
0700 - 0800	1.420E-02	7.974E-04	2.893E-03	2.683E-03	3.945E-06	2.215E-07	8.036E-07	7.452E-07
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.420E-02	7.974E-04	2.893E-03	2.683E-03	3.945E-06	2.215E-07	8.036E-07	7.452E-07
1100 - 1200	7.911E-02	4.281E-03	7.167E-03	6.563E-03	2.197E-05	1.189E-06	1.991E-06	1.823E-06
1200 - 1300	1.420E-02	7.974E-04	2.893E-03	2.683E-03	3.945E-06	2.215E-07	8.036E-07	7.452E-07
1300 - 1400	2.012E-01	1.094E-02	2.708E-02	2.507E-02	5.588E-05	3.038E-06	7.522E-06	6.964E-06
1400 - 1500	1.420E-02	7.974E-04	2.893E-03	2.683E-03	3.945E-06	2.215E-07	8.036E-07	7.452E-07
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.840E-02	1.595E-03	5.786E-03	5.366E-03	7.890E-06	4.430E-07	1.607E-06	1.490E-06
1700 - 1800	8.424E-02	4.586E-03	6.219E-03	5.798E-03	2.340E-05	1.274E-06	1.727E-06	1.611E-06
1800 - 1900	4.884E-01	2.667E-02	4.606E-02	4.243E-02	1.357E-04	7.409E-06	1.279E-05	1.179E-05
1900 - 2000	1.605E-01	8.760E-03	1.512E-02	1.391E-02	4.458E-05	2.433E-06	4.201E-06	3.865E-06
2000 - 2100	1.554E-01	8.464E-03	2.803E-02	2.603E-02	4.318E-05	2.351E-06	7.786E-06	7.231E-06
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi_LPG)

Starting Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio =		53996.70

	Starting Emission Factor (g/trip)																	
NO	1.006E+00	1.023E+00	1.055E+00	1.087E+00	1.117E+00	1.147E+00	1.175E+00	1.308E+00	1.485E+00	1.473E+00	1.453E+00	1.424E+00	1.386E+00	1.340E+00	1.286E+00	1.223E+00	1.152E+00	1.073E+00
NO_2	2.820E-02	2.870E-02	2.960E-02	3.050E-02	3.140E-02	3.220E-02	3.300E-02	3.670E-02	4.170E-02	4.130E-02	4.080E-02	3.990E-02	3.890E-02	3.760E-02	3.610E-02	3.430E-02	3.230E-02	3.010E-02
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of Taxi_LPG**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi_LPG)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (LPG)									Taxi (LPG)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.635E-01	4.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi_Petrol)

Starting Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio =		53996.70

	Starting Emission Factor (g/trip)																	
NO	7.790E-02	7.910E-02	8.170E-02	8.420E-02	8.640E-02	8.870E-02	9.090E-02	1.013E-01	1.149E-01	1.140E-01	1.125E-01	1.102E-01	1.073E-01	1.037E-01	9.960E-02	9.470E-02	8.920E-02	8.300E-02
NO_2	4.100E-03	4.200E-03	4.300E-03	4.400E-03	4.600E-03	4.700E-03	4.800E-03	5.300E-03	6.100E-03	6.000E-03	5.900E-03	5.800E-03	5.600E-03	5.500E-03	5.200E-03	5.000E-03	4.700E-03	4.400E-03
RSP	4.000E-04	8.000E-04	1.500E-03	2.300E-03	3.000E-03	3.600E-03	4.200E-03	7.000E-03	7.900E-03	8.700E-03	9.300E-03	9.900E-03	1.040E-02	1.070E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.000E-04	7.000E-04	1.400E-03	2.100E-03	2.700E-03	3.400E-03	3.900E-03	6.500E-03	7.300E-03	8.000E-03	8.700E-03	9.200E-03	9.600E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	**No. of Cold Starts of Taxi_Petrol**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi_Petrol)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (Petrol)									Taxi (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	Taxi								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	2.813E-01	7.890E-03	0.000E+00	0.000E+00
1900 - 2000	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	9.377E-01	2.630E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio [1] =	53996.70	
Idling Time for Non-terminating Taxi =	0.5	min

Hour	Taxi (LPG)									Taxi (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	1.062E-01	2.979E-03	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	1.526E-08	7.917E-10	2.006E-09	2.006E-09
1900 - 2000	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.125E-01	5.959E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of Taxi (LPG) to Taxi (Petrol) was extracted from Year 2034 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	3.876E-01	1.087E-02	2.006E-09	2.006E-09	1.077E-04	3.019E-06	5.573E-13	5.573E-13
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3_Diesel)

Starting Emission

No. of LGV3 (Diesel) to No. of LGV3 (Petrol) Ratio =		29.60

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of LGV3_Diesel**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV3 (Diesel)									LGV3 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.97	2.703E-02	1.598E-03	4.333E-04	4.333E-04	5.229E-02	3.091E-03	8.383E-04	8.383E-04
1500 - 1600	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.97	2.703E-02	1.598E-03	4.333E-04	4.333E-04	5.229E-02	3.091E-03	8.383E-04	8.383E-04
1800 - 1900	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	5.229E-02	3.091E-03	8.383E-04	8.383E-04	2.615E-02	1.545E-03	4.192E-04	4.192E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	5.229E-02	3.091E-03	8.383E-04	8.383E-04	2.615E-02	1.545E-03	4.192E-04	4.192E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3_Petrol)

Starting Emission

No. of LGV3 (Diesel) to No. of LGV3 (Petrol) Ratio =		29.60

	Starting Emission Factor (g/trip)																	
NO	3.890E-02	4.360E-02	5.190E-02	5.870E-02	6.420E-02	6.830E-02	7.110E-02	7.720E-02	8.540E-02	8.480E-02	8.390E-02	8.270E-02	8.100E-02	7.900E-02	7.680E-02	7.420E-02	7.130E-02	6.790E-02
NO_2	2.100E-03	2.300E-03	2.700E-03	3.100E-03	3.400E-03	3.600E-03	3.700E-03	4.100E-03	4.500E-03	4.500E-03	4.400E-03	4.300E-03	4.300E-03	4.200E-03	4.000E-03	3.900E-03	3.700E-03	3.600E-03
RSP	1.000E-04	2.000E-04	4.000E-04	5.000E-04	7.000E-04	8.000E-04	9.000E-04	1.300E-03	1.400E-03	1.400E-03	1.500E-03	1.500E-03	1.600E-03	1.600E-03	1.700E-03	1.700E-03	1.800E-03	1.800E-03
FSP	1.000E-04	2.000E-04	3.000E-04	5.000E-04	6.000E-04	7.000E-04	8.000E-04	1.200E-03	1.300E-03	1.300E-03	1.400E-03	1.400E-03	1.500E-03	1.500E-03	1.600E-03	1.600E-03	1.600E-03	1.700E-03

Hour	**No. of Cold Starts of LGV3_Petrol**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.425E-03	7.517E-05	6.536E-06	6.536E-06
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.271E-03	6.863E-05	3.268E-06	3.268E-06
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Ratio
Height

Avg Height

Rel Height

Sz

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3_Petrol)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	LGV3 (Petrol)									LGV3 (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	1.860E-03	9.791E-05	4.056E-06	4.056E-06	1.216E-04	6.400E-06	2.651E-07	2.651E-07
1500 - 1600	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	1.860E-03	9.791E-05	4.056E-06	4.056E-06	1.216E-04	6.400E-06	2.651E-07	2.651E-07
1800 - 1900	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.216E-04	6.400E-06	2.651E-07	2.651E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.425E-03	7.517E-05	6.536E-06	6.536E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.216E-04	6.400E-06	2.651E-07	2.651E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.271E-03	6.863E-05	3.268E-06	3.268E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	Frequency	LGV3							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	4.935E-01	2.916E-02	4.410E-03	4.050E-03
0700 - 0800	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	9.871E-01	5.832E-02	8.820E-03	8.100E-03
1000 - 1100	1.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	4.935E-01	2.916E-02	4.410E-03	4.050E-03
1100 - 1200	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	4.935E-01	2.916E-02	4.410E-03	4.050E-03
1500 - 1600	1.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	4.935E-01	2.916E-02	4.410E-03	4.050E-03
1600 - 1700	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	4.935E-01	2.916E-02	4.410E-03	4.050E-03
1800 - 1900	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	4.935E-01	2.916E-02	4.410E-03	4.050E-03
2100 - 2200	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.645E+00	9.720E-02	1.470E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of LGV3 (Diesel) to No. of LGV3 (LPG) Ratio [1] =	29.60	
Idling Time for Non-terminating LGV3s =	0.5	min

Hour	Frequency	LGV3 (Diesel)								Frequency	LGV3 (Petrol)							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)					Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.97	2.703E-02	1.598E-03	4.333E-04	4.333E-04	1.307E-02	7.727E-04	2.096E-04	2.096E-04	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	3.040E-05	1.600E-06	6.627E-08	6.627E-08
0700 - 0800	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.93	2.703E-02	1.598E-03	4.333E-04	4.333E-04	2.615E-02	1.545E-03	4.192E-04	4.192E-04	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	6.080E-05	3.200E-06	1.325E-07	1.325E-07
1000 - 1100	0.97	2.703E-02	1.598E-03	4.333E-04	4.333E-04	1.307E-02	7.727E-04	2.096E-04	2.096E-04	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	3.040E-05	1.600E-06	6.627E-08	6.627E-08
1100 - 1200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.97	2.703E-02	1.598E-03	4.333E-04	4.333E-04	1.307E-02	7.727E-04	2.096E-04	2.096E-04	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	3.040E-05	1.600E-06	6.627E-08	6.627E-08
1600 - 1700	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.97	2.703E-02	1.598E-03	4.333E-04	4.333E-04	1.307E-02	7.727E-04	2.096E-04	2.096E-04	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	3.040E-05	1.600E-06	6.627E-08	6.627E-08
2100 - 2200	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.703E-02	1.598E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.860E-03	9.791E-05	4.056E-06	4.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of LGV3 (Diesel) to LGV3 (Petrol) was extracted from Year 2034 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	5.066E-01	2.993E-02	4.620E-03	4.260E-03	1.407E-04	8.315E-06	1.283E-06	1.183E-06
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.013E+00	5.987E-02	9.239E-03	8.519E-03	2.815E-04	1.663E-05	2.566E-06	2.366E-06
1000 - 1100	5.066E-01	2.993E-02	4.620E-03	4.260E-03	1.407E-04	8.315E-06	1.283E-06	1.183E-06
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	5.474E-01	3.233E-02	5.255E-03	4.895E-03	1.520E-04	8.981E-06	1.460E-06	1.360E-06
1500 - 1600	5.066E-01	2.993E-02	4.620E-03	4.260E-03	1.407E-04	8.315E-06	1.283E-06	1.183E-06
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	5.472E-01	3.233E-02	5.252E-03	4.892E-03	1.520E-04	8.979E-06	1.459E-06	1.359E-06
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	5.066E-01	2.993E-02	4.620E-03	4.260E-03	1.407E-04	8.315E-06	1.283E-06	1.183E-06
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV6_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	4.900E-02	8.810E-02	1.175E-01	1.665E-01	2.057E-01	2.742E-01	4.016E-01	4.995E-01	7.346E-01	9.599E-01	1.077E+00	1.273E+00	1.401E+00	1.469E+00	1.508E+00	1.548E+00	1.567E+00	1.567E+00
NO_2	1.900E-02	3.430E-02	4.570E-02	6.480E-02	8.000E-02	1.067E-01	1.562E-01	1.943E-01	2.857E-01	3.733E-01	4.190E-01	4.952E-01	5.447E-01	5.714E-01	5.866E-01	6.018E-01	6.094E-01	6.094E-01
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of LGV6**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.469E+00	5.714E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.810E-02	3.430E-02	0.000E+00	0.000E+00
4.016E-01	1.562E-01	0.000E+00	0.000E+00
9.800E-02	3.800E-02	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
4.016E-01	1.562E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.362E+00	5.295E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.175E-01	4.570E-02	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.548E+00	6.018E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV6_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV6s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV6 (Diesel)									LGV6 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	8.803E-02	3.424E-02	4.269E-04	4.269E-04	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	5.208E-02	2.025E-02	4.269E-04	4.269E-04
1000 - 1100	1.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	8.803E-02	3.424E-02	4.269E-04	4.269E-04	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	1.042E-01	4.051E-02	8.538E-04	8.538E-04
1200 - 1300	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	8.803E-02	3.424E-02	4.269E-04	4.269E-04	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	2.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	1.761E-01	6.847E-02	8.538E-04	8.538E-04	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	5.208E-02	2.025E-02	4.269E-04	4.269E-04
1800 - 1900	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	8.803E-02	3.424E-02	4.269E-04	4.269E-04	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.402E-02	1.712E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	8.803E-02	3.424E-02	4.269E-04	4.269E-04	4.402E-02	1.712E-02	2.134E-04	2.134E-04	3.054E-01	1.188E-01	0.000E+00	0.000E+00	1.120E+00	4.355E-01	0.000E+00	0.000E+00	3.111E-04	1.210E-04	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	5.208E-02	2.025E-02	4.269E-04	4.269E-04	2.604E-02	1.013E-02	2.134E-04	2.134E-04	1.330E-02	5.180E-03	0.000E+00	0.000E+00	4.876E-02	1.899E-02	0.000E+00	0.000E+00	1.355E-05	5.276E-06	0.000E+00	0.000E+00
1000 - 1100	8.803E-02	3.424E-02	4.269E-04	4.269E-04	4.402E-02	1.712E-02	2.134E-04	2.134E-04	7.663E-02	2.980E-02	0.000E+00	0.000E+00	2.810E-01	1.093E-01	0.000E+00	0.000E+00	7.804E-05	3.036E-05	0.000E+00	0.000E+00
1100 - 1200	1.042E-01	4.051E-02	8.538E-04	8.538E-04	5.208E-02	2.025E-02	4.269E-04	4.269E-04	9.841E-03	3.803E-03	0.000E+00	0.000E+00	3.608E-02	1.394E-02	0.000E+00	0.000E+00	1.002E-05	3.873E-06	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	8.803E-02	3.424E-02	4.269E-04	4.269E-04	4.402E-02	1.712E-02	2.134E-04	2.134E-04	7.663E-02	2.980E-02	0.000E+00	0.000E+00	2.810E-01	1.093E-01	0.000E+00	0.000E+00	7.804E-05	3.036E-05	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	1.761E-01	6.847E-02	8.538E-04	8.538E-04	8.803E-02	3.424E-02	4.269E-04	4.269E-04	2.729E-01	1.061E-01	0.000E+00	0.000E+00	1.001E+00	3.891E-01	0.000E+00	0.000E+00	2.779E-04	1.081E-04	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	5.208E-02	2.025E-02	4.269E-04	4.269E-04	2.604E-02	1.013E-02	2.134E-04	2.134E-04	1.960E-02	7.623E-03	0.000E+00	0.000E+00	7.186E-02	2.795E-02	0.000E+00	0.000E+00	1.996E-05	7.764E-06	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	8.803E-02	3.424E-02	4.269E-04	4.269E-04	4.402E-02	1.712E-02	2.134E-04	2.134E-04	3.222E-01	1.253E-01	0.000E+00	0.000E+00	1.181E+00	4.594E-01	0.000E+00	0.000E+00	3.282E-04	1.276E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV6)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	Frequency	LGV6 Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	2.182E-01	8.487E-02	6.270E-03	5.760E-03
0800 - 0900	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	2.182E-01	8.487E-02	6.270E-03	5.760E-03
1000 - 1100	1.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	2.182E-01	8.487E-02	6.270E-03	5.760E-03
1100 - 1200	3.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	6.547E-01	2.546E-01	1.881E-02	1.728E-02
1200 - 1300	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	4.364E-01	1.697E-01	1.254E-02	1.152E-02
1400 - 1500	1.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	2.182E-01	8.487E-02	6.270E-03	5.760E-03
1500 - 1600	2.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	4.364E-01	1.697E-01	1.254E-02	1.152E-02
1600 - 1700	1.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	2.182E-01	8.487E-02	6.270E-03	5.760E-03
1700 - 1800	1.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	2.182E-01	8.487E-02	6.270E-03	5.760E-03
1800 - 1900	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	2.182E-01	8.487E-02	6.270E-03	5.760E-03
2100 - 2200	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	7.274E-01	2.829E-01	2.090E-02	1.920E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating LGV6s =	2	min

Hour	Frequency	LGV6 Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	5.208E-02	2.025E-02	4.269E-04	4.269E-04
1200 - 1300	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	5.208E-02	2.025E-02	4.269E-04	4.269E-04
1400 - 1500	1.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	5.208E-02	2.025E-02	4.269E-04	4.269E-04
1500 - 1600	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	5.208E-02	2.025E-02	4.269E-04	4.269E-04
1700 - 1800	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.604E-02	1.013E-02	2.134E-04	2.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV6)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	6.116E-01	2.379E-01	6.697E-03	6.187E-03	1.699E-04	6.608E-05	1.860E-06	1.719E-06
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.836E-01	1.103E-01	6.697E-03	6.187E-03	7.878E-05	3.064E-05	1.860E-06	1.719E-06
1000 - 1100	3.829E-01	1.489E-01	6.697E-03	6.187E-03	1.064E-04	4.136E-05	1.860E-06	1.719E-06
1100 - 1200	8.207E-01	3.192E-01	2.009E-02	1.856E-02	2.280E-04	8.866E-05	5.581E-06	5.156E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	6.532E-01	2.540E-01	1.339E-02	1.237E-02	1.814E-04	7.057E-05	3.720E-06	3.437E-06
1400 - 1500	2.703E-01	1.051E-01	6.697E-03	6.187E-03	7.508E-05	2.920E-05	1.860E-06	1.719E-06
1500 - 1600	8.854E-01	3.443E-01	1.339E-02	1.237E-02	2.459E-04	9.565E-05	3.720E-06	3.437E-06
1600 - 1700	2.703E-01	1.051E-01	6.697E-03	6.187E-03	7.508E-05	2.920E-05	1.860E-06	1.719E-06
1700 - 1800	2.899E-01	1.127E-01	6.697E-03	6.187E-03	8.053E-05	3.132E-05	1.860E-06	1.719E-06
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	6.284E-01	2.444E-01	6.697E-03	6.187E-03	1.746E-04	6.789E-05	1.860E-06	1.719E-06
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV7_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.610E-02	1.550E-01	2.067E-01	2.928E-01	3.617E-01	4.823E-01	7.062E-01	8.785E-01	1.292E+00	1.688E+00	1.895E+00	2.239E+00	2.463E+00	2.584E+00	2.653E+00	2.722E+00	2.756E+00	2.756E+00
NO_2	4.230E-02	7.610E-02	1.015E-01	1.438E-01	1.776E-01	2.368E-01	3.468E-01	4.313E-01	6.343E-01	8.288E-01	9.303E-01	1.100E+00	1.209E+00	1.269E+00	1.303E+00	1.336E+00	1.353E+00	1.353E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of HGV7**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
0900 - 1000	1.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
1000 - 1100	1.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	1.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
1500 - 1600	2.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.756E+00	1.353E+00	0.000E+00	0.000E+00
5.512E+00	2.706E+00	0.000E+00	0.000E+00
5.977E+00	2.935E+00	0.000E+00	0.000E+00
6.717E-01	3.299E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
6.373E-01	3.129E-01	0.000E+00	0.000E+00
3.548E+00	1.742E+00	0.000E+00	0.000E+00
8.784E-01	4.314E-01	0.000E+00	0.000E+00
3.789E-01	1.861E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
6.545E-01	3.214E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV7_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV7s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV7 (Diesel)									HGV7 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	4.761E-01	2.319E-01	4.549E-04	4.549E-04	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	2.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	9.523E-01	4.637E-01	9.098E-04	9.098E-04	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	9.523E-01	4.637E-01	9.098E-04	9.098E-04	3.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	1.522E-01	7.412E-02	1.365E-03	1.365E-03
1000 - 1100	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	1.522E-01	7.412E-02	1.365E-03	1.365E-03
1100 - 1200	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	1.015E-01	4.941E-02	9.098E-04	9.098E-04
1400 - 1500	1.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	4.761E-01	2.319E-01	4.549E-04	4.549E-04	3.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	1.522E-01	7.412E-02	1.365E-03	1.365E-03
1500 - 1600	1.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	4.761E-01	2.319E-01	4.549E-04	4.549E-04	2.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	1.015E-01	4.941E-02	9.098E-04	9.098E-04
1600 - 1700	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	1.015E-01	4.941E-02	9.098E-04	9.098E-04
1700 - 1800	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	1.015E-01	4.941E-02	9.098E-04	9.098E-04
1900 - 2000	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.381E-01	1.159E-01	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	4.761E-01	2.319E-01	4.549E-04	4.549E-04	2.381E-01	1.159E-01	2.275E-04	2.275E-04	5.396E-01	2.651E-01	0.000E+00	0.000E+00	1.978E+00	9.721E-01	0.000E+00	0.000E+00	5.496E-04	2.700E-04	0.000E+00	0.000E+00
0800 - 0900	9.523E-01	4.637E-01	9.098E-04	9.098E-04	4.761E-01	2.319E-01	4.549E-04	4.549E-04	1.079E+00	5.303E-01	0.000E+00	0.000E+00	3.957E+00	1.944E+00	0.000E+00	0.000E+00	1.099E-03	5.401E-04	0.000E+00	0.000E+00
0900 - 1000	1.104E+00	5.379E-01	2.275E-03	2.275E-03	5.522E-01	2.689E-01	1.137E-03	1.137E-03	1.162E+00	5.713E-01	0.000E+00	0.000E+00	4.262E+00	2.095E+00	0.000E+00	0.000E+00	1.184E-03	5.818E-04	0.000E+00	0.000E+00
1000 - 1100	1.522E-01	7.412E-02	1.365E-03	1.365E-03	7.609E-02	3.706E-02	6.824E-04	6.824E-04	1.276E-01	6.275E-02	0.000E+00	0.000E+00	4.680E-01	2.301E-01	0.000E+00	0.000E+00	1.300E-04	6.391E-05	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.015E-01	4.941E-02	9.098E-04	9.098E-04	5.073E-02	2.471E-02	4.549E-04	4.549E-04	1.257E-01	6.176E-02	0.000E+00	0.000E+00	4.609E-01	2.264E-01	0.000E+00	0.000E+00	1.280E-04	6.290E-05	0.000E+00	0.000E+00
1400 - 1500	6.283E-01	3.060E-01	1.820E-03	1.820E-03	3.142E-01	1.530E-01	9.098E-04	9.098E-04	6.931E-01	3.406E-01	0.000E+00	0.000E+00	2.541E+00	1.249E+00	0.000E+00	0.000E+00	7.059E-04	3.469E-04	0.000E+00	0.000E+00
1500 - 1600	5.776E-01	2.813E-01	1.365E-03	1.365E-03	2.888E-01	1.406E-01	6.824E-04	6.824E-04	1.263E-01	6.231E-02	0.000E+00	0.000E+00	4.633E-01	2.285E-01	0.000E+00	0.000E+00	1.287E-04	6.346E-05	0.000E+00	0.000E+00
1600 - 1700	1.015E-01	4.941E-02	9.098E-04	9.098E-04	5.073E-02	2.471E-02	4.549E-04	4.549E-04	7.032E-02	3.458E-02	0.000E+00	0.000E+00	2.578E-01	1.268E-01	0.000E+00	0.000E+00	7.162E-05	3.523E-05	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.015E-01	4.941E-02	9.098E-04	9.098E-04	5.073E-02	2.471E-02	4.549E-04	4.549E-04	1.294E-01	6.358E-02	0.000E+00	0.000E+00	4.744E-01	2.331E-01	0.000E+00	0.000E+00	1.318E-04	6.475E-05	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV7)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV7							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	3.277E-01	1.596E-01	1.182E-02	1.086E-02
0800 - 0900	2.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	6.554E-01	3.192E-01	2.364E-02	2.172E-02
0900 - 1000	5.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	1.639E+00	7.980E-01	5.910E-02	5.430E-02
1000 - 1100	3.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	9.832E-01	4.788E-01	3.546E-02	3.258E-02
1100 - 1200	1.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	3.277E-01	1.596E-01	1.182E-02	1.086E-02
1200 - 1300	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	6.554E-01	3.192E-01	2.364E-02	2.172E-02
1400 - 1500	5.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	1.639E+00	7.980E-01	5.910E-02	5.430E-02
1500 - 1600	3.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	9.832E-01	4.788E-01	3.546E-02	3.258E-02
1600 - 1700	3.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	9.832E-01	4.788E-01	3.546E-02	3.258E-02
1700 - 1800	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	3.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	9.832E-01	4.788E-01	3.546E-02	3.258E-02
1900 - 2000	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.092E+00	5.320E-01	3.940E-02	3.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV7s =	2	min

Hour	Frequency	HGV7							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	5.073E-02	2.471E-02	4.549E-04	4.549E-04
1200 - 1300	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	5.073E-02	2.471E-02	4.549E-04	4.549E-04
1500 - 1600	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	5.073E-02	2.471E-02	4.549E-04	4.549E-04
1700 - 1800	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	5.073E-02	2.471E-02	4.549E-04	4.549E-04
1900 - 2000	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.536E-02	1.235E-02	2.275E-04	2.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV7)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.343E+00	6.566E-01	1.227E-02	1.131E-02	3.732E-04	1.824E-04	3.410E-06	3.143E-06
0800 - 0900	2.687E+00	1.313E+00	2.455E-02	2.263E-02	7.463E-04	3.648E-04	6.819E-06	6.286E-06
0900 - 1000	3.906E+00	1.907E+00	6.137E-02	5.657E-02	1.085E-03	5.298E-04	1.705E-05	1.572E-05
1000 - 1100	1.263E+00	6.157E-01	3.682E-02	3.394E-02	3.508E-04	1.710E-04	1.023E-05	9.429E-06
1100 - 1200	3.784E-01	1.843E-01	1.227E-02	1.131E-02	1.051E-04	5.120E-05	3.410E-06	3.143E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	8.826E-01	4.304E-01	2.455E-02	2.263E-02	2.452E-04	1.195E-04	6.819E-06	6.286E-06
1400 - 1500	3.011E+00	1.469E+00	6.137E-02	5.657E-02	8.363E-04	4.081E-04	1.705E-05	1.572E-05
1500 - 1600	1.687E+00	8.224E-01	3.682E-02	3.394E-02	4.686E-04	2.284E-04	1.023E-05	9.429E-06
1600 - 1700	1.206E+00	5.875E-01	3.682E-02	3.394E-02	3.349E-04	1.632E-04	1.023E-05	9.429E-06
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.265E+00	6.165E-01	3.682E-02	3.394E-02	3.513E-04	1.712E-04	1.023E-05	9.429E-06
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV8_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.630E-02	1.552E-01	2.070E-01	2.932E-01	3.622E-01	4.830E-01	7.072E-01	8.797E-01	1.294E+00	1.691E+00	1.898E+00	2.243E+00	2.467E+00	2.588E+00	2.657E+00	2.725E+00	2.760E+00	2.760E+00
NO_2	4.050E-02	7.300E-02	9.730E-02	1.379E-01	1.703E-01	2.271E-01	3.325E-01	4.136E-01	6.082E-01	7.947E-01	8.920E-01	1.054E+00	1.160E+00	1.216E+00	1.249E+00	1.281E+00	1.298E+00	1.298E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	No. of Cold Starts of HGV8																		Total Starting Emission (g)			
Sitting Time (min)	5	10	20	30	40	50	60	120	180	240	300	360	420	480	540	600	660	720	NO	NO_2	RSP	FSP
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	2.760E+00	1.298E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.630E-02	4.050E-02	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.830E-01	2.271E-01	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.072E-01	3.325E-01	0.000E+00	0.000E+00
1200 - 1300	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.630E-02	4.050E-02	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	1.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.621E+00	7.623E-01	0.000E+00	0.000E+00
1400 - 1500	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.622E-01	1.703E-01	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.935E-01	3.730E-01	0.000E+00	0.000E+00
1700 - 1800	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.382E-01	3.001E-01	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.966E+00	9.245E-01	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.072E-01	3.325E-01	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV8_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV8s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV8 (Diesel)									HGV8 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	3.230E-01	1.540E-01	4.889E-04	4.889E-04	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	5.551E-02	2.647E-02	4.889E-04	4.889E-04
0900 - 1000	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	5.551E-02	2.647E-02	4.889E-04	4.889E-04
1100 - 1200	1.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	3.230E-01	1.540E-01	4.889E-04	4.889E-04	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	5.551E-02	2.647E-02	4.889E-04	4.889E-04
1300 - 1400	2.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	6.460E-01	3.080E-01	9.778E-04	9.778E-04	1.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	5.551E-02	2.647E-02	4.889E-04	4.889E-04
1400 - 1500	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	1.110E-01	5.293E-02	9.778E-04	9.778E-04
1500 - 1600	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	3.230E-01	1.540E-01	4.889E-04	4.889E-04	1.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	5.551E-02	2.647E-02	4.889E-04	4.889E-04
1700 - 1800	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	1.110E-01	5.293E-02	9.778E-04	9.778E-04
1800 - 1900	2.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	6.460E-01	3.080E-01	9.778E-04	9.778E-04	1.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	5.551E-02	2.647E-02	4.889E-04	4.889E-04
1900 - 2000	1.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	3.230E-01	1.540E-01	4.889E-04	4.889E-04	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.615E-01	7.700E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	3.230E-01	1.540E-01	4.889E-04	4.889E-04	1.615E-01	7.700E-02	2.444E-04	2.444E-04	5.568E-01	2.615E-01	0.000E+00	0.000E+00	2.042E+00	9.590E-01	0.000E+00	0.000E+00	5.671E-04	2.664E-04	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	5.551E-02	2.647E-02	4.889E-04	4.889E-04	2.776E-02	1.323E-02	2.444E-04	2.444E-04	1.255E-02	5.843E-03	0.000E+00	0.000E+00	4.600E-02	2.142E-02	0.000E+00	0.000E+00	1.278E-05	5.951E-06	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	5.551E-02	2.647E-02	4.889E-04	4.889E-04	2.776E-02	1.323E-02	2.444E-04	2.444E-04	9.755E-02	4.583E-02	0.000E+00	0.000E+00	3.577E-01	1.680E-01	0.000E+00	0.000E+00	9.936E-05	4.668E-05	0.000E+00	0.000E+00
1100 - 1200	3.230E-01	1.540E-01	4.889E-04	4.889E-04	1.615E-01	7.700E-02	2.444E-04	2.444E-04	1.169E-01	5.475E-02	0.000E+00	0.000E+00	4.288E-01	2.008E-01	0.000E+00	0.000E+00	1.191E-04	5.576E-05	0.000E+00	0.000E+00
1200 - 1300	5.551E-02	2.647E-02	4.889E-04	4.889E-04	2.776E-02	1.323E-02	2.444E-04	2.444E-04	1.255E-02	5.843E-03	0.000E+00	0.000E+00	4.600E-02	2.142E-02	0.000E+00	0.000E+00	1.278E-05	5.951E-06	0.000E+00	0.000E+00
1300 - 1400	7.015E-01	3.345E-01	1.467E-03	1.467E-03	3.507E-01	1.672E-01	7.333E-04	7.333E-04	2.723E-01	1.275E-01	0.000E+00	0.000E+00	9.984E-01	4.676E-01	0.000E+00	0.000E+00	2.773E-04	1.299E-04	0.000E+00	0.000E+00
1400 - 1500	1.110E-01	5.293E-02	9.778E-04	9.778E-04	5.551E-02	2.647E-02	4.889E-04	4.889E-04	6.572E-02	3.082E-02	0.000E+00	0.000E+00	2.410E-01	1.130E-01	0.000E+00	0.000E+00	6.694E-05	3.139E-05	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	3.785E-01	1.805E-01	9.778E-04	9.778E-04	1.892E-01	9.023E-02	4.889E-04	4.889E-04	1.295E-01	6.059E-02	0.000E+00	0.000E+00	4.748E-01	2.222E-01	0.000E+00	0.000E+00	1.319E-04	6.172E-05	0.000E+00	0.000E+00
1700 - 1800	1.110E-01	5.293E-02	9.778E-04	9.778E-04	5.551E-02	2.647E-02	4.889E-04	4.889E-04	1.249E-01	5.864E-02	0.000E+00	0.000E+00	4.578E-01	2.150E-01	0.000E+00	0.000E+00	1.272E-04	5.972E-05	0.000E+00	0.000E+00
1800 - 1900	7.015E-01	3.345E-01	1.467E-03	1.467E-03	3.507E-01	1.672E-01	7.333E-04	7.333E-04	3.462E-01	1.623E-01	0.000E+00	0.000E+00	1.269E+00	5.950E-01	0.000E+00	0.000E+00	3.526E-04	1.653E-04	0.000E+00	0.000E+00
1900 - 2000	3.230E-01	1.540E-01	4.889E-04	4.889E-04	1.615E-01	7.700E-02	2.444E-04	2.444E-04	1.169E-01	5.475E-02	0.000E+00	0.000E+00	4.288E-01	2.008E-01	0.000E+00	0.000E+00	1.191E-04	5.576E-05	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV8)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	HGV8								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	7.941E-01	3.786E-01	2.085E-02	1.920E-02
0700 - 0800	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	7.941E-01	3.786E-01	2.085E-02	1.920E-02
0900 - 1000	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	7.941E-01	3.786E-01	2.085E-02	1.920E-02
1100 - 1200	1.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	7.941E-01	3.786E-01	2.085E-02	1.920E-02
1200 - 1300	3.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	2.382E+00	1.136E+00	6.255E-02	5.760E-02
1300 - 1400	3.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	2.382E+00	1.136E+00	6.255E-02	5.760E-02
1400 - 1500	2.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	1.588E+00	7.572E-01	4.170E-02	3.840E-02
1500 - 1600	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	1.588E+00	7.572E-01	4.170E-02	3.840E-02
1700 - 1800	2.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	1.588E+00	7.572E-01	4.170E-02	3.840E-02
1800 - 1900	4.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	3.176E+00	1.514E+00	8.340E-02	7.680E-02
1900 - 2000	1.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	7.941E-01	3.786E-01	2.085E-02	1.920E-02
2000 - 2100	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.647E+00	1.262E+00	6.950E-02	6.400E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV8s =	2	min

Hour	HGV8								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	2.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	1.110E-01	5.293E-02	9.778E-04	9.778E-04
1300 - 1400	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	5.551E-02	2.647E-02	4.889E-04	4.889E-04
1900 - 2000	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.776E-02	1.323E-02	2.444E-04	2.444E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV8)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.674E+00	7.941E-01	2.134E-02	1.969E-02	4.650E-04	2.206E-04	5.927E-06	5.469E-06
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	8.621E-01	4.109E-01	2.134E-02	1.969E-02	2.395E-04	1.141E-04	5.927E-06	5.469E-06
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	9.471E-01	4.509E-01	2.134E-02	1.969E-02	2.631E-04	1.252E-04	5.927E-06	5.469E-06
1100 - 1200	1.234E+00	5.873E-01	2.134E-02	1.969E-02	3.428E-04	1.632E-04	5.927E-06	5.469E-06
1200 - 1300	2.561E+00	1.221E+00	6.402E-02	5.907E-02	7.115E-04	3.392E-04	1.778E-05	1.641E-05
1300 - 1400	3.356E+00	1.598E+00	6.402E-02	5.907E-02	9.322E-04	4.438E-04	1.778E-05	1.641E-05
1400 - 1500	1.765E+00	8.410E-01	4.268E-02	3.938E-02	4.902E-04	2.336E-04	1.185E-05	1.094E-05
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.096E+00	9.983E-01	4.268E-02	3.938E-02	5.823E-04	2.773E-04	1.185E-05	1.094E-05
1700 - 1800	1.824E+00	8.688E-01	4.268E-02	3.938E-02	5.067E-04	2.413E-04	1.185E-05	1.094E-05
1800 - 1900	4.279E+00	2.038E+00	8.536E-02	7.876E-02	1.189E-03	5.660E-04	2.371E-05	2.188E-05
1900 - 2000	1.234E+00	5.873E-01	2.134E-02	1.969E-02	3.428E-04	1.632E-04	5.927E-06	5.469E-06
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV9_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.760E-02	1.576E-01	2.101E-01	2.977E-01	3.679E-01	4.904E-01	7.181E-01	8.932E-01	1.314E+00	1.716E+00	1.927E+00	2.277E+00	2.505E+00	2.627E+00	2.697E+00	2.767E+00	2.802E+00	2.802E+00
NO_2	4.030E-02	7.260E-02	9.680E-02	1.371E-01	1.693E-01	2.258E-01	3.306E-01	4.113E-01	6.048E-01	7.903E-01	8.871E-01	1.048E+00	1.153E+00	1.210E+00	1.242E+00	1.274E+00	1.290E+00	1.290E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of HGV9**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	2.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.802E+00	1.290E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.170E+00	1.460E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.802E+00	1.290E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
6.656E-01	3.064E-01	0.000E+00	0.000E+00
1.716E+00	7.903E-01	0.000E+00	0.000E+00
2.435E+00	1.121E+00	0.000E+00	0.000E+00
8.232E-01	3.790E-01	0.000E+00	0.000E+00
2.977E-01	1.371E-01	0.000E+00	0.000E+00
2.102E+00	9.677E-01	0.000E+00	0.000E+00
5.431E-01	2.499E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.716E+00	7.903E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV9_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV9s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV9 (Diesel)									HGV9 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	3.352E-01	1.568E-01	6.169E-04	6.169E-04	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	3.352E-01	1.568E-01	6.169E-04	6.169E-04	2.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	1.386E-01	6.483E-02	1.234E-03	1.234E-03
0900 - 1000	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	3.352E-01	1.568E-01	6.169E-04	6.169E-04	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	1.386E-01	6.483E-02	1.234E-03	1.234E-03
1300 - 1400	1.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	3.352E-01	1.568E-01	6.169E-04	6.169E-04	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	2.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	6.703E-01	3.135E-01	1.234E-03	1.234E-03	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	2.079E-01	9.725E-02	1.851E-03	1.851E-03
1600 - 1700	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	1.386E-01	6.483E-02	1.234E-03	1.234E-03
1700 - 1800	1.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	3.352E-01	1.568E-01	6.169E-04	6.169E-04	2.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	1.386E-01	6.483E-02	1.234E-03	1.234E-03
1800 - 1900	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	2.079E-01	9.725E-02	1.851E-03	1.851E-03
1900 - 2000	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	3.352E-01	1.568E-01	6.169E-04	6.169E-04	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.676E-01	7.839E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	3.352E-01	1.568E-01	6.169E-04	6.169E-04	1.676E-01	7.839E-02	3.084E-04	3.084E-04	5.646E-01	2.597E-01	0.000E+00	0.000E+00	2.070E+00	9.522E-01	0.000E+00	0.000E+00	5.750E-04	2.645E-04	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	4.738E-01	2.216E-01	1.851E-03	1.851E-03	2.369E-01	1.108E-01	9.253E-04	9.253E-04	6.285E-01	2.890E-01	0.000E+00	0.000E+00	2.305E+00	1.060E+00	0.000E+00	0.000E+00	6.402E-04	2.944E-04	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	3.352E-01	1.568E-01	6.169E-04	6.169E-04	1.676E-01	7.839E-02	3.084E-04	3.084E-04	5.646E-01	2.597E-01	0.000E+00	0.000E+00	2.070E+00	9.522E-01	0.000E+00	0.000E+00	5.750E-04	2.645E-04	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	1.386E-01	6.483E-02	1.234E-03	1.234E-03	6.930E-02	3.242E-02	6.169E-04	6.169E-04	1.278E-01	5.871E-02	0.000E+00	0.000E+00	4.685E-01	2.153E-01	0.000E+00	0.000E+00	1.301E-04	5.980E-05	0.000E+00	0.000E+00
1300 - 1400	3.352E-01	1.568E-01	6.169E-04	6.169E-04	1.676E-01	7.839E-02	3.084E-04	3.084E-04	3.319E-01	1.526E-01	0.000E+00	0.000E+00	1.217E+00	5.594E-01	0.000E+00	0.000E+00	3.380E-04	1.554E-04	0.000E+00	0.000E+00
1400 - 1500	6.703E-01	3.135E-01	1.234E-03	1.234E-03	3.352E-01	1.568E-01	6.169E-04	6.169E-04	4.499E-01	2.066E-01	0.000E+00	0.000E+00	1.649E+00	7.575E-01	0.000E+00	0.000E+00	4.582E-04	2.104E-04	0.000E+00	0.000E+00
1500 - 1600	2.079E-01	9.725E-02	1.851E-03	1.851E-03	1.040E-01	4.863E-02	9.253E-04	9.253E-04	1.541E-01	7.079E-02	0.000E+00	0.000E+00	5.651E-01	2.596E-01	0.000E+00	0.000E+00	1.570E-04	7.211E-05	0.000E+00	0.000E+00
1600 - 1700	1.386E-01	6.483E-02	1.234E-03	1.234E-03	6.930E-02	3.242E-02	6.169E-04	6.169E-04	4.894E-02	2.243E-02	0.000E+00	0.000E+00	1.795E-01	8.225E-02	0.000E+00	0.000E+00	4.985E-05	2.285E-05	0.000E+00	0.000E+00
1700 - 1800	4.738E-01	2.216E-01	1.851E-03	1.851E-03	2.369E-01	1.108E-01	9.253E-04	9.253E-04	3.996E-01	1.836E-01	0.000E+00	0.000E+00	1.465E+00	6.733E-01	0.000E+00	0.000E+00	4.070E-04	1.870E-04	0.000E+00	0.000E+00
1800 - 1900	2.079E-01	9.725E-02	1.851E-03	1.851E-03	1.040E-01	4.863E-02	9.253E-04	9.253E-04	9.410E-02	4.313E-02	0.000E+00	0.000E+00	3.450E-01	1.581E-01	0.000E+00	0.000E+00	9.584E-05	4.393E-05	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	3.352E-01	1.568E-01	6.169E-04	6.169E-04	1.676E-01	7.839E-02	3.084E-04	3.084E-04	3.319E-01	1.526E-01	0.000E+00	0.000E+00	1.217E+00	5.594E-01	0.000E+00	0.000E+00	3.380E-04	1.554E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV9)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	HGV9								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	8.093E-01	3.786E-01	2.013E-02	1.851E-02
0700 - 0800	1.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	8.093E-01	3.786E-01	2.013E-02	1.851E-02
0800 - 0900	3.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	2.428E+00	1.136E+00	6.039E-02	5.553E-02
0900 - 1000	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	8.093E-01	3.786E-01	2.013E-02	1.851E-02
1100 - 1200	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	3.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	2.428E+00	1.136E+00	6.039E-02	5.553E-02
1300 - 1400	1.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	8.093E-01	3.786E-01	2.013E-02	1.851E-02
1400 - 1500	2.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	1.619E+00	7.571E-01	4.026E-02	3.702E-02
1500 - 1600	5.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	4.047E+00	1.893E+00	1.006E-01	9.255E-02
1600 - 1700	2.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	1.619E+00	7.571E-01	4.026E-02	3.702E-02
1700 - 1800	3.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	2.428E+00	1.136E+00	6.039E-02	5.553E-02
1800 - 1900	3.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	2.428E+00	1.136E+00	6.039E-02	5.553E-02
1900 - 2000	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	8.093E-01	3.786E-01	2.013E-02	1.851E-02
2100 - 2200	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.698E+00	1.262E+00	6.710E-02	6.170E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV9s =	2	min

Hour	HGV9								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	6.930E-02	3.242E-02	6.169E-04	6.169E-04
0800 - 0900	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	1.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	6.930E-02	3.242E-02	6.169E-04	6.169E-04
1300 - 1400	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	2.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	1.386E-01	6.483E-02	1.234E-03	1.234E-03
1600 - 1700	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.465E-02	1.621E-02	3.084E-04	3.084E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV9)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.709E+00	7.950E-01	2.075E-02	1.913E-02	4.747E-04	2.208E-04	5.763E-06	5.313E-06
0700 - 0800	8.786E-01	4.110E-01	2.075E-02	1.913E-02	2.441E-04	1.142E-04	5.763E-06	5.313E-06
0800 - 0900	3.530E+00	1.646E+00	6.224E-02	5.738E-02	9.806E-04	4.573E-04	1.729E-05	1.594E-05
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.709E+00	7.950E-01	2.075E-02	1.913E-02	4.747E-04	2.208E-04	5.763E-06	5.313E-06
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	2.764E+00	1.292E+00	6.224E-02	5.738E-02	7.677E-04	3.588E-04	1.729E-05	1.594E-05
1300 - 1400	1.476E+00	6.879E-01	2.075E-02	1.913E-02	4.101E-04	1.911E-04	5.763E-06	5.313E-06
1400 - 1500	2.739E+00	1.277E+00	4.149E-02	3.825E-02	7.608E-04	3.548E-04	1.153E-05	1.063E-05
1500 - 1600	4.547E+00	2.126E+00	1.037E-01	9.563E-02	1.263E-03	5.905E-04	2.882E-05	2.657E-05
1600 - 1700	1.806E+00	8.444E-01	4.149E-02	3.825E-02	5.017E-04	2.346E-04	1.153E-05	1.063E-05
1700 - 1800	3.301E+00	1.541E+00	6.224E-02	5.738E-02	9.171E-04	4.280E-04	1.729E-05	1.594E-05
1800 - 1900	2.730E+00	1.276E+00	6.224E-02	5.738E-02	7.583E-04	3.545E-04	1.729E-05	1.594E-05
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.476E+00	6.879E-01	2.075E-02	1.913E-02	4.101E-04	1.911E-04	5.763E-06	5.313E-06
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Routing of Start Emission outside parking area

Bus Terminus / Carpark	Fuel Type	Source ID	Travel Distance outside Bus Terminus / Carpark (m)	Area (m^2)	% of Flow	Max. Hourly Emission Rate (g/s)				Max. Hourly Emission Rate ($g/m^2/s$)			
						NO	NO2	RSP	FSP	NO	NO2	RSP	FSP
PTI in Pang Loon Tei	Diesel	**Total**	**575**	**-**	**100%**	**1.317E-03**	**2.864E-04**	**0.000E+00**	**0.000E+00**	-	-	-	-
		PLTS1	262	3664	100%	5.995E-04	1.303E-04	0.000E+00	0.000E+00	1.636E-07	3.557E-08	0.000E+00	0.000E+00
		PLTS2	38	768	40%	3.519E-05	7.651E-06	0.000E+00	0.000E+00	4.582E-08	9.960E-09	0.000E+00	0.000E+00
		PLTS3	259	3878	40%	2.369E-04	5.150E-05	0.000E+00	0.000E+00	6.109E-08	1.328E-08	0.000E+00	0.000E+00
		PLTS4	78	1091	60%	1.071E-04	2.328E-05	0.000E+00	0.000E+00	9.818E-08	2.134E-08	0.000E+00	0.000E+00
		PLTS5	94	1699	30%	6.489E-05	1.411E-05	0.000E+00	0.000E+00	3.818E-08	8.300E-09	0.000E+00	0.000E+00
		PLTS6	92	1376	30%	6.306E-05	1.371E-05	0.000E+00	0.000E+00	4.582E-08	9.960E-09	0.000E+00	0.000E+00
		PLTS7	33	460	30%	2.260E-05	4.913E-06	0.000E+00	0.000E+00	4.909E-08	1.067E-08	0.000E+00	0.000E+00
		PLTS8	111	1997	30%	7.626E-05	1.658E-05	0.000E+00	0.000E+00	3.818E-08	8.300E-09	0.000E+00	0.000E+00
		PLTS9	108	1513	30%	7.428E-05	1.615E-05	0.000E+00	0.000E+00	4.909E-08	1.067E-08	0.000E+00	0.000E+00
		PLTS10	16	229	100%	3.750E-05	8.151E-06	0.000E+00	0.000E+00	1.636E-07	3.557E-08	0.000E+00	0.000E+00
Lok Ma Chau Station PTI	Diesel	**Total**	**650**	**-**	**100%**	**1.453E-03**	**3.462E-04**	**0.000E+00**	**0.000E+00**	-	-	-	-
		LMCSD1	48	772	100%	1.078E-04	2.570E-05	0.000E+00	0.000E+00	1.397E-07	3.329E-08	0.000E+00	0.000E+00
		LMCSD2	31	616	100%	6.885E-05	1.640E-05	0.000E+00	0.000E+00	1.118E-07	2.663E-08	0.000E+00	0.000E+00
		LMCSD3	466	6060	100%	1.042E-03	2.483E-04	0.000E+00	0.000E+00	1.720E-07	4.097E-08	0.000E+00	0.000E+00
		LMCSD4	105	1363	100%	2.343E-04	5.583E-05	0.000E+00	0.000E+00	1.720E-07	4.097E-08	0.000E+00	0.000E+00
	LPG	**Total**	**100**	**-**	**100%**	**6.668E-04**	**3.355E-06**	**0.000E+00**	**0.000E+00**	-	-	-	-
		LMCSL1	48	772	100%	3.217E-04	1.619E-06	0.000E+00	0.000E+00	4.167E-07	2.097E-09	0.000E+00	0.000E+00
		LMCSL2	31	616	100%	2.054E-04	1.033E-06	0.000E+00	0.000E+00	3.334E-07	1.678E-09	0.000E+00	0.000E+00
		LMCSL3	21	272	100%	1.397E-04	7.031E-07	0.000E+00	0.000E+00	5.129E-07	2.581E-09	0.000E+00	0.000E+00
Lok Ma Chau Loop PTI	Diesel	**Total**	**600**	**-**	**100%**	**6.087E-03**	**1.323E-03**	**0.000E+00**	**0.000E+00**	-	-	-	-
		LMCLS1	169	2532	100%	1.712E-03	3.722E-04	0.000E+00	0.000E+00	6.764E-07	1.470E-07	0.000E+00	0.000E+00
		LMCLS2	217	3042	100%	2.205E-03	4.793E-04	0.000E+00	0.000E+00	7.247E-07	1.575E-07	0.000E+00	0.000E+00
		LMCLS3	52	830	80%	4.213E-04	9.158E-05	0.000E+00	0.000E+00	5.073E-07	1.103E-07	0.000E+00	0.000E+00
		LMCLS4	42	508	80%	3.433E-04	7.462E-05	0.000E+00	0.000E+00	6.764E-07	1.470E-07	0.000E+00	0.000E+00
		LMCLS5	120	958	80%	9.716E-04	2.112E-04	0.000E+00	0.000E+00	1.015E-06	2.205E-07	0.000E+00	0.000E+00
		LMCLS6	50	1108	20%	1.022E-04	2.222E-05	0.000E+00	0.000E+00	9.223E-08	2.005E-08	0.000E+00	0.000E+00
		LMCLS7	41	1079	20%	8.418E-05	1.830E-05	0.000E+00	0.000E+00	7.804E-08	1.697E-08	0.000E+00	0.000E+00
		LMCLS8	34	1084	20%	6.876E-05	1.495E-05	0.000E+00	0.000E+00	6.341E-08	1.378E-08	0.000E+00	0.000E+00
		LMCLS9	64	1538	20%	1.301E-04	2.827E-05	0.000E+00	0.000E+00	8.455E-08	1.838E-08	0.000E+00	0.000E+00
		LMCLS10	24	433	20%	4.883E-05	1.061E-05	0.000E+00	0.000E+00	1.127E-07	2.450E-08	0.000E+00	0.000E+00
Ma Po Warehouse	Diesel	**Total**	**600**	**-**	**100%**	**7.161E-04**	**3.462E-04**	**0.000E+00**	**0.000E+00**	-	-	-	-
		MPS1	144	1722	100%	1.713E-04	8.283E-05	0.000E+00	0.000E+00	9.950E-08	4.810E-08	0.000E+00	0.000E+00
		MPS2	56	1011	100%	6.731E-05	3.254E-05	0.000E+00	0.000E+00	6.656E-08	3.218E-08	0.000E+00	0.000E+00
		MPS3	400	5201	20%	9.550E-05	4.617E-05	0.000E+00	0.000E+00	1.836E-08	8.877E-09	0.000E+00	0.000E+00
		MPS4	400	5201	80%	3.820E-04	1.847E-04	0.000E+00	0.000E+00	7.345E-08	3.551E-08	0.000E+00	0.000E+00
Mega Wheel Warehouse	Diesel	**Total**	**500**	**-**	**100%**	**3.685E-03**	**1.774E-03**	**0.000E+00**	**0.000E+00**	-	-	-	-
		MWS1	248	2973	100%	1.827E-03	8.792E-04	0.000E+00	0.000E+00	6.145E-07	2.957E-07	0.000E+00	0.000E+00
		MWS2	56	1011	100%	4.156E-04	2.000E-04	0.000E+00	0.000E+00	4.110E-07	1.978E-07	0.000E+00	0.000E+00
		MWS3	196	2544	20%	2.885E-04	1.389E-04	0.000E+00	0.000E+00	1.134E-07	5.457E-08	0.000E+00	0.000E+00
		MWS4	196	2544	80%	1.154E-03	5.554E-04	0.000E+00	0.000E+00	4.536E-07	2.183E-07	0.000E+00	0.000E+00
Hop Kwan Hung To Parking Lot	Diesel	**Total**	**550**	**-**	**100%**	**1.752E-03**	**8.404E-04**	**0.000E+00**	**0.000E+00**	-	-	-	-
		HKHTS1	189	1887	100%	6.011E-04	2.883E-04	0.000E+00	0.000E+00	3.186E-07	1.528E-07	0.000E+00	0.000E+00
		HKHTS2	361	4710	30%	3.453E-04	1.656E-04	0.000E+00	0.000E+00	7.332E-08	3.517E-08	0.000E+00	0.000E+00
		HKHTS3	361	4710	70%	8.057E-04	3.865E-04	0.000E+00	0.000E+00	1.711E-07	8.206E-08	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Emission Inventory for AERMOD Model (Operation Phase – Year 2034)

Bus Terminus / Carpark	Source ID	Type	X	Y	Release Height	Operation Period	Area for PTI / Carpark	No. of Vertices	Max. Hourly Emission Rate			
									NO	NO2	RSP	FSP
			(m)	(m)	(mAG)	(hr)	(for AREAPOLY)	(for AREAPOLY)	($g/m^2/s$)			
Emission inside Parking Area												
PTI in Pang Loon Tei	PLT1	AREAPOLY	826939.40	839160.84	0.00	24	8983.21	4	4.009E-07	7.742E-08	1.023E-08	9.436E-09
Lok Ma Chau Station PTI	LMCS1	AREAPOLY	824893.00	841787.87	0.00	24	1882.63	4	1.044E-06	1.715E-07	2.221E-08	2.062E-08
Lok Ma Chau Loop PTI	LMCL1	AREAPOLY	825797.62	841881.34	0.00	24	7420.43	4	1.521E-06	2.940E-07	3.714E-08	3.431E-08
Mai Po Warehouse	MP1	AREAPOLY	824222.20	839630.93	0.00	24	5099.27	9	1.621E-07	7.688E-08	2.772E-09	2.561E-09
Mega Wheel Warehouse	MW1	AREAPOLY	824054.17	839702.44	0.00	24	21609.32	9	2.654E-07	1.197E-07	6.753E-09	6.225E-09
Hop Kwan Hung To Parking Lot	HKHT1	AREAPOLY	824157.70	839292.32	0.00	24	9713.84	9	2.181E-07	9.501E-08	6.402E-09	6.077E-09
Start Emission outside Parking Area												
PTI in Pang Loon Tei	PLTS1	AREAPOLY	826958.32	839157.34	3.91	24	3663.51	8	1.6364E-07	3.5573E-08	0.0000E+00	0.0000E+00
	PLTS2	AREAPOLY	826779.90	839336.18	3.91	24	768.12	4	4.5819E-08	9.9601E-09	0.0000E+00	0.0000E+00
	PLTS3	AREAPOLY	826811.90	839342.18	3.91	24	3878.04	10	6.1092E-08	1.3280E-08	0.0000E+00	0.0000E+00
	PLTS4	AREAPOLY	826774.08	839342.35	3.91	24	1090.66	4	9.8184E-08	2.1343E-08	0.0000E+00	0.0000E+00
	PLTS5	AREAPOLY	826731.27	839404.81	3.91	24	1699.40	4	3.8182E-08	8.3001E-09	0.0000E+00	0.0000E+00
	PLTS6	AREAPOLY	826661.71	839479.54	3.91	24	1376.19	4	4.5819E-08	9.9601E-09	0.0000E+00	0.0000E+00
	PLTS7	AREAPOLY	826613.49	839403.37	3.91	24	460.36	4	4.9091E-08	1.0671E-08	0.0000E+00	0.0000E+00
	PLTS8	AREAPOLY	826731.31	839404.78	3.91	24	1997.28	4	3.8182E-08	8.3001E-09	0.0000E+00	0.0000E+00
	PLTS9	AREAPOLY	826648.80	839488.57	3.91	24	1513.11	4	4.9092E-08	1.0672E-08	0.0000E+00	0.0000E+00
	PLTS10	AREAPOLY	826949.01	839151.44	3.91	24	229.14	4	1.6364E-07	3.5573E-08	0.0000E+00	0.0000E+00
Lok Ma Chau Station PTI	LMCSD1	AREAPOLY	824901.01	841800.04	3.91	24	771.94	4	1.397E-07	3.329E-08	0.000E+00	0.000E+00
	LMCSD2	AREAPOLY	824939.75	841794.93	3.91	24	615.97	4	1.118E-07	2.663E-08	0.000E+00	0.000E+00
	LMCSD3	AREAPOLY	824946.41	841832.82	3.91	24	6059.85	6	1.720E-07	4.097E-08	0.000E+00	0.000E+00
	LMCSD4	AREAPOLY	825396.34	841921.14	3.91	24	1362.57	4	1.720E-07	4.097E-08	0.000E+00	0.000E+00
	LMCSL1	AREAPOLY	824901.01	841800.04	3.91	24	771.94	4	4.167E-07	2.097E-09	0.000E+00	0.000E+00
	LMCSL2	AREAPOLY	824939.75	841794.93	3.91	24	615.97	4	3.334E-07	1.678E-09	0.000E+00	0.000E+00
	LMCSL3	AREAPOLY	824946.41	841832.82	3.91	24	272.41	4	5.129E-07	2.581E-09	0.000E+00	0.000E+00
Lok Ma Chau Loop PTI	LMCLS1	AREAPOLY	825764.76	842046.12	3.91	24	2531.78	4	6.764E-07	1.470E-07	0.000E+00	0.000E+00
	LMCLS2	AREAPOLY	825765.91	842055.70	3.91	24	3042.10	8	7.247E-07	1.575E-07	0.000E+00	0.000E+00
	LMCLS3	AREAPOLY	825645.91	841877.82	3.91	24	830.44	4	5.073E-07	1.103E-07	0.000E+00	0.000E+00
	LMCLS4	AREAPOLY	825637.99	841828.94	3.91	24	507.53	4	6.764E-07	1.470E-07	0.000E+00	0.000E+00
	LMCLS5	AREAPOLY	825615.48	841794.48	3.91	24	957.69	6	1.015E-06	2.205E-07	0.000E+00	0.000E+00
	LMCLS6	AREAPOLY	825658.21	841886.19	3.91	24	1108.14	4	9.223E-08	2.005E-08	0.000E+00	0.000E+00
	LMCLS7	AREAPOLY	825689.07	841848.24	3.91	24	1078.66	4	7.804E-08	1.697E-08	0.000E+00	0.000E+00
	LMCLS8	AREAPOLY	825707.82	841817.88	3.91	24	1084.37	4	6.341E-08	1.378E-08	0.000E+00	0.000E+00
	LMCLS9	AREAPOLY	825719.29	841790.19	3.91	24	1538.42	6	8.455E-08	1.838E-08	0.000E+00	0.000E+00
	LMCLS10	AREAPOLY	825723.44	841733.37	3.91	24	433.14	4	1.127E-07	2.450E-08	0.000E+00	0.000E+00
Ma Po Warehouse	MPS1	AREAPOLY	824308.80	839540.78	3.91	24	1721.82	6	9.950E-08	4.810E-08	0.000E+00	0.000E+00
	MPS2	AREAPOLY	824410.24	839470.26	3.91	24	1011.29	6	6.656E-08	3.218E-08	0.000E+00	0.000E+00
	MPS3	AREAPOLY	824391.30	839419.14	3.91	24	5200.75	12	1.836E-08	8.877E-09	0.000E+00	0.000E+00
	MPS4	AREAPOLY	824392.29	839421.41	3.91	24	5200.77	8	7.345E-08	3.551E-08	0.000E+00	0.000E+00
Mega Wheel Warehouse	MWS1	AREAPOLY	824251.90	839630.42	3.91	24	2973.10	10	6.145E-07	2.957E-07	0.000E+00	0.000E+00
	MWS2	AREAPOLY	824410.24	839470.26	3.91	24	1011.29	6	4.110E-07	1.978E-07	0.000E+00	0.000E+00
	MWS3	AREAPOLY	824391.30	839419.14	3.91	24	2544.49	6	1.134E-07	5.457E-08	0.000E+00	0.000E+00
	MWS4	AREAPOLY	824392.29	839421.41	3.91	24	2544.40	8	4.536E-07	2.183E-07	0.000E+00	0.000E+00
Hop Kwan Hung To Parking Lot	HKHTS1	AREAPOLY	824167.85	839140.50	3.91	24	1886.72	8	3.186E-07	1.528E-07	0.000E+00	0.000E+00
	HKHTS2	AREAPOLY	824312.78	839033.45	3.91	24	4709.62	8	7.332E-08	3.517E-08	0.000E+00	0.000E+00
	HKHTS3	AREAPOLY	824312.67	839033.29	3.91	24	4709.53	12	1.711E-07	8.206E-08	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Location of vertices for AREAPOLY

	Coordinate	Source																		
		CT1	PLT1	ST1	LMCS1	LMCL1	MP1	MW1	HKHT1	CTS1	CTS2	CTS3	CTS4	CTS5	PLTS1	PLTS2	PLTS3	PLTS4	PLTS5	PLTS6
Vertice 1	X	826254.69	826939.40	825502.35	824893.00	825797.62	824222.20	824054.17	824157.70	826158.67	825696.34	825859.60	826151.28	826321.91	826958.32	826779.90	826811.90	826774.08	826731.27	826661.71
	Y	840208.89	839160.84	838653.29	841787.87	841881.34	839630.93	839702.44	839292.32	840237.22	840355.65	840408.08	840223.03	840267.02	839157.34	839336.18	839342.18	839342.35	839404.81	839479.54
Vertice 2	X	826156.39	827039.16	825622.33	824912.17	825856.47	824257.37	824225.21	824194.53	826151.28	825672.19	825848.71	826158.67	826264.16	826897.07	826779.98	826824.79	826731.51	826661.91	826674.32
	Y	840254.80	839081.32	838769.27	841788.98	841925.66	839631.15	839712.47	839300.69	840223.03	840341.20	840416.88	840237.22	840172.83	839207.34	839356.18	839349.85	839407.60	839468.87	839471.42
Vertice 3	X	826205.11	826984.85	825715.93	824919.51	825917.18	824269.63	824230.31	824210.76	826010.83	825663.98	825884.63	826261.88	826252.22	826823.48	826818.39	826851.66	826743.24	826674.12	826624.66
	Y	840359.12	839022.39	838672.83	841691.01	841851.32	839618.04	839676.58	839314.12	840296.21	840354.93	840461.31	840183.58	840180.14	839267.35	839356.02	839304.75	839415.25	839482.09	839394.28
Vertice 4	X	826303.41	826911.70	825590.69	824900.41	825854.77	824286.79	824240.46	824242.08	825849.65	825690.33	825940.88	826254.50	826311.07	826774.09	826818.30	826882.52	826785.80	826743.48	826612.05
	Y	840313.22	839074.29	838557.97	841689.92	841801.96	839588.66	839651.86	839298.47	840405.86	840370.53	840588.03	840169.39	840275.98	839342.33	839336.02	839273.26	839350.00	839418.04	839402.40
Vertice 5	X	-	-	-	-	-	824294.84	824257.37	824213.01	825858.65	825851.81	825953.68	-	826392.46	826785.79	-	826973.50	-	-	-
	Y	-	-	-	-	-	839573.72	839631.15	839243.46	840419.09	840420.12	840582.35	-	840352.54	839350.02	-	839197.11	-	-	-
Vertice 6	X	-	-	-	-	-	824303.11	824222.20	824172.03	826018.94	825856.50	825896.72	-	826423.14	826834.10	-	827005.43	-	-	-
	Y	-	-	-	-	-	839555.62	839630.93	839143.23	840310.02	840404.83	840454.12	-	840377.84	839276.60	-	839172.18	-	-	-
Vertice 7	X	-	-	-	-	-	824310.78	824207.62	824133.25	-	-	-	-	826526.74	826905.91	-	826996.20	-	-	-
	Y	-	-	-	-	-	839546.44	839589.43	839155.38	-	-	-	-	840440.40	839218.20	-	839160.36	-	-	-
Vertice 8	X	-	-	-	-	-	824265.57	824016.07	824129.70	-	-	-	-	826576.81	826967.17	-	826963.97	-	-	-
	Y	-	-	-	-	-	839547.66	839619.89	839217.81	-	-	-	-	840458.83	839168.18	-	839185.53	-	-	-
Vertice 9	X	-	-	-	-	-	824207.62	824003.21	824139.38	-	-	-	-	826581.64	-	-	826996.20	-	-	-
	Y	-	-	-	-	-	839589.43	839654.83	839248.38	-	-	-	-	840445.69	-	-	839160.36	-	-	-
Vertice 10	X	-	-	-	-	-	-	-	-	-	-	-	-	826532.21	-	-	827005.43	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	840427.49	-	-	839172.18	-	-	-
Vertice 11	X	-	-	-	-	-	-	-	-	-	-	-	-	826431.65	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	840366.71	-	-	-	-	-	-
Vertice 12	X	-	-	-	-	-	-	-	-	-	-	-	-	826401.89	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	840342.18	-	-	-	-	-	-
Vertice 13	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 14	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 15	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 16	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 17	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 18	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 19	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 20	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Location of vertices for AREAPOLY

	Source																			
	PLTS7	PLTS8	PLTS9	PLTS10	STS1	STS2	STS3	STS4	STS5	STS6	LMCSD1	LMCSD2	LMCSD3	LMCSD4	LMCSL1	LMCSL2	LMCSL3	LMCLS1	LMCLS2	LMCLS3
Vertice 1	826613.49	826731.31	826648.80	826949.01	825473.63	825462.69	825307.52	825305.40	825139.32	825361.86	824901.01	824939.75	824946.41	825396.34	824901.01	824939.75	824946.41	825764.76	825765.91	825645.91
	839403.37	839404.78	839488.57	839151.44	838641.29	838642.71	838515.75	838514.80	838515.34	838389.07	841800.04	841794.93	841832.82	841921.14	841800.04	841794.93	841832.82	842046.12	842055.70	841877.82
Vertice 2	826623.22	826649.32	826685.53	826956.53	825462.65	825473.58	825299.47	825208.05	825207.06	825297.42	824949.12	824937.42	825182.04	825409.06	824949.12	824937.42	824967.13	825776.73	825775.58	825661.55
	839393.31	839479.54	839590.22	839165.97	838652.92	838651.51	838529.53	838493.65	838507.93	838519.52	841803.66	841825.64	841867.83	841923.82	841803.66	841825.64	841835.98	842055.17	842045.58	841874.46
Vertice 3	826599.58	826661.45	826698.70	826968.96	825517.19	825237.90	825368.39	825204.65	825205.64	825309.98	824950.33	824957.36	825400.98	825430.72	824950.33	824957.36	824969.08	825878.58	825689.42	825650.65
	839370.45	839492.84	839585.46	839159.54	838704.43	838943.19	838569.57	838509.28	838495.01	838525.71	841787.71	841827.15	841928.75	841821.27	841787.71	841827.15	841823.12	841920.58	841963.25	841823.71
Vertice 4	826589.85	826743.44	826661.97	826961.44	825528.17	825227.01	825462.84	825302.00	825137.91	825373.96	824902.22	824959.70	825404.43	825418.00	824902.22	824959.70	824948.37	825866.62	825672.02	825635.01
	839380.52	839418.08	839483.81	839145.00	838692.79	838934.39	838653.10	838530.43	838502.42	838396.16	841784.08	841796.44	841916.21	841818.59	841784.08	841796.44	841819.97	841911.53	841928.79	841827.07
Vertice 5	-	-	-	-	-	-	825473.44	-	-	825386.81	-	-	825185.80	-	-	-	-	-	825660.58	-
	-	-	-	-	-	-	838641.11	-	-	838377.95	-	-	841856.13	-	-	-	-	-	841874.69	-
Vertice 6	-	-	-	-	-	-	825378.23	-	-	825375.37	-	-	824948.37	-	-	-	-	-	825646.88	-
	-	-	-	-	-	-	838556.92	-	-	838369.87	-	-	841819.97	-	-	-	-	-	841877.59	-
Vertice 7	-	-	-	-	-	-	825377.11	-	-	-	-	-	-	-	-	-	-	-	825658.51	-
	-	-	-	-	-	-	838556.13	-	-	-	-	-	-	-	-	-	-	-	841932.58	-
Vertice 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	825678.09	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	841971.64	-
Vertice 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Vertice 12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Vertice 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Vertice 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Location of vertices for AREAPOLY

	Source																	
	LMCLS4	LMCLS5	LMCLS6	LMCLS7	LMCLS8	LMCLS9	LMCLS10	MPS1	MPS2	MPS3	MPS4	MWS1	MWS2	MWS3	MWS4	HKHTS1	HKHTS2	HKHTS3
Vertice 1	825637.99	825615.48	825658.21	825689.07	825707.82	825719.29	825723.44	824308.80	824410.24	824391.30	824392.29	824251.90	824410.24	824391.30	824392.29	824167.85	824312.78	824312.67
	841828.94	841794.48	841886.19	841848.24	841817.88	841790.19	841733.37	839540.78	839470.26	839419.14	839421.41	839630.42	839470.26	839419.14	839421.41	839140.50	839033.45	839033.29
Vertice 2	825647.67	825620.22	825704.22	825710.43	825738.96	825743.07	825743.44	824312.76	824424.41	824403.98	824411.95	824260.51	824424.41	824403.98	824411.95	824176.22	824323.46	824370.51
	841821.85	841788.04	841865.70	841863.06	841825.24	841786.97	841719.97	839552.11	839459.15	839416.29	839449.71	839638.78	839459.15	839416.29	839449.71	839145.97	839026.05	839122.24
Vertice 3	825622.69	825577.15	825695.28	825734.07	825746.75	825738.97	825733.42	824390.81	824402.58	824396.87	824444.06	824276.42	824402.58	824396.87	824444.06	824201.27	824246.60	824380.30
	841787.72	841756.44	841845.60	841828.97	841792.26	841756.68	841705.02	839524.26	839431.30	839384.74	839473.46	839622.31	839431.30	839384.74	839473.46	839107.58	838915.24	839145.31
Vertice 4	825613.01	825517.77	825649.26	825712.71	825715.61	825730.03	825713.43	824422.57	824406.17	824403.35	824747.38	824314.95	824406.17	824402.37	824559.17	824229.01	824177.62	824390.33
	841794.81	841725.61	841866.09	841814.15	841784.90	841722.80	841718.41	839467.62	839420.57	839194.12	839601.77	839551.34	839420.57	839223.11	839522.19	839085.68	838805.71	839194.45
Vertice 5	-	825514.08	-	-	-	825706.84	-	824412.08	824389.10	824392.52	824752.44	824390.81	824389.10	824389.38	824564.24	824320.57	824139.43	824389.38
	-	841732.71	-	-	-	841728.98	-	839461.79	839414.86	839140.83	839589.80	839524.26	839414.86	839222.67	839510.22	839034.11	838717.91	839222.67
Vertice 6	-	825573.19	-	-	-	825715.29	-	824382.50	824383.64	824381.72	824450.55	824422.57	824383.64	824384.01	824450.55	824315.66	824127.51	824384.35
	-	841763.39	-	-	-	841760.65	-	839515.04	839434.56	839115.63	839462.15	839467.62	839434.56	839386.79	839462.15	839025.39	838723.09	839370.37
Vertice 7	-	-	-	-	-	-	-	-	-	824328.58	824421.35	824412.08	-	-	824421.35	824223.11	824166.22	824397.35
	-	-	-	-	-	-	-	-	-	839033.92	839440.60	839461.79	-	-	839440.60	839077.59	838812.01	839370.81
Vertice 8	-	-	-	-	-	-	-	-	-	824317.68	824402.98	824382.50	-	-	824402.98	824193.84	824235.83	824402.37
	-	-	-	-	-	-	-	-	-	839041.00	839414.02	839515.04	-	-	839414.02	839100.79	838922.53	839223.11
Vertice 9	-	-	-	-	-	-	-	-	-	824370.51	-	824306.55	-	-	-	-	-	824403.35
	-	-	-	-	-	-	-	-	-	839122.24	-	839542.10	-	-	-	-	-	839194.12
Vertice 10	-	-	-	-	-	-	-	-	-	824380.30	-	824266.71	-	-	-	-	-	824392.91
	-	-	-	-	-	-	-	-	-	839145.31	-	839615.17	-	-	-	-	-	839142.07
Vertice 11	-	-	-	-	-	-	-	-	-	824390.33	-	-	-	-	-	-	-	824381.72
	-	-	-	-	-	-	-	-	-	839194.45	-	-	-	-	-	-	-	839115.63
Vertice 12	-	-	-	-	-	-	-	-	-	824384.01	-	-	-	-	-	-	-	824323.57
	-	-	-	-	-	-	-	-	-	839386.79	-	-	-	-	-	-	-	839026.21
Vertice 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Vertice 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Vertice 17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hourly Profile for Emission inside Parking Area

PTI in Pang Loon Tei

Hour	Emission Within PTI Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.029E-03	1.987E-04	2.625E-05	2.422E-05
0700 - 0800	3.602E-03	6.955E-04	9.188E-05	8.476E-05
0800 - 0900	3.602E-03	6.955E-04	9.188E-05	8.476E-05
0900 - 1000	2.058E-03	3.974E-04	5.250E-05	4.844E-05
1000 - 1100	1.544E-03	2.981E-04	3.938E-05	3.633E-05
1100 - 1200	1.029E-03	1.987E-04	2.625E-05	2.422E-05
1200 - 1300	1.544E-03	2.981E-04	3.938E-05	3.633E-05
1300 - 1400	1.029E-03	1.987E-04	2.625E-05	2.422E-05
1400 - 1500	1.029E-03	1.987E-04	2.625E-05	2.422E-05
1500 - 1600	1.544E-03	2.981E-04	3.938E-05	3.633E-05
1600 - 1700	2.058E-03	3.974E-04	5.250E-05	4.844E-05
1700 - 1800	2.573E-03	4.968E-04	6.563E-05	6.055E-05
1800 - 1900	3.602E-03	6.955E-04	9.188E-05	8.476E-05
1900 - 2000	2.058E-03	3.974E-04	5.250E-05	4.844E-05
2000 - 2100	1.544E-03	2.981E-04	3.938E-05	3.633E-05
2100 - 2200	1.029E-03	1.987E-04	2.625E-05	2.422E-05
2200 - 2300	1.029E-03	1.987E-04	2.625E-05	2.422E-05
2300 - 2400	5.145E-04	9.935E-05	1.313E-05	1.211E-05
	3.602E-03	6.955E-04	9.188E-05	8.476E-05

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.286	0.286	0.286	0.286
1.000	1.000	1.000	1.000
1.000	1.000	1.000	1.000
0.571	0.571	0.571	0.571
0.429	0.429	0.429	0.429
0.286	0.286	0.286	0.286
0.429	0.429	0.429	0.429
0.286	0.286	0.286	0.286
0.286	0.286	0.286	0.286
0.429	0.429	0.429	0.429
0.571	0.571	0.571	0.571
0.714	0.714	0.714	0.714
1.000	1.000	1.000	1.000
0.571	0.571	0.571	0.571
0.429	0.429	0.429	0.429
0.286	0.286	0.286	0.286
0.286	0.286	0.286	0.286
0.143	0.143	0.143	0.143

Lok Ma Chau Station PTI

Hour	Emission Within PTI Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	6.857E-04	1.112E-04	1.451E-05	1.348E-05
0700 - 0800	1.874E-03	3.123E-04	4.007E-05	3.720E-05
0800 - 0900	1.965E-03	3.230E-04	4.180E-05	3.882E-05
0900 - 1000	9.827E-04	1.615E-04	2.090E-05	1.941E-05
1000 - 1100	6.857E-04	1.112E-04	1.451E-05	1.348E-05
1100 - 1200	6.857E-04	1.112E-04	1.451E-05	1.348E-05
1200 - 1300	6.857E-04	1.112E-04	1.451E-05	1.348E-05
1300 - 1400	6.857E-04	1.112E-04	1.451E-05	1.348E-05
1400 - 1500	6.857E-04	1.112E-04	1.451E-05	1.348E-05
1500 - 1600	9.827E-04	1.615E-04	2.090E-05	1.941E-05
1600 - 1700	9.827E-04	1.615E-04	2.090E-05	1.941E-05
1700 - 1800	1.280E-03	2.118E-04	2.729E-05	2.534E-05
1800 - 1900	1.965E-03	3.230E-04	4.180E-05	3.882E-05
1900 - 2000	1.280E-03	2.118E-04	2.729E-05	2.534E-05
2000 - 2100	6.857E-04	1.112E-04	1.451E-05	1.348E-05
2100 - 2200	6.857E-04	1.112E-04	1.451E-05	1.348E-05
2200 - 2300	3.887E-04	6.092E-05	8.124E-06	7.547E-06
2300 - 2400	2.970E-04	5.028E-05	6.389E-06	5.931E-06
	1.965E-03	3.230E-04	4.180E-05	3.882E-05

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.349	0.344	0.347	0.347
0.953	0.967	0.958	0.958
1.000	1.000	1.000	1.000
0.500	0.500	0.500	0.500
0.349	0.344	0.347	0.347
0.349	0.344	0.347	0.347
0.349	0.344	0.347	0.347
0.349	0.344	0.347	0.347
0.349	0.344	0.347	0.347
0.500	0.500	0.500	0.500
0.500	0.500	0.500	0.500
0.651	0.656	0.653	0.653
1.000	1.000	1.000	1.000
0.651	0.656	0.653	0.653
0.349	0.344	0.347	0.347
0.349	0.344	0.347	0.347
0.198	0.189	0.194	0.194
0.151	0.156	0.153	0.153

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hourly Profile for Emission inside Parking Area

Lok Ma Chau Loop PTI

Hour	Emission Within PTI - Total Emission Rate (g/s)				Hourly Profile			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	7.280E-04	1.408E-04	1.778E-05	1.642E-05	0.065	0.065	0.065	0.065
0100 - 0200	3.640E-04	7.039E-05	8.890E-06	8.212E-06	0.032	0.032	0.032	0.032
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000	0.000	0.000	0.000
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000	0.000	0.000	0.000
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000	0.000	0.000	0.000
0500 - 0600	7.280E-04	1.408E-04	1.778E-05	1.642E-05	0.065	0.065	0.065	0.065
0600 - 0700	3.640E-03	7.039E-04	8.890E-05	8.212E-05	0.323	0.323	0.323	0.323
0700 - 0800	1.056E-02	2.041E-03	2.578E-04	2.381E-04	0.935	0.935	0.935	0.935
0800 - 0900	1.092E-02	2.112E-03	2.667E-04	2.464E-04	0.968	0.968	0.968	0.968
0900 - 1000	5.824E-03	1.126E-03	1.422E-04	1.314E-04	0.516	0.516	0.516	0.516
1000 - 1100	4.368E-03	8.446E-04	1.067E-04	9.854E-05	0.387	0.387	0.387	0.387
1100 - 1200	3.640E-03	7.039E-04	8.890E-05	8.212E-05	0.323	0.323	0.323	0.323
1200 - 1300	4.004E-03	7.742E-04	9.779E-05	9.033E-05	0.355	0.355	0.355	0.355
1300 - 1400	3.640E-03	7.039E-04	8.890E-05	8.212E-05	0.323	0.323	0.323	0.323
1400 - 1500	3.640E-03	7.039E-04	8.890E-05	8.212E-05	0.323	0.323	0.323	0.323
1500 - 1600	5.460E-03	1.056E-03	1.333E-04	1.232E-04	0.484	0.484	0.484	0.484
1600 - 1700	6.188E-03	1.197E-03	1.511E-04	1.396E-04	0.548	0.548	0.548	0.548
1700 - 1800	7.644E-03	1.478E-03	1.867E-04	1.724E-04	0.677	0.677	0.677	0.677
1800 - 1900	1.128E-02	2.182E-03	2.756E-04	2.546E-04	1.000	1.000	1.000	1.000
1900 - 2000	6.916E-03	1.337E-03	1.689E-04	1.560E-04	0.613	0.613	0.613	0.613
2000 - 2100	4.368E-03	8.446E-04	1.067E-04	9.854E-05	0.387	0.387	0.387	0.387
2100 - 2200	3.640E-03	7.039E-04	8.890E-05	8.212E-05	0.323	0.323	0.323	0.323
2200 - 2300	2.548E-03	4.927E-04	6.223E-05	5.748E-05	0.226	0.226	0.226	0.226
2300 - 2400	1.820E-03	3.519E-04	4.445E-05	4.106E-05	0.161	0.161	0.161	0.161
	1.128E-02	2.182E-03	2.756E-04	2.546E-04				

Mai Po Warehouse

Hour	Emission Within Carpark - Total Emission Rate (g/s)				Hourly Profile			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000	0.000	0.000	0.000
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000	0.000	0.000	0.000
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000	0.000	0.000	0.000
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000	0.000	0.000	0.000
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000	0.000	0.000	0.000
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000	0.000	0.000	0.000
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000	0.000	0.000	0.000
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000	0.000	0.000	0.000
0800 - 0900	3.641E-04	9.163E-05	8.644E-06	8.276E-06	0.440	0.234	0.611	0.634
0900 - 1000	6.691E-04	2.650E-04	1.064E-05	1.010E-05	0.809	0.676	0.753	0.774
1000 - 1100	1.761E-04	8.231E-05	3.899E-06	3.599E-06	0.213	0.210	0.276	0.276
1100 - 1200	5.426E-04	1.631E-04	1.248E-05	1.183E-05	0.656	0.416	0.883	0.906
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000	0.000	0.000	0.000
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000	0.000	0.000	0.000
1400 - 1500	3.184E-04	9.557E-05	6.407E-06	5.934E-06	0.385	0.244	0.453	0.454
1500 - 1600	8.268E-04	3.920E-04	1.414E-05	1.306E-05	1.000	1.000	1.000	1.000
1600 - 1700	3.898E-04	1.310E-04	5.722E-06	5.288E-06	0.472	0.334	0.405	0.405
1700 - 1800	1.405E-04	6.271E-05	3.595E-06	3.323E-06	0.170	0.160	0.254	0.254
1800 - 1900	1.857E-04	8.019E-05	8.024E-06	7.411E-06	0.225	0.205	0.568	0.568
1900 - 2000	1.897E-05	1.040E-06	9.581E-07	8.919E-07	0.023	0.003	0.068	0.068
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000	0.000	0.000	0.000
2100 - 2200	1.796E-04	8.391E-05	3.899E-06	3.599E-06	0.217	0.214	0.276	0.276
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000	0.000	0.000	0.000
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000	0.000	0.000	0.000
	8.268E-04	3.920E-04	1.414E-05	1.306E-05				

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hourly Profile for Emission inside Parking Area

Mega Wheel Warehouse

Hour	Emission Within Carpark – Total Emission Rate (g/s) NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.803E-03	1.144E-03	4.270E-05	3.942E-05
0700 - 0800	1.992E-03	9.123E-04	3.128E-05	2.884E-05
0800 - 0900	5.423E-03	2.587E-03	8.400E-05	7.740E-05
0900 - 1000	3.298E-03	1.351E-03	5.049E-05	4.652E-05
1000 - 1100	3.296E-03	1.381E-03	6.390E-05	5.890E-05
1100 - 1200	1.654E-03	7.284E-04	4.144E-05	3.819E-05
1200 - 1300	3.576E-03	1.682E-03	8.719E-05	8.038E-05
1300 - 1400	5.027E-03	2.300E-03	1.147E-04	1.058E-04
1400 - 1500	5.736E-03	2.550E-03	1.132E-04	1.044E-04
1500 - 1600	4.984E-03	2.149E-03	1.043E-04	9.611E-05
1600 - 1700	3.866E-03	1.816E-03	9.706E-05	8.947E-05
1700 - 1800	4.341E-03	1.840E-03	9.033E-05	8.333E-05
1800 - 1900	5.687E-03	2.474E-03	1.459E-04	1.345E-04
1900 - 2000	9.483E-04	4.117E-04	2.518E-05	2.321E-05
2000 - 2100	1.945E-03	6.822E-04	4.016E-05	3.713E-05
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	5.736E-03	2.587E-03	1.459E-04	1.345E-04

Hourly Profile NO	NO_2	RSP	FSP
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.489	0.442	0.293	0.293
0.347	0.353	0.214	0.214
0.946	1.000	0.576	0.575
0.575	0.522	0.346	0.346
0.575	0.534	0.438	0.438
0.288	0.282	0.284	0.284
0.623	0.650	0.597	0.598
0.876	0.889	0.786	0.787
1.000	0.986	0.776	0.776
0.869	0.831	0.715	0.714
0.674	0.702	0.665	0.665
0.757	0.711	0.619	0.619
0.991	0.956	1.000	1.000
0.165	0.159	0.173	0.173
0.339	0.264	0.275	0.276
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000

Hop Kwan Hung To Parking Lot

Hour	Emission Within Carpark – Total Emission Rate (g/s) NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	8.577E-04	2.363E-04	1.642E-05	1.559E-05
0700 - 0800	7.911E-04	3.629E-04	1.184E-05	1.092E-05
0800 - 0900	1.841E-03	8.280E-04	2.958E-05	2.769E-05
0900 - 1000	1.445E-03	5.770E-04	2.148E-05	1.980E-05
1000 - 1100	1.202E-03	4.477E-04	2.541E-05	2.386E-05
1100 - 1200	5.182E-04	1.470E-04	1.645E-05	1.559E-05
1200 - 1300	1.111E-03	3.768E-04	3.450E-05	3.309E-05
1300 - 1400	1.336E-03	4.020E-04	4.023E-05	3.841E-05
1400 - 1500	2.062E-03	8.132E-04	4.364E-05	4.110E-05
1500 - 1600	2.118E-03	9.229E-04	4.405E-05	4.061E-05
1600 - 1700	1.197E-03	4.393E-04	3.616E-05	3.420E-05
1700 - 1800	1.414E-03	4.815E-04	3.327E-05	3.157E-05
1800 - 1900	1.919E-03	5.599E-04	6.219E-05	5.903E-05
1900 - 2000	2.077E-04	8.361E-06	9.670E-06	9.334E-06
2000 - 2100	7.686E-04	2.696E-04	1.669E-05	1.545E-05
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	2.118E-03	9.229E-04	6.219E-05	5.903E-05

Hourly Profile NO	NO_2	RSP	FSP
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.405	0.256	0.264	0.264
0.373	0.393	0.190	0.185
0.869	0.897	0.476	0.469
0.682	0.625	0.345	0.335
0.567	0.485	0.409	0.404
0.245	0.159	0.265	0.264
0.524	0.408	0.555	0.561
0.631	0.436	0.647	0.651
0.973	0.881	0.702	0.696
1.000	1.000	0.708	0.688
0.565	0.476	0.581	0.579
0.668	0.522	0.535	0.535
0.906	0.607	1.000	1.000
0.098	0.009	0.155	0.158
0.363	0.292	0.268	0.262
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hourly Profile for Start Emission outside Parking Area

PTI in Pang Loon Tei

Hour	Emission Outside PTI Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	3.764E-04	8.182E-05	0.000E+00	0.000E+00
0700 - 0800	1.317E-03	2.864E-04	0.000E+00	0.000E+00
0800 - 0900	1.317E-03	2.864E-04	0.000E+00	0.000E+00
0900 - 1000	7.527E-04	1.636E-04	0.000E+00	0.000E+00
1000 - 1100	5.646E-04	1.227E-04	0.000E+00	0.000E+00
1100 - 1200	3.764E-04	8.182E-05	0.000E+00	0.000E+00
1200 - 1300	5.646E-04	1.227E-04	0.000E+00	0.000E+00
1300 - 1400	3.764E-04	8.182E-05	0.000E+00	0.000E+00
1400 - 1500	3.764E-04	8.182E-05	0.000E+00	0.000E+00
1500 - 1600	5.646E-04	1.227E-04	0.000E+00	0.000E+00
1600 - 1700	7.527E-04	1.636E-04	0.000E+00	0.000E+00
1700 - 1800	9.409E-04	2.045E-04	0.000E+00	0.000E+00
1800 - 1900	1.317E-03	2.864E-04	0.000E+00	0.000E+00
1900 - 2000	7.527E-04	1.636E-04	0.000E+00	0.000E+00
2000 - 2100	5.646E-04	1.227E-04	0.000E+00	0.000E+00
2100 - 2200	3.764E-04	8.182E-05	0.000E+00	0.000E+00
2200 - 2300	3.764E-04	8.182E-05	0.000E+00	0.000E+00
2300 - 2400	1.882E-04	4.091E-05	0.000E+00	0.000E+00
	1.317E-03	2.864E-04	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.286	0.286		
1.000	1.000		
1.000	1.000		
0.571	0.571		
0.429	0.429		
0.286	0.286		
0.429	0.429		
0.286	0.286		
0.286	0.286		
0.429	0.429		
0.571	0.571		
0.714	0.714		
1.000	1.000		
0.571	0.571		
0.429	0.429		
0.286	0.286		
0.286	0.286		
0.143	0.143		

Lok Ma Chau Station PTI (FBDD and Minibus Diesel)

Hour	Emission Outside PTI Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	4.917E-04	1.183E-04	0.000E+00	0.000E+00
0700 - 0800	1.431E-03	3.376E-04	0.000E+00	0.000E+00
0800 - 0900	1.453E-03	3.462E-04	0.000E+00	0.000E+00
0900 - 1000	7.265E-04	1.731E-04	0.000E+00	0.000E+00
1000 - 1100	4.917E-04	1.183E-04	0.000E+00	0.000E+00
1100 - 1200	4.917E-04	1.183E-04	0.000E+00	0.000E+00
1200 - 1300	4.917E-04	1.183E-04	0.000E+00	0.000E+00
1300 - 1400	4.917E-04	1.183E-04	0.000E+00	0.000E+00
1400 - 1500	4.917E-04	1.183E-04	0.000E+00	0.000E+00
1500 - 1600	7.265E-04	1.731E-04	0.000E+00	0.000E+00
1600 - 1700	7.265E-04	1.731E-04	0.000E+00	0.000E+00
1700 - 1800	9.613E-04	2.279E-04	0.000E+00	0.000E+00
1800 - 1900	1.453E-03	3.462E-04	0.000E+00	0.000E+00
1900 - 2000	9.613E-04	2.279E-04	0.000E+00	0.000E+00
2000 - 2100	4.917E-04	1.183E-04	0.000E+00	0.000E+00
2100 - 2200	4.917E-04	1.183E-04	0.000E+00	0.000E+00
2200 - 2300	2.569E-04	6.343E-05	0.000E+00	0.000E+00
2300 - 2400	2.348E-04	5.484E-05	0.000E+00	0.000E+00
	1.453E-03	3.462E-04	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.338	0.342		
0.985	0.975		
1.000	1.000		
0.500	0.500		
0.338	0.342		
0.338	0.342		
0.338	0.342		
0.338	0.342		
0.338	0.342		
0.500	0.500		
0.500	0.500		
0.662	0.658		
1.000	1.000		
0.662	0.658		
0.338	0.342		
0.338	0.342		
0.177	0.183		
0.162	0.158		

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hourly Profile for Start Emission outside Parking Area

Lok Ma Chau Station PTI (Minibus LPG)

Hour	Emission Outside PTI - Total Emission Rate (g/s) NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.500E-04	1.258E-06	0.000E+00	0.000E+00
0700 - 0800	5.834E-04	2.936E-06	0.000E+00	0.000E+00
0800 - 0900	6.668E-04	3.355E-06	0.000E+00	0.000E+00
0900 - 1000	3.334E-04	1.678E-06	0.000E+00	0.000E+00
1000 - 1100	2.500E-04	1.258E-06	0.000E+00	0.000E+00
1100 - 1200	2.500E-04	1.258E-06	0.000E+00	0.000E+00
1200 - 1300	2.500E-04	1.258E-06	0.000E+00	0.000E+00
1300 - 1400	2.500E-04	1.258E-06	0.000E+00	0.000E+00
1400 - 1500	2.500E-04	1.258E-06	0.000E+00	0.000E+00
1500 - 1600	3.334E-04	1.678E-06	0.000E+00	0.000E+00
1600 - 1700	3.334E-04	1.678E-06	0.000E+00	0.000E+00
1700 - 1800	4.167E-04	2.097E-06	0.000E+00	0.000E+00
1800 - 1900	6.668E-04	3.355E-06	0.000E+00	0.000E+00
1900 - 2000	4.167E-04	2.097E-06	0.000E+00	0.000E+00
2000 - 2100	2.500E-04	1.258E-06	0.000E+00	0.000E+00
2100 - 2200	2.500E-04	1.258E-06	0.000E+00	0.000E+00
2200 - 2300	1.667E-04	8.388E-07	0.000E+00	0.000E+00
2300 - 2400	8.335E-05	4.194E-07	0.000E+00	0.000E+00
	6.668E-04	3.355E-06	0.000E+00	0.000E+00

Hour	Hourly Profile NO	NO_2	RSP	FSP
0000 - 0100	0.000	0.000		
0100 - 0200	0.000	0.000		
0200 - 0300	0.000	0.000		
0300 - 0400	0.000	0.000		
0400 - 0500	0.000	0.000		
0500 - 0600	0.000	0.000		
0600 - 0700	0.375	0.375		
0700 - 0800	0.875	0.875		
0800 - 0900	1.000	1.000		
0900 - 1000	0.500	0.500		
1000 - 1100	0.375	0.375		
1100 - 1200	0.375	0.375		
1200 - 1300	0.375	0.375		
1300 - 1400	0.375	0.375		
1400 - 1500	0.375	0.375		
1500 - 1600	0.500	0.500		
1600 - 1700	0.500	0.500		
1700 - 1800	0.625	0.625		
1800 - 1900	1.000	1.000		
1900 - 2000	0.625	0.625		
2000 - 2100	0.375	0.375		
2100 - 2200	0.375	0.375		
2200 - 2300	0.250	0.250		
2300 - 2400	0.125	0.125		

Lok Ma Chau Loop PTI

Hour	Emission Outside PTI - Total Emission Rate (g/s) NO	NO_2	RSP	FSP
0000 - 0100	3.927E-04	8.537E-05	0.000E+00	0.000E+00
0100 - 0200	1.964E-04	4.269E-05	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	3.927E-04	8.537E-05	0.000E+00	0.000E+00
0600 - 0700	1.964E-03	4.269E-04	0.000E+00	0.000E+00
0700 - 0800	5.695E-03	1.238E-03	0.000E+00	0.000E+00
0800 - 0900	5.891E-03	1.281E-03	0.000E+00	0.000E+00
0900 - 1000	3.142E-03	6.830E-04	0.000E+00	0.000E+00
1000 - 1100	2.356E-03	5.122E-04	0.000E+00	0.000E+00
1100 - 1200	1.964E-03	4.269E-04	0.000E+00	0.000E+00
1200 - 1300	2.160E-03	4.695E-04	0.000E+00	0.000E+00
1300 - 1400	1.964E-03	4.269E-04	0.000E+00	0.000E+00
1400 - 1500	1.964E-03	4.269E-04	0.000E+00	0.000E+00
1500 - 1600	2.945E-03	6.403E-04	0.000E+00	0.000E+00
1600 - 1700	3.338E-03	7.257E-04	0.000E+00	0.000E+00
1700 - 1800	4.124E-03	8.964E-04	0.000E+00	0.000E+00
1800 - 1900	6.087E-03	1.323E-03	0.000E+00	0.000E+00
1900 - 2000	3.731E-03	8.110E-04	0.000E+00	0.000E+00
2000 - 2100	2.356E-03	5.122E-04	0.000E+00	0.000E+00
2100 - 2200	1.964E-03	4.269E-04	0.000E+00	0.000E+00
2200 - 2300	1.375E-03	2.988E-04	0.000E+00	0.000E+00
2300 - 2400	9.818E-04	2.134E-04	0.000E+00	0.000E+00
	6.087E-03	1.323E-03	0.000E+00	0.000E+00

Hour	Hourly Profile NO	NO_2	RSP	FSP
0000 - 0100	0.065	0.065		
0100 - 0200	0.032	0.032		
0200 - 0300	0.000	0.000		
0300 - 0400	0.000	0.000		
0400 - 0500	0.000	0.000		
0500 - 0600	0.065	0.065		
0600 - 0700	0.323	0.323		
0700 - 0800	0.935	0.935		
0800 - 0900	0.968	0.968		
0900 - 1000	0.516	0.516		
1000 - 1100	0.387	0.387		
1100 - 1200	0.323	0.323		
1200 - 1300	0.355	0.355		
1300 - 1400	0.323	0.323		
1400 - 1500	0.323	0.323		
1500 - 1600	0.484	0.484		
1600 - 1700	0.548	0.548		
1700 - 1800	0.677	0.677		
1800 - 1900	1.000	1.000		
1900 - 2000	0.613	0.613		
2000 - 2100	0.387	0.387		
2100 - 2200	0.323	0.323		
2200 - 2300	0.226	0.226		
2300 - 2400	0.161	0.161		

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hourly Profile for Start Emission outside Parking Area

Mai Po Warehouse

Hour	Emission Outside Carpark Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.089E-04	5.082E-05	0.000E+00	0.000E+00
0900 - 1000	7.161E-04	3.462E-04	0.000E+00	0.000E+00
1000 - 1100	4.177E-05	1.919E-05	0.000E+00	0.000E+00
1100 - 1200	1.730E-04	7.839E-05	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.236E-04	5.920E-05	0.000E+00	0.000E+00
1500 - 1600	6.408E-04	3.129E-04	0.000E+00	0.000E+00
1600 - 1700	1.311E-04	6.005E-05	0.000E+00	0.000E+00
1700 - 1800	6.495E-05	2.970E-05	0.000E+00	0.000E+00
1800 - 1900	7.404E-05	3.640E-05	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	6.263E-05	2.878E-05	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	7.161E-04	3.462E-04	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.152	0.147		
1.000	1.000		
0.058	0.055		
0.242	0.226		
0.000	0.000		
0.000	0.000		
0.173	0.171		
0.895	0.904		
0.183	0.173		
0.091	0.086		
0.103	0.105		
0.000	0.000		
0.000	0.000		
0.087	0.083		
0.000	0.000		
0.000	0.000		

Mega Wheel Warehouse

Hour	Emission Outside Carpark Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.077E-03	9.652E-04	0.000E+00	0.000E+00
0700 - 0800	1.565E-03	7.109E-04	0.000E+00	0.000E+00
0800 - 0900	3.685E-03	1.774E-03	0.000E+00	0.000E+00
0900 - 1000	2.141E-03	1.050E-03	0.000E+00	0.000E+00
1000 - 1100	1.551E-03	7.111E-04	0.000E+00	0.000E+00
1100 - 1200	2.302E-04	1.067E-04	0.000E+00	0.000E+00
1200 - 1300	2.599E-04	1.195E-04	0.000E+00	0.000E+00
1300 - 1400	1.602E-03	7.389E-04	0.000E+00	0.000E+00
1400 - 1500	2.185E-03	1.044E-03	0.000E+00	0.000E+00
1500 - 1600	1.013E-03	4.371E-04	0.000E+00	0.000E+00
1600 - 1700	4.606E-04	2.178E-04	0.000E+00	0.000E+00
1700 - 1800	1.008E-03	4.627E-04	0.000E+00	0.000E+00
1800 - 1900	9.020E-04	4.265E-04	0.000E+00	0.000E+00
1900 - 2000	2.166E-04	1.014E-04	0.000E+00	0.000E+00
2000 - 2100	1.211E-03	5.145E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	3.685E-03	1.774E-03	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.564	0.544		
0.425	0.401		
1.000	1.000		
0.581	0.592		
0.421	0.401		
0.062	0.060		
0.071	0.067		
0.435	0.417		
0.593	0.589		
0.275	0.246		
0.125	0.123		
0.273	0.261		
0.245	0.241		
0.059	0.057		
0.329	0.290		
0.000	0.000		
0.000	0.000		
0.000	0.000		

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2034

Hourly Profile for Start Emission outside Parking Area

Hop Kwan Hung To Parking Lot

Hour	Emission Outside Carpark – Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.142E-03	5.309E-04	0.000E+00	0.000E+00
0700 - 0800	8.606E-04	3.910E-04	0.000E+00	0.000E+00
0800 - 0900	1.752E-03	8.404E-04	0.000E+00	0.000E+00
0900 - 1000	1.198E-03	5.871E-04	0.000E+00	0.000E+00
1000 - 1100	8.824E-04	4.055E-04	0.000E+00	0.000E+00
1100 - 1200	1.291E-04	5.964E-05	0.000E+00	0.000E+00
1200 - 1300	1.429E-04	6.575E-05	0.000E+00	0.000E+00
1300 - 1400	8.214E-04	3.785E-04	0.000E+00	0.000E+00
1400 - 1500	1.231E-03	5.887E-04	0.000E+00	0.000E+00
1500 - 1600	5.636E-04	2.437E-04	0.000E+00	0.000E+00
1600 - 1700	2.534E-04	1.198E-04	0.000E+00	0.000E+00
1700 - 1800	5.541E-04	2.545E-04	0.000E+00	0.000E+00
1800 - 1900	5.802E-04	2.740E-04	0.000E+00	0.000E+00
1900 - 2000	1.191E-04	5.576E-05	0.000E+00	0.000E+00
2000 - 2100	6.662E-04	2.830E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	1.752E-03	8.404E-04	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.652	0.632		
0.491	0.465		
1.000	1.000		
0.684	0.699		
0.504	0.482		
0.074	0.071		
0.082	0.078		
0.469	0.450		
0.703	0.700		
0.322	0.290		
0.145	0.143		
0.316	0.303		
0.331	0.326		
0.068	0.066		
0.380	0.337		
0.000	0.000		
0.000	0.000		
0.000	0.000		

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Calculation of Iding Emission Factor

PC (Diesel)

NO/NO_2 Ratio = 5.12 From EMFAC [1]

	Population [20]	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/hr) [3]	PM (g/hr) [3]	NOx (g/hr) [5]	PM (g/hr) [6]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	90.53%	1.61E+00	5.00E-02	1.61E+00	5.00E-02	-	1.3	3.869E-02	3.236E-02	6.326E-03	1.024E-03	3.869E-02	3.236E-02	6.326E-03	1.024E-03
Euro V	9.41%	3.45E+00	2.00E-02	3.45E+00	2.00E-02										
Euro IV	0.05%	5.96E+00	1.60E-01	5.96E+00	1.60E-01										
Euro I	0.01%	4.88E+00	5.80E-01	4.88E+00	5.80E-01										
Pre-Euro	0.00%	6.57E+00	6.30E-01	6.57E+00	6.30E-01										

PC (Petrol)

NO/NO_2 Ratio = 19.20 From EMFAC [1]

	Population [20]	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/hr) [3]	PM (g/hr) [3]	NOx (g/hr) [7]	PM (g/hr) [8]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	97.83%	6.00E-02	0.00E+00	6.00E-02	0.00E+00	-	1.3	1.322E-03	1.257E-03	6.547E-05	3.935E-06	1.322E-03	1.257E-03	6.547E-05	3.935E-06
Euro V	1.81%	8.00E-02	1.00E-02	8.00E-02	1.00E-02										
Euro IV	0.33%	2.30E-01	0.00E+00	2.30E-01	0.00E+00										
Euro III	0.03%	3.00E-01	0.00E+00	3.00E-01	0.00E+00										
Euro II	0.00%	9.60E-01	1.00E-02	9.60E-01	1.00E-02										
Euro I	0.00%	7.60E-01	1.00E-02	7.60E-01	1.00E-02										
Pre-Euro	0.00%	1.18E+00	1.00E-02	1.18E+00	1.00E-02										

Taxi (Petrol)

NO/NO_2 Ratio [1] = 19.27 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/hr) [3]	PM (g/hr) [3]	NOx (g/hr) [9]	PM (g/hr) [9]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro V	100.00%	8.00E-02	1.00E-02	8.00E-02	1.00E-02	-	1.3	1.733E-03	1.648E-03	8.550E-05	2.167E-04	1.733E-03	1.648E-03	8.550E-05	2.167E-04

Taxi (LPG)

NO/NO_2 Ratio = 35.58 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2]	PM (g/hr) [3]	NOx (g/hr) [10]	PM (g/hr) [10]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	99.50%	2.80E-03	0.00E+00	1.01E+01	0.00E+00	-	1.3	1.680E-01	1.634E-01	4.593E-03	0.000E+00	2.184E-01	2.124E-01	5.971E-03	0.000E+00
Euro V	0.49%	2.80E-03	0.00E+00	1.01E+01	0.00E+00										
Euro IV	0.00%	3.50E-03	0.00E+00	1.26E+01	0.00E+00										
Euro II/III	0.00%	5.70E-03	0.00E+00	2.05E+01	0.00E+00										

LGV3 (Diesel)

NO/NO_2 Ratio = 16.46 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/hr) [3]	PM (g/hr) [3]	NOx (g/hr) [11]	PM (g/hr) [12]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	99.51%	1.28E+00	2.00E-02	1.28E+00	2.00E-02	-	1.3	2.798E-02	2.638E-02	1.602E-03	4.333E-04	2.798E-02	2.638E-02	1.602E-03	4.333E-04
Euro V	0.49%	3.60E+00	2.00E-02	3.60E+00	2.00E-02										

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Calculation of Iding Emission Factor

LGV3 (Petrol)

NO/NO_2 Ratio = 19.19 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/hr) [3]	PM (g/hr) [3]	NOx (g/hr) [13]	PM (g/hr) [14]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	96.94%	7.00E-02	0.00E+00	7.00E-02	0.00E+00	-	1.3	1.601E-03	1.522E-03	7.933E-05	5.835E-07	1.601E-03	1.522E-03	7.933E-05	5.835E-07
Euro V	2.09%	6.00E-02	0.00E+00	6.00E-02	0.00E+00										
Euro IV	0.37%	1.70E-01	0.00E+00	1.70E-01	0.00E+00										
Euro III	0.33%	3.40E-01	0.00E+00	3.40E-01	0.00E+00										
Euro II	0.12%	6.00E-01	1.00E-02	6.00E-01	1.00E-02										
Euro I	0.13%	1.69E+00	1.00E-02	1.69E+00	1.00E-02										
Pre-Euro	0.02%	6.60E-01	1.00E-02	6.60E-01	1.00E-02										

LGV6 (Diesel)

NO/NO_2 Ratio = 2.57 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor [17]	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [15]	PM (g/hr) [16]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	99.80%	1.00E-03	1.00E-02	1.75E+00	1.00E-02	0.9	1.3	6.022E-02	4.336E-02	1.686E-02	1.986E-04	3.452E-02	2.485E-02	9.665E-03	1.986E-04
Euro V	0.20%	2.80E-03	1.00E-01	1.17E+01	1.00E-01										
Euro IV	0.00%	2.80E-03	2.00E-01	7.51E+00	2.00E-01										
Euro III	0.00%	2.80E-03	1.29E+00	4.21E+01	1.29E+00										
Euro II	0.00%	2.80E-03	1.43E+00	4.06E+01	1.43E+00										
Euro I	0.00%	2.80E-03	5.53E+00	3.26E+01	5.53E+00										
Pre-Euro	0.00%	2.80E-03	6.62E+00	4.06E+01	6.62E+00										

HGV7 (Diesel)

NO/NO_2 Ratio = 2.04 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor [17]	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [15]	PM (g/hr) [16]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	99.59%	5.90E-03	1.00E-02	1.75E+00	1.00E-02	0.9	1.3	3.540E-01	2.374E-01	1.166E-01	2.022E-04	3.493E-02	2.342E-02	1.151E-02	2.022E-04
Euro V	0.41%	5.90E-03	1.00E-01	1.17E+01	1.00E-01										
Euro IV	0.00%	5.90E-03	2.00E-01	7.51E+00	2.00E-01										

HGV8 (Diesel)

NO/NO_2 Ratio = 2.04 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor [17]	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [15]	PM (g/hr) [16]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	99.69%	3.70E-03	1.00E-02	1.75E+00	1.00E-02	1.0	1.3	2.256E-01	1.515E-01	7.409E-02	2.227E-04	3.858E-02	2.591E-02	1.267E-02	2.227E-04
Euro V	0.31%	2.30E-02	1.00E-01	1.17E+01	1.00E-01										
Euro IV	0.00%	1.44E-02	2.00E-01	7.51E+00	2.00E-01										
Euro III	0.00%	1.44E-02	1.29E+00	4.21E+01	1.29E+00										
Euro II	0.00%	1.44E-02	1.43E+00	4.06E+01	1.43E+00										
Euro I	0.00%	1.44E-02	5.53E+00	3.26E+01	5.53E+00										
Pre-Euro	0.00%	1.44E-02	6.62E+00	4.06E+01	6.62E+00										

PLB (Diesel)

NO/NO_2 Ratio = 2.57 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [11]	PM (g/hr) [12]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	100.00%	1.00E-03	2.00E-02	1.28E+00	2.00E-02	-	1.3	6.000E-02	4.320E-02	1.680E-02	4.333E-04	2.773E-02	1.997E-02	7.765E-03	4.333E-04
Euro V	0.00%	1.00E-03	2.00E-02	3.60E+00	2.00E-02										
Euro IV	0.00%	1.00E-03	1.60E-01	3.62E+00	1.60E-01										
Euro III	0.00%	1.00E-03	1.00E-01	4.12E+00	1.00E-01										
Euro II	0.00%	1.00E-03	5.40E-01	5.53E+00	5.40E-01										
Euro I	0.00%	1.00E-03	6.30E-01	5.88E+00	6.30E-01										
Pre-Euro	0.00%	1.00E-03	1.59E+00	6.52E+00	1.59E+00										

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Calculation of Iding Emission Factor

PLB (LPG)

NO/NO_2 Ratio = 199.76 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2]	PM (g/hr) [3]	NOx (g/hr) [10]	PM (g/hr) [10]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro V	98.52%	3.90E-03	2.00E-02	1.40E+01	2.00E-02	-	1.3	2.364E-01	2.353E-01	1.178E-03	4.683E-04	3.074E-01	3.058E-01	1.531E-03	4.683E-04
Euro IV	0.71%	3.90E-03	1.60E-01	1.40E+01	1.60E-01										
Euro III	0.77%	9.20E-03	1.00E-01	3.31E+01	1.00E-01										

FBDD (Diesel)

NO/NO_2 Ratio = 2.45 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor [17]	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [15]	PM (g/hr) [16]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	100.00%	2.25E-02	1.00E-02	1.75E+00	1.00E-02	1.2	1.3	1.350E+00	9.585E-01	3.915E-01	2.600E-04	4.550E-02	3.230E-02	1.320E-02	2.600E-04
Euro V	0.00%	1.54E-01	1.00E-01	1.17E+01	1.00E-01										
Euro IV	0.00%	1.54E-01	2.00E-01	7.51E+00	2.00E-01										
Euro III	0.00%	7.37E-02	1.29E+00	4.21E+01	1.29E+00										
Euro II	0.00%	7.37E-02	1.43E+00	4.06E+01	1.43E+00										
Euro I	0.00%	7.37E-02	5.53E+00	3.26E+01	5.53E+00										
Pre-Euro	0.00%	7.37E-02	6.62E+00	4.06E+01	6.62E+00										

HGV9 (Diesel)

NO/NO_2 Ratio = 2.05 From EMFAC [1]

	Population	Idling Emission Factor				Mass Factor [17]	AC Factor [18]	Average Idling Emission Factor (g/min)							
		Cold Idling		Hot Idling				Cold Idling				Hot Idling			
	%	NOx (g/s) [2][4]	PM (g/hr) [3]	NOx (g/hr) [15]	PM (g/hr) [16]			NOx	NO	NO_2	PM [19]	NOx	NO	NO_2	PM [19]
Euro VI	99.55%	3.70E-03	1.00E-02	1.75E+00	1.00E-02	1.2	1.3	2.272E-01	1.528E-01	7.440E-02	2.705E-04	4.666E-02	3.138E-02	1.528E-02	2.705E-04
Euro V	0.45%	2.30E-02	1.00E-01	1.17E+01	1.00E-01										
Euro IV	0.00%	1.44E-02	2.00E-01	7.51E+00	2.00E-01										
Euro III	0.00%	1.44E-02	1.29E+00	4.21E+01	1.29E+00										
Euro II	0.00%	1.44E-02	1.43E+00	4.06E+01	1.43E+00										
Euro I	0.00%	1.44E-02	5.53E+00	3.26E+01	5.53E+00										
Pre-Euro	0.00%	1.44E-02	6.62E+00	4.06E+01	6.62E+00										

Remarks

[1] NO/NO2 ratio, at the respective running speed, was calculated based on emisison factors extracted from EMFAC-HK.
[2] NOx cold idling emission factors was referenced to Calculation of Start Emissions in Air Quality Impact Assessment published by EPD.
[3] Due to the lack of information, cold idling emission factor was referenced to the corresponding hot idling emission factor.
[4] For Euro groups with no emission factor provided in the reference, idling emission factor was referenced to the next Euro group with available emission factor.
[5] Reference made to Table 36 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[6] Reference made to Table 37 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[7] Reference made to Table 33 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[8] Reference made to Table 34 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[9] Due to the lack of information and similarity in taxi and PC , cold and hot idling emission factors were referenced to corresponding hot idling emission factor of PC (petrol).
[10] Due to the lack of information, hot idling emission factor was referenced to the corresponding cold idling emission factor.
[11] Reference made to Table 42 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[12] Reference made to Table 43 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[13] Reference made to Table 39 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[14] Reference made to Table 40 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[15] Reference made to Table 45 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[16] Reference made to Table 46 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association.
[17] Reference made to Table 27 of "Road Tunnels: Vehicle Emissions and Air Demand for Ventilation" published by World Road Association by assuming LGV6 and HGV7 as 15 ton, HGV8 as 23 ton, FBDD and HGV9 as 32 ton.
[18] Reference made to the approved Liantang / Heung Yuen Wai Boundary Control Point and Associated Works EIA Report.
[19] All TSP (PM) emissions were assumed for RSP and FSP as a conservative approach.
[20] The population of PC is adjusted with E-PC.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

TIH at Proposed Station near Chau Tau (FBDD Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	2.376E-01	4.277E-01	5.704E-01	8.079E-01	9.981E-01	1.331E+00	1.949E+00	2.424E+00	3.564E+00	4.658E+00	5.228E+00	6.178E+00	6.796E+00	7.129E+00	7.319E+00	7.509E+00	7.604E+00	7.604E+00
NO_2	9.710E-02	1.747E-01	2.329E-01	3.300E-01	4.076E-01	5.435E-01	7.959E-01	9.900E-01	1.456E+00	1.902E+00	2.135E+00	2.524E+00	2.776E+00	2.912E+00	2.989E+00	3.067E+00	3.106E+00	3.106E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of FBDD**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
5.704E-01	2.329E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.704E-01	2.329E-01	0.000E+00	0.000E+00
2.852E+00	1.165E+00	0.000E+00	0.000E+00
9.126E+00	3.726E+00	0.000E+00	0.000E+00
9.126E+00	3.726E+00	0.000E+00	0.000E+00
4.563E+00	1.863E+00	0.000E+00	0.000E+00
3.422E+00	1.397E+00	0.000E+00	0.000E+00
2.852E+00	1.165E+00	0.000E+00	0.000E+00
3.422E+00	1.397E+00	0.000E+00	0.000E+00
2.852E+00	1.165E+00	0.000E+00	0.000E+00
3.422E+00	1.397E+00	0.000E+00	0.000E+00
4.563E+00	1.863E+00	0.000E+00	0.000E+00
5.134E+00	2.096E+00	0.000E+00	0.000E+00
5.704E+00	2.329E+00	0.000E+00	0.000E+00
9.697E+00	3.959E+00	0.000E+00	0.000E+00
5.704E+00	2.329E+00	0.000E+00	0.000E+00
3.993E+00	1.630E+00	0.000E+00	0.000E+00
2.852E+00	1.165E+00	0.000E+00	0.000E+00
2.282E+00	9.316E-01	0.000E+00	0.000E+00
1.711E+00	6.987E-01	0.000E+00	0.000E+00

Remark:

Number of cold starts and sitting time were estimated based on planned public transport services (i.e. number of route services and operation frequencies) and existing TIHs with similar public transport services.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

TIH at Proposed Station near Chau Tau (FBDD Diesel)

Cold Idling Emission

Idling Time for Terminating Buses =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	FBDD (Diesel)									FBDD (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	6.461E-02	2.639E-02	5.200E-04	5.200E-04
0100 - 0200	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	6.461E-02	2.639E-02	5.200E-04	5.200E-04
0600 - 0700	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	3.230E-01	1.320E-01	2.600E-03	2.600E-03
0700 - 0800	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	16.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.034E+00	4.223E-01	8.320E-03	8.320E-03
0800 - 0900	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	16.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.034E+00	4.223E-01	8.320E-03	8.320E-03
0900 - 1000	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	5.169E-01	2.111E-01	4.160E-03	4.160E-03
1000 - 1100	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	3.877E-01	1.583E-01	3.120E-03	3.120E-03
1100 - 1200	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	3.230E-01	1.320E-01	2.600E-03	2.600E-03
1200 - 1300	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	3.877E-01	1.583E-01	3.120E-03	3.120E-03
1300 - 1400	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	3.230E-01	1.320E-01	2.600E-03	2.600E-03
1400 - 1500	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	3.877E-01	1.583E-01	3.120E-03	3.120E-03
1500 - 1600	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	5.169E-01	2.111E-01	4.160E-03	4.160E-03
1600 - 1700	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	5.815E-01	2.375E-01	4.680E-03	4.680E-03
1700 - 1800	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	10.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	6.461E-01	2.639E-01	5.200E-03	5.200E-03
1800 - 1900	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	17.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.098E+00	4.486E-01	8.840E-03	8.840E-03
1900 - 2000	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	10.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	6.461E-01	2.639E-01	5.200E-03	5.200E-03
2000 - 2100	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	4.523E-01	1.847E-01	3.640E-03	3.640E-03
2100 - 2200	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	3.230E-01	1.320E-01	2.600E-03	2.600E-03
2200 - 2300	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	2.584E-01	1.056E-01	2.080E-03	2.080E-03
2300 - 2400	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.938E-01	7.917E-02	1.560E-03	1.560E-03

Average Distance from Starting Place to TIH Egress =	150	m
Average Spread Distance outside TIH =	550	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within TIH (g)				Adjusted Starting Emission Outside TIH (g)				Starting Emission Rate Outside TIH (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	6.461E-02	2.639E-02	5.200E-04	5.200E-04	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.153E-01	4.708E-02	0.000E+00	0.000E+00	4.228E-01	1.726E-01	0.000E+00	0.000E+00	1.174E-04	4.795E-05	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	6.461E-02	2.639E-02	5.200E-04	5.200E-04	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.153E-01	4.708E-02	0.000E+00	0.000E+00	4.228E-01	1.726E-01	0.000E+00	0.000E+00	1.174E-04	4.795E-05	0.000E+00	0.000E+00
0600 - 0700	3.230E-01	1.320E-01	2.600E-03	2.600E-03	1.615E-01	6.598E-02	1.300E-03	1.300E-03	5.765E-01	2.354E-01	0.000E+00	0.000E+00	2.114E+00	8.631E-01	0.000E+00	0.000E+00	5.872E-04	2.398E-04	0.000E+00	0.000E+00
0700 - 0800	1.034E+00	4.223E-01	8.320E-03	8.320E-03	5.169E-01	2.111E-01	4.160E-03	4.160E-03	1.845E+00	7.533E-01	0.000E+00	0.000E+00	6.765E+00	2.762E+00	0.000E+00	0.000E+00	1.879E-03	7.672E-04	0.000E+00	0.000E+00
0800 - 0900	1.034E+00	4.223E-01	8.320E-03	8.320E-03	5.169E-01	2.111E-01	4.160E-03	4.160E-03	1.845E+00	7.533E-01	0.000E+00	0.000E+00	6.765E+00	2.762E+00	0.000E+00	0.000E+00	1.879E-03	7.672E-04	0.000E+00	0.000E+00
0900 - 1000	5.169E-01	2.111E-01	4.160E-03	4.160E-03	2.584E-01	1.056E-01	2.080E-03	2.080E-03	9.224E-01	3.766E-01	0.000E+00	0.000E+00	3.382E+00	1.381E+00	0.000E+00	0.000E+00	9.395E-04	3.836E-04	0.000E+00	0.000E+00
1000 - 1100	3.877E-01	1.583E-01	3.120E-03	3.120E-03	1.938E-01	7.917E-02	1.560E-03	1.560E-03	6.918E-01	2.825E-01	0.000E+00	0.000E+00	2.537E+00	1.036E+00	0.000E+00	0.000E+00	7.046E-04	2.877E-04	0.000E+00	0.000E+00
1100 - 1200	3.230E-01	1.320E-01	2.600E-03	2.600E-03	1.615E-01	6.598E-02	1.300E-03	1.300E-03	5.765E-01	2.354E-01	0.000E+00	0.000E+00	2.114E+00	8.631E-01	0.000E+00	0.000E+00	5.872E-04	2.398E-04	0.000E+00	0.000E+00
1200 - 1300	3.877E-01	1.583E-01	3.120E-03	3.120E-03	1.938E-01	7.917E-02	1.560E-03	1.560E-03	6.918E-01	2.825E-01	0.000E+00	0.000E+00	2.537E+00	1.036E+00	0.000E+00	0.000E+00	7.046E-04	2.877E-04	0.000E+00	0.000E+00
1300 - 1400	3.230E-01	1.320E-01	2.600E-03	2.600E-03	1.615E-01	6.598E-02	1.300E-03	1.300E-03	5.765E-01	2.354E-01	0.000E+00	0.000E+00	2.114E+00	8.631E-01	0.000E+00	0.000E+00	5.872E-04	2.398E-04	0.000E+00	0.000E+00
1400 - 1500	3.877E-01	1.583E-01	3.120E-03	3.120E-03	1.938E-01	7.917E-02	1.560E-03	1.560E-03	6.918E-01	2.825E-01	0.000E+00	0.000E+00	2.537E+00	1.036E+00	0.000E+00	0.000E+00	7.046E-04	2.877E-04	0.000E+00	0.000E+00
1500 - 1600	5.169E-01	2.111E-01	4.160E-03	4.160E-03	2.584E-01	1.056E-01	2.080E-03	2.080E-03	9.224E-01	3.766E-01	0.000E+00	0.000E+00	3.382E+00	1.381E+00	0.000E+00	0.000E+00	9.395E-04	3.836E-04	0.000E+00	0.000E+00
1600 - 1700	5.815E-01	2.375E-01	4.680E-03	4.680E-03	2.907E-01	1.188E-01	2.340E-03	2.340E-03	1.038E+00	4.237E-01	0.000E+00	0.000E+00	3.805E+00	1.554E+00	0.000E+00	0.000E+00	1.057E-03	4.316E-04	0.000E+00	0.000E+00
1700 - 1800	6.461E-01	2.639E-01	5.200E-03	5.200E-03	3.230E-01	1.320E-01	2.600E-03	2.600E-03	1.153E+00	4.708E-01	0.000E+00	0.000E+00	4.228E+00	1.726E+00	0.000E+00	0.000E+00	1.174E-03	4.795E-04	0.000E+00	0.000E+00
1800 - 1900	1.098E+00	4.486E-01	8.840E-03	8.840E-03	5.492E-01	2.243E-01	4.420E-03	4.420E-03	1.960E+00	8.004E-01	0.000E+00	0.000E+00	7.187E+00	2.935E+00	0.000E+00	0.000E+00	1.997E-03	8.152E-04	0.000E+00	0.000E+00
1900 - 2000	6.461E-01	2.639E-01	5.200E-03	5.200E-03	3.230E-01	1.320E-01	2.600E-03	2.600E-03	1.153E+00	4.708E-01	0.000E+00	0.000E+00	4.228E+00	1.726E+00	0.000E+00	0.000E+00	1.174E-03	4.795E-04	0.000E+00	0.000E+00
2000 - 2100	4.523E-01	1.847E-01	3.640E-03	3.640E-03	2.261E-01	9.237E-02	1.820E-03	1.820E-03	8.071E-01	3.296E-01	0.000E+00	0.000E+00	2.960E+00	1.208E+00	0.000E+00	0.000E+00	8.221E-04	3.357E-04	0.000E+00	0.000E+00
2100 - 2200	3.230E-01	1.320E-01	2.600E-03	2.600E-03	1.615E-01	6.598E-02	1.300E-03	1.300E-03	5.765E-01	2.354E-01	0.000E+00	0.000E+00	2.114E+00	8.631E-01	0.000E+00	0.000E+00	5.872E-04	2.398E-04	0.000E+00	0.000E+00
2200 - 2300	2.584E-01	1.056E-01	2.080E-03	2.080E-03	1.292E-01	5.278E-02	1.040E-03	1.040E-03	4.612E-01	1.883E-01	0.000E+00	0.000E+00	1.691E+00	6.905E-01	0.000E+00	0.000E+00	4.698E-04	1.918E-04	0.000E+00	0.000E+00
2300 - 2400	1.938E-01	7.917E-02	1.560E-03	1.560E-03	9.691E-02	3.959E-02	7.800E-04	7.800E-04	3.459E-01	1.412E-01	0.000E+00	0.000E+00	1.268E+00	5.179E-01	0.000E+00	0.000E+00	3.523E-04	1.439E-04	0.000E+00	0.000E+00

<u>**Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange**</u>

<u>**Year 2039**</u>

TIH at Proposed Station near Chau Tau (FBDD)

Running Emission

Average Travelling Distance within TIH =	300	m
Average Travelling Speed =	10	km/h

Hour	FBDD								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within TIH (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	1	2.970E+00	1.213E+00	3.670E-02	3.370E-02	8.910E-01	3.640E-01	1.101E-02	1.011E-02
0100 - 0200	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	1	2.970E+00	1.213E+00	3.670E-02	3.370E-02	8.910E-01	3.640E-01	1.101E-02	1.011E-02
0600 - 0700	5	2.970E+00	1.213E+00	3.670E-02	3.370E-02	4.455E+00	1.820E+00	5.505E-02	5.055E-02
0700 - 0800	16	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.426E+01	5.823E+00	1.762E-01	1.618E-01
0800 - 0900	16	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.426E+01	5.823E+00	1.762E-01	1.618E-01
0900 - 1000	8	2.970E+00	1.213E+00	3.670E-02	3.370E-02	7.128E+00	2.912E+00	8.808E-02	8.088E-02
1000 - 1100	6	2.970E+00	1.213E+00	3.670E-02	3.370E-02	5.346E+00	2.184E+00	6.606E-02	6.066E-02
1100 - 1200	5	2.970E+00	1.213E+00	3.670E-02	3.370E-02	4.455E+00	1.820E+00	5.505E-02	5.055E-02
1200 - 1300	6	2.970E+00	1.213E+00	3.670E-02	3.370E-02	5.346E+00	2.184E+00	6.606E-02	6.066E-02
1300 - 1400	5	2.970E+00	1.213E+00	3.670E-02	3.370E-02	4.455E+00	1.820E+00	5.505E-02	5.055E-02
1400 - 1500	6	2.970E+00	1.213E+00	3.670E-02	3.370E-02	5.346E+00	2.184E+00	6.606E-02	6.066E-02
1500 - 1600	8	2.970E+00	1.213E+00	3.670E-02	3.370E-02	7.128E+00	2.912E+00	8.808E-02	8.088E-02
1600 - 1700	9	2.970E+00	1.213E+00	3.670E-02	3.370E-02	8.019E+00	3.276E+00	9.909E-02	9.099E-02
1700 - 1800	10	2.970E+00	1.213E+00	3.670E-02	3.370E-02	8.910E+00	3.640E+00	1.101E-01	1.011E-01
1800 - 1900	17	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.515E+01	6.187E+00	1.872E-01	1.719E-01
1900 - 2000	10	2.970E+00	1.213E+00	3.670E-02	3.370E-02	8.910E+00	3.640E+00	1.101E-01	1.011E-01
2000 - 2100	7	2.970E+00	1.213E+00	3.670E-02	3.370E-02	6.237E+00	2.548E+00	7.707E-02	7.077E-02
2100 - 2200	5	2.970E+00	1.213E+00	3.670E-02	3.370E-02	4.455E+00	1.820E+00	5.505E-02	5.055E-02
2200 - 2300	4	2.970E+00	1.213E+00	3.670E-02	3.370E-02	3.564E+00	1.456E+00	4.404E-02	4.044E-02
2300 - 2400	3	2.970E+00	1.213E+00	3.670E-02	3.370E-02	2.673E+00	1.092E+00	3.303E-02	3.033E-02

Idling Emission

Idling Time for Non-terminating Buses =	1	min

Hour	FBDD								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

TIH at Proposed Station near Chau Tau (FBDD)

Total Hourly Emission

Hour	Emission Within TIH							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	1.071E+00	4.374E-01	1.153E-02	1.063E-02	2.975E-04	1.215E-04	3.203E-06	2.953E-06
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	1.071E+00	4.374E-01	1.153E-02	1.063E-02	2.975E-04	1.215E-04	3.203E-06	2.953E-06
0600 - 0700	5.355E+00	2.187E+00	5.765E-02	5.315E-02	1.487E-03	6.075E-04	1.601E-05	1.476E-05
0700 - 0800	1.714E+01	6.999E+00	1.845E-01	1.701E-01	4.760E-03	1.944E-03	5.124E-05	4.724E-05
0800 - 0900	1.714E+01	6.999E+00	1.845E-01	1.701E-01	4.760E-03	1.944E-03	5.124E-05	4.724E-05
0900 - 1000	8.568E+00	3.499E+00	9.224E-02	8.504E-02	2.380E-03	9.721E-04	2.562E-05	2.362E-05
1000 - 1100	6.426E+00	2.625E+00	6.918E-02	6.378E-02	1.785E-03	7.291E-04	1.922E-05	1.772E-05
1100 - 1200	5.355E+00	2.187E+00	5.765E-02	5.315E-02	1.487E-03	6.075E-04	1.601E-05	1.476E-05
1200 - 1300	6.426E+00	2.625E+00	6.918E-02	6.378E-02	1.785E-03	7.291E-04	1.922E-05	1.772E-05
1300 - 1400	5.355E+00	2.187E+00	5.765E-02	5.315E-02	1.487E-03	6.075E-04	1.601E-05	1.476E-05
1400 - 1500	6.426E+00	2.625E+00	6.918E-02	6.378E-02	1.785E-03	7.291E-04	1.922E-05	1.772E-05
1500 - 1600	8.568E+00	3.499E+00	9.224E-02	8.504E-02	2.380E-03	9.721E-04	2.562E-05	2.362E-05
1600 - 1700	9.639E+00	3.937E+00	1.038E-01	9.567E-02	2.677E-03	1.094E-03	2.882E-05	2.657E-05
1700 - 1800	1.071E+01	4.374E+00	1.153E-01	1.063E-01	2.975E-03	1.215E-03	3.203E-05	2.953E-05
1800 - 1900	1.821E+01	7.436E+00	1.960E-01	1.807E-01	5.057E-03	2.066E-03	5.445E-05	5.020E-05
1900 - 2000	1.071E+01	4.374E+00	1.153E-01	1.063E-01	2.975E-03	1.215E-03	3.203E-05	2.953E-05
2000 - 2100	7.497E+00	3.062E+00	8.071E-02	7.441E-02	2.082E-03	8.506E-04	2.242E-05	2.067E-05
2100 - 2200	5.355E+00	2.187E+00	5.765E-02	5.315E-02	1.487E-03	6.075E-04	1.601E-05	1.476E-05
2200 - 2300	4.284E+00	1.750E+00	4.612E-02	4.252E-02	1.190E-03	4.860E-04	1.281E-05	1.181E-05
2300 - 2400	3.213E+00	1.312E+00	3.459E-02	3.189E-02	8.925E-04	3.645E-04	9.608E-06	8.858E-06

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

PTI in Pang Loon Tei (FBDD_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	2.376E-01	4.277E-01	5.704E-01	8.079E-01	9.981E-01	1.331E+00	1.949E+00	2.424E+00	3.564E+00	4.658E+00	5.228E+00	6.178E+00	6.796E+00	7.129E+00	7.319E+00	7.509E+00	7.604E+00	7.604E+00
NO_2	9.710E-02	1.747E-01	2.329E-01	3.300E-01	4.076E-01	5.435E-01	7.959E-01	9.900E-01	1.456E+00	1.902E+00	2.135E+00	2.524E+00	2.776E+00	2.912E+00	2.989E+00	3.067E+00	3.106E+00	3.106E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of FBDD**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.141E+00	4.658E-01	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.993E+00	1.630E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.993E+00	1.630E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.282E+00	9.316E-01	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.711E+00	6.987E-01	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.141E+00	4.658E-01	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.711E+00	6.987E-01	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.141E+00	4.658E-01	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.141E+00	4.658E-01	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.711E+00	6.987E-01	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.282E+00	9.316E-01	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.852E+00	1.165E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.993E+00	1.630E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.282E+00	9.316E-01	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.711E+00	6.987E-01	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.141E+00	4.658E-01	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.141E+00	4.658E-01	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.704E-01	2.329E-01	0.000E+00	0.000E+00

Remark:

Number of cold starts and sitting time were estimated based on planned public transport services (i.e. number of route services and operation frequencies) and existing PTIs with similar public transport services.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

PTI in Pang Loon Tei (FBDD_Diesel)

Cold Idling Emission

Idling Time for Terminating Buses =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	FBDD (Diesel)									FBDD (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.292E-01	5.278E-02	1.040E-03	1.040E-03
0700 - 0800	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	4.523E-01	1.847E-01	3.640E-03	3.640E-03
0800 - 0900	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	4.523E-01	1.847E-01	3.640E-03	3.640E-03
0900 - 1000	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	2.584E-01	1.056E-01	2.080E-03	2.080E-03
1000 - 1100	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.938E-01	7.917E-02	1.560E-03	1.560E-03
1100 - 1200	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.292E-01	5.278E-02	1.040E-03	1.040E-03
1200 - 1300	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.938E-01	7.917E-02	1.560E-03	1.560E-03
1300 - 1400	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.292E-01	5.278E-02	1.040E-03	1.040E-03
1400 - 1500	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.292E-01	5.278E-02	1.040E-03	1.040E-03
1500 - 1600	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.938E-01	7.917E-02	1.560E-03	1.560E-03
1600 - 1700	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	2.584E-01	1.056E-01	2.080E-03	2.080E-03
1700 - 1800	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	3.230E-01	1.320E-01	2.600E-03	2.600E-03
1800 - 1900	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	4.523E-01	1.847E-01	3.640E-03	3.640E-03
1900 - 2000	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	2.584E-01	1.056E-01	2.080E-03	2.080E-03
2000 - 2100	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.938E-01	7.917E-02	1.560E-03	1.560E-03
2100 - 2200	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.292E-01	5.278E-02	1.040E-03	1.040E-03
2200 - 2300	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.292E-01	5.278E-02	1.040E-03	1.040E-03
2300 - 2400	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	6.461E-02	2.639E-02	5.200E-04	5.200E-04

Average Distance from Starting Place to PTI Egress =	125	m
Average Spread Distance outside PTI =	575	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within PTI (g)				Adjusted Starting Emission Outside PTI (g)				Starting Emission Rate Outside PTI (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.292E-01	5.278E-02	1.040E-03	1.040E-03	6.461E-02	2.639E-02	5.200E-04	5.200E-04	1.922E-01	7.847E-02	0.000E+00	0.000E+00	8.840E-01	3.609E-01	0.000E+00	0.000E+00	2.456E-04	1.003E-04	0.000E+00	0.000E+00
0700 - 0800	4.523E-01	1.847E-01	3.640E-03	3.640E-03	2.261E-01	9.237E-02	1.820E-03	1.820E-03	6.726E-01	2.746E-01	0.000E+00	0.000E+00	3.094E+00	1.263E+00	0.000E+00	0.000E+00	8.595E-04	3.509E-04	0.000E+00	0.000E+00
0800 - 0900	4.523E-01	1.847E-01	3.640E-03	3.640E-03	2.261E-01	9.237E-02	1.820E-03	1.820E-03	6.726E-01	2.746E-01	0.000E+00	0.000E+00	3.094E+00	1.263E+00	0.000E+00	0.000E+00	8.595E-04	3.509E-04	0.000E+00	0.000E+00
0900 - 1000	2.584E-01	1.056E-01	2.080E-03	2.080E-03	1.292E-01	5.278E-02	1.040E-03	1.040E-03	3.844E-01	1.569E-01	0.000E+00	0.000E+00	1.768E+00	7.219E-01	0.000E+00	0.000E+00	4.911E-04	2.005E-04	0.000E+00	0.000E+00
1000 - 1100	1.938E-01	7.917E-02	1.560E-03	1.560E-03	9.691E-02	3.959E-02	7.800E-04	7.800E-04	2.883E-01	1.177E-01	0.000E+00	0.000E+00	1.326E+00	5.414E-01	0.000E+00	0.000E+00	3.683E-04	1.504E-04	0.000E+00	0.000E+00
1100 - 1200	1.292E-01	5.278E-02	1.040E-03	1.040E-03	6.461E-02	2.639E-02	5.200E-04	5.200E-04	1.922E-01	7.847E-02	0.000E+00	0.000E+00	8.840E-01	3.609E-01	0.000E+00	0.000E+00	2.456E-04	1.003E-04	0.000E+00	0.000E+00
1200 - 1300	1.938E-01	7.917E-02	1.560E-03	1.560E-03	9.691E-02	3.959E-02	7.800E-04	7.800E-04	2.883E-01	1.177E-01	0.000E+00	0.000E+00	1.326E+00	5.414E-01	0.000E+00	0.000E+00	3.683E-04	1.504E-04	0.000E+00	0.000E+00
1300 - 1400	1.292E-01	5.278E-02	1.040E-03	1.040E-03	6.461E-02	2.639E-02	5.200E-04	5.200E-04	1.922E-01	7.847E-02	0.000E+00	0.000E+00	8.840E-01	3.609E-01	0.000E+00	0.000E+00	2.456E-04	1.003E-04	0.000E+00	0.000E+00
1400 - 1500	1.292E-01	5.278E-02	1.040E-03	1.040E-03	6.461E-02	2.639E-02	5.200E-04	5.200E-04	1.922E-01	7.847E-02	0.000E+00	0.000E+00	8.840E-01	3.609E-01	0.000E+00	0.000E+00	2.456E-04	1.003E-04	0.000E+00	0.000E+00
1500 - 1600	1.938E-01	7.917E-02	1.560E-03	1.560E-03	9.691E-02	3.959E-02	7.800E-04	7.800E-04	2.883E-01	1.177E-01	0.000E+00	0.000E+00	1.326E+00	5.414E-01	0.000E+00	0.000E+00	3.683E-04	1.504E-04	0.000E+00	0.000E+00
1600 - 1700	2.584E-01	1.056E-01	2.080E-03	2.080E-03	1.292E-01	5.278E-02	1.040E-03	1.040E-03	3.844E-01	1.569E-01	0.000E+00	0.000E+00	1.768E+00	7.219E-01	0.000E+00	0.000E+00	4.911E-04	2.005E-04	0.000E+00	0.000E+00
1700 - 1800	3.230E-01	1.320E-01	2.600E-03	2.600E-03	1.615E-01	6.598E-02	1.300E-03	1.300E-03	4.804E-01	1.962E-01	0.000E+00	0.000E+00	2.210E+00	9.024E-01	0.000E+00	0.000E+00	6.139E-04	2.507E-04	0.000E+00	0.000E+00
1800 - 1900	4.523E-01	1.847E-01	3.640E-03	3.640E-03	2.261E-01	9.237E-02	1.820E-03	1.820E-03	6.726E-01	2.746E-01	0.000E+00	0.000E+00	3.094E+00	1.263E+00	0.000E+00	0.000E+00	8.595E-04	3.509E-04	0.000E+00	0.000E+00
1900 - 2000	2.584E-01	1.056E-01	2.080E-03	2.080E-03	1.292E-01	5.278E-02	1.040E-03	1.040E-03	3.844E-01	1.569E-01	0.000E+00	0.000E+00	1.768E+00	7.219E-01	0.000E+00	0.000E+00	4.911E-04	2.005E-04	0.000E+00	0.000E+00
2000 - 2100	1.938E-01	7.917E-02	1.560E-03	1.560E-03	9.691E-02	3.959E-02	7.800E-04	7.800E-04	2.883E-01	1.177E-01	0.000E+00	0.000E+00	1.326E+00	5.414E-01	0.000E+00	0.000E+00	3.683E-04	1.504E-04	0.000E+00	0.000E+00
2100 - 2200	1.292E-01	5.278E-02	1.040E-03	1.040E-03	6.461E-02	2.639E-02	5.200E-04	5.200E-04	1.922E-01	7.847E-02	0.000E+00	0.000E+00	8.840E-01	3.609E-01	0.000E+00	0.000E+00	2.456E-04	1.003E-04	0.000E+00	0.000E+00
2200 - 2300	1.292E-01	5.278E-02	1.040E-03	1.040E-03	6.461E-02	2.639E-02	5.200E-04	5.200E-04	1.922E-01	7.847E-02	0.000E+00	0.000E+00	8.840E-01	3.609E-01	0.000E+00	0.000E+00	2.456E-04	1.003E-04	0.000E+00	0.000E+00
2300 - 2400	6.461E-02	2.639E-02	5.200E-04	5.200E-04	3.230E-02	1.320E-02	2.600E-04	2.600E-04	9.609E-02	3.923E-02	0.000E+00	0.000E+00	4.420E-01	1.805E-01	0.000E+00	0.000E+00	1.228E-04	5.013E-05	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

PTI in Pang Loon Tei (FBDD)

Running Emission

Average Travelling Distance within PTI =	300	m
Average Travelling Speed =	10	km/h

Hour	FBDD								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within PTI (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.782E+00	7.279E-01	2.202E-02	2.022E-02
0700 - 0800	7	2.970E+00	1.213E+00	3.670E-02	3.370E-02	6.237E+00	2.548E+00	7.707E-02	7.077E-02
0800 - 0900	7	2.970E+00	1.213E+00	3.670E-02	3.370E-02	6.237E+00	2.548E+00	7.707E-02	7.077E-02
0900 - 1000	4	2.970E+00	1.213E+00	3.670E-02	3.370E-02	3.564E+00	1.456E+00	4.404E-02	4.044E-02
1000 - 1100	3	2.970E+00	1.213E+00	3.670E-02	3.370E-02	2.673E+00	1.092E+00	3.303E-02	3.033E-02
1100 - 1200	2	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.782E+00	7.279E-01	2.202E-02	2.022E-02
1200 - 1300	3	2.970E+00	1.213E+00	3.670E-02	3.370E-02	2.673E+00	1.092E+00	3.303E-02	3.033E-02
1300 - 1400	2	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.782E+00	7.279E-01	2.202E-02	2.022E-02
1400 - 1500	2	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.782E+00	7.279E-01	2.202E-02	2.022E-02
1500 - 1600	3	2.970E+00	1.213E+00	3.670E-02	3.370E-02	2.673E+00	1.092E+00	3.303E-02	3.033E-02
1600 - 1700	4	2.970E+00	1.213E+00	3.670E-02	3.370E-02	3.564E+00	1.456E+00	4.404E-02	4.044E-02
1700 - 1800	5	2.970E+00	1.213E+00	3.670E-02	3.370E-02	4.455E+00	1.820E+00	5.505E-02	5.055E-02
1800 - 1900	7	2.970E+00	1.213E+00	3.670E-02	3.370E-02	6.237E+00	2.548E+00	7.707E-02	7.077E-02
1900 - 2000	4	2.970E+00	1.213E+00	3.670E-02	3.370E-02	3.564E+00	1.456E+00	4.404E-02	4.044E-02
2000 - 2100	3	2.970E+00	1.213E+00	3.670E-02	3.370E-02	2.673E+00	1.092E+00	3.303E-02	3.033E-02
2100 - 2200	2	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.782E+00	7.279E-01	2.202E-02	2.022E-02
2200 - 2300	2	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.782E+00	7.279E-01	2.202E-02	2.022E-02
2300 - 2400	1	2.970E+00	1.213E+00	3.670E-02	3.370E-02	8.910E-01	3.640E-01	1.101E-02	1.011E-02

Idling Emission

Idling Time for Non-terminating Buses =	1	min

Hour	FBDD								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

PTI in Pang Loon Tei (FBDD)

Total Hourly Emission

Hour	Emission Within PTI							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.103E+00	8.592E-01	2.306E-02	2.126E-02	5.843E-04	2.387E-04	6.406E-06	5.906E-06
0700 - 0800	7.362E+00	3.007E+00	8.071E-02	7.441E-02	2.045E-03	8.353E-04	2.242E-05	2.067E-05
0800 - 0900	7.362E+00	3.007E+00	8.071E-02	7.441E-02	2.045E-03	8.353E-04	2.242E-05	2.067E-05
0900 - 1000	4.207E+00	1.718E+00	4.612E-02	4.252E-02	1.169E-03	4.773E-04	1.281E-05	1.181E-05
1000 - 1100	3.155E+00	1.289E+00	3.459E-02	3.189E-02	8.764E-04	3.580E-04	9.608E-06	8.858E-06
1100 - 1200	2.103E+00	8.592E-01	2.306E-02	2.126E-02	5.843E-04	2.387E-04	6.406E-06	5.906E-06
1200 - 1300	3.155E+00	1.289E+00	3.459E-02	3.189E-02	8.764E-04	3.580E-04	9.608E-06	8.858E-06
1300 - 1400	2.103E+00	8.592E-01	2.306E-02	2.126E-02	5.843E-04	2.387E-04	6.406E-06	5.906E-06
1400 - 1500	2.103E+00	8.592E-01	2.306E-02	2.126E-02	5.843E-04	2.387E-04	6.406E-06	5.906E-06
1500 - 1600	3.155E+00	1.289E+00	3.459E-02	3.189E-02	8.764E-04	3.580E-04	9.608E-06	8.858E-06
1600 - 1700	4.207E+00	1.718E+00	4.612E-02	4.252E-02	1.169E-03	4.773E-04	1.281E-05	1.181E-05
1700 - 1800	5.259E+00	2.148E+00	5.765E-02	5.315E-02	1.461E-03	5.966E-04	1.601E-05	1.476E-05
1800 - 1900	7.362E+00	3.007E+00	8.071E-02	7.441E-02	2.045E-03	8.353E-04	2.242E-05	2.067E-05
1900 - 2000	4.207E+00	1.718E+00	4.612E-02	4.252E-02	1.169E-03	4.773E-04	1.281E-05	1.181E-05
2000 - 2100	3.155E+00	1.289E+00	3.459E-02	3.189E-02	8.764E-04	3.580E-04	9.608E-06	8.858E-06
2100 - 2200	2.103E+00	8.592E-01	2.306E-02	2.126E-02	5.843E-04	2.387E-04	6.406E-06	5.906E-06
2200 - 2300	2.103E+00	8.592E-01	2.306E-02	2.126E-02	5.843E-04	2.387E-04	6.406E-06	5.906E-06
2300 - 2400	1.052E+00	4.296E-01	1.153E-02	1.063E-02	2.921E-04	1.193E-04	3.203E-06	2.953E-06

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

San Tin TIH (FBDD_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	2.376E-01	4.277E-01	5.704E-01	8.079E-01	9.981E-01	1.331E+00	1.949E+00	2.424E+00	3.564E+00	4.658E+00	5.228E+00	6.178E+00	6.796E+00	7.129E+00	7.319E+00	7.509E+00	7.604E+00	7.604E+00
NO_2	9.710E-02	1.747E-01	2.329E-01	3.300E-01	4.076E-01	5.435E-01	7.959E-01	9.900E-01	1.456E+00	1.902E+00	2.135E+00	2.524E+00	2.776E+00	2.912E+00	2.989E+00	3.067E+00	3.106E+00	3.106E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of FBDD**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.704E-01	2.329E-01	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.704E-01	2.329E-01	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.704E-01	2.329E-01	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.993E+00	1.630E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.198E+01	4.891E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.255E+01	5.124E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.274E+00	2.562E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.134E+00	2.096E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.993E+00	1.630E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.563E+00	1.863E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.993E+00	1.630E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.563E+00	1.863E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.274E+00	2.562E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.845E+00	2.795E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.556E+00	3.494E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.312E+01	5.357E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.986E+00	3.261E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.134E+00	2.096E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.993E+00	1.630E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.852E+00	1.165E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.711E+00	6.987E-01	0.000E+00	0.000E+00

Remark:

Number of cold starts and sitting time were estimated based on planned public transport services (i.e. number of route services and operation frequencies) and existing TIHs with similar public transport services.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

San Tin TIH (FBDD_Diesel)

Cold Idling Emission

Idling Time for Terminating Buses =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	FBDD (Diesel)									FBDD (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	6.461E-02	2.639E-02	5.200E-04	5.200E-04
0100 - 0200	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	6.461E-02	2.639E-02	5.200E-04	5.200E-04
0200 - 0300	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	6.461E-02	2.639E-02	5.200E-04	5.200E-04
0600 - 0700	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	4.523E-01	1.847E-01	3.640E-03	3.640E-03
0700 - 0800	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	21.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.357E+00	5.542E-01	1.092E-02	1.092E-02
0800 - 0900	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	22.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.421E+00	5.806E-01	1.144E-02	1.144E-02
0900 - 1000	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	11.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	7.107E-01	2.903E-01	5.720E-03	5.720E-03
1000 - 1100	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	5.815E-01	2.375E-01	4.680E-03	4.680E-03
1100 - 1200	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	4.523E-01	1.847E-01	3.640E-03	3.640E-03
1200 - 1300	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	5.169E-01	2.111E-01	4.160E-03	4.160E-03
1300 - 1400	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	4.523E-01	1.847E-01	3.640E-03	3.640E-03
1400 - 1500	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	5.169E-01	2.111E-01	4.160E-03	4.160E-03
1500 - 1600	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	11.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	7.107E-01	2.903E-01	5.720E-03	5.720E-03
1600 - 1700	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	12.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	7.753E-01	3.167E-01	6.240E-03	6.240E-03
1700 - 1800	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	15.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	9.691E-01	3.959E-01	7.800E-03	7.800E-03
1800 - 1900	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	23.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.486E+00	6.070E-01	1.196E-02	1.196E-02
1900 - 2000	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	14.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	9.045E-01	3.695E-01	7.280E-03	7.280E-03
2000 - 2100	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	5.815E-01	2.375E-01	4.680E-03	4.680E-03
2100 - 2200	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	4.523E-01	1.847E-01	3.640E-03	3.640E-03
2200 - 2300	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	3.230E-01	1.320E-01	2.600E-03	2.600E-03
2300 - 2400	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.938E-01	7.917E-02	1.560E-03	1.560E-03

Average Distance from Starting Place to TIH Egress =	250	m
Average Spread Distance outside TIH =	450	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within TIH (g)				Adjusted Starting Emission Outside TIH (g)				Starting Emission Rate Outside TIH (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	6.461E-02	2.639E-02	5.200E-04	5.200E-04	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.922E-01	7.847E-02	0.000E+00	0.000E+00	3.459E-01	1.412E-01	0.000E+00	0.000E+00	9.609E-05	3.923E-05	0.000E+00	0.000E+00
0100 - 0200	6.461E-02	2.639E-02	5.200E-04	5.200E-04	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.922E-01	7.847E-02	0.000E+00	0.000E+00	3.459E-01	1.412E-01	0.000E+00	0.000E+00	9.609E-05	3.923E-05	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	6.461E-02	2.639E-02	5.200E-04	5.200E-04	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.922E-01	7.847E-02	0.000E+00	0.000E+00	3.459E-01	1.412E-01	0.000E+00	0.000E+00	9.609E-05	3.923E-05	0.000E+00	0.000E+00
0600 - 0700	4.523E-01	1.847E-01	3.640E-03	3.640E-03	2.261E-01	9.237E-02	1.820E-03	1.820E-03	1.345E+00	5.493E-01	0.000E+00	0.000E+00	2.421E+00	9.887E-01	0.000E+00	0.000E+00	6.726E-04	2.746E-04	0.000E+00	0.000E+00
0700 - 0800	1.357E+00	5.542E-01	1.092E-02	1.092E-02	6.784E-01	2.771E-01	5.460E-03	5.460E-03	4.036E+00	1.648E+00	0.000E+00	0.000E+00	7.264E+00	2.966E+00	0.000E+00	0.000E+00	2.018E-03	8.239E-04	0.000E+00	0.000E+00
0800 - 0900	1.421E+00	5.806E-01	1.144E-02	1.144E-02	7.107E-01	2.903E-01	5.720E-03	5.720E-03	4.228E+00	1.726E+00	0.000E+00	0.000E+00	7.610E+00	3.107E+00	0.000E+00	0.000E+00	2.114E-03	8.631E-04	0.000E+00	0.000E+00
0900 - 1000	7.107E-01	2.903E-01	5.720E-03	5.720E-03	3.553E-01	1.452E-01	2.860E-03	2.860E-03	2.114E+00	8.631E-01	0.000E+00	0.000E+00	3.805E+00	1.554E+00	0.000E+00	0.000E+00	1.057E-03	4.316E-04	0.000E+00	0.000E+00
1000 - 1100	5.815E-01	2.375E-01	4.680E-03	4.680E-03	2.907E-01	1.188E-01	2.340E-03	2.340E-03	1.730E+00	7.062E-01	0.000E+00	0.000E+00	3.113E+00	1.271E+00	0.000E+00	0.000E+00	8.648E-04	3.531E-04	0.000E+00	0.000E+00
1100 - 1200	4.523E-01	1.847E-01	3.640E-03	3.640E-03	2.261E-01	9.237E-02	1.820E-03	1.820E-03	1.345E+00	5.493E-01	0.000E+00	0.000E+00	2.421E+00	9.887E-01	0.000E+00	0.000E+00	6.726E-04	2.746E-04	0.000E+00	0.000E+00
1200 - 1300	5.169E-01	2.111E-01	4.160E-03	4.160E-03	2.584E-01	1.056E-01	2.080E-03	2.080E-03	1.537E+00	6.277E-01	0.000E+00	0.000E+00	2.767E+00	1.130E+00	0.000E+00	0.000E+00	7.687E-04	3.139E-04	0.000E+00	0.000E+00
1300 - 1400	4.523E-01	1.847E-01	3.640E-03	3.640E-03	2.261E-01	9.237E-02	1.820E-03	1.820E-03	1.345E+00	5.493E-01	0.000E+00	0.000E+00	2.421E+00	9.887E-01	0.000E+00	0.000E+00	6.726E-04	2.746E-04	0.000E+00	0.000E+00
1400 - 1500	5.169E-01	2.111E-01	4.160E-03	4.160E-03	2.584E-01	1.056E-01	2.080E-03	2.080E-03	1.537E+00	6.277E-01	0.000E+00	0.000E+00	2.767E+00	1.130E+00	0.000E+00	0.000E+00	7.687E-04	3.139E-04	0.000E+00	0.000E+00
1500 - 1600	7.107E-01	2.903E-01	5.720E-03	5.720E-03	3.553E-01	1.452E-01	2.860E-03	2.860E-03	2.114E+00	8.631E-01	0.000E+00	0.000E+00	3.805E+00	1.554E+00	0.000E+00	0.000E+00	1.057E-03	4.316E-04	0.000E+00	0.000E+00
1600 - 1700	7.753E-01	3.167E-01	6.240E-03	6.240E-03	3.877E-01	1.583E-01	3.120E-03	3.120E-03	2.306E+00	9.416E-01	0.000E+00	0.000E+00	4.151E+00	1.695E+00	0.000E+00	0.000E+00	1.153E-03	4.708E-04	0.000E+00	0.000E+00
1700 - 1800	9.691E-01	3.959E-01	7.800E-03	7.800E-03	4.846E-01	1.979E-01	3.900E-03	3.900E-03	2.883E+00	1.177E+00	0.000E+00	0.000E+00	5.189E+00	2.119E+00	0.000E+00	0.000E+00	1.441E-03	5.885E-04	0.000E+00	0.000E+00
1800 - 1900	1.486E+00	6.070E-01	1.196E-02	1.196E-02	7.430E-01	3.035E-01	5.980E-03	5.980E-03	4.420E+00	1.805E+00	0.000E+00	0.000E+00	7.956E+00	3.248E+00	0.000E+00	0.000E+00	2.210E-03	9.024E-04	0.000E+00	0.000E+00
1900 - 2000	9.045E-01	3.695E-01	7.280E-03	7.280E-03	4.523E-01	1.847E-01	3.640E-03	3.640E-03	2.690E+00	1.099E+00	0.000E+00	0.000E+00	4.843E+00	1.977E+00	0.000E+00	0.000E+00	1.345E-03	5.493E-04	0.000E+00	0.000E+00
2000 - 2100	5.815E-01	2.375E-01	4.680E-03	4.680E-03	2.907E-01	1.188E-01	2.340E-03	2.340E-03	1.730E+00	7.062E-01	0.000E+00	0.000E+00	3.113E+00	1.271E+00	0.000E+00	0.000E+00	8.648E-04	3.531E-04	0.000E+00	0.000E+00
2100 - 2200	4.523E-01	1.847E-01	3.640E-03	3.640E-03	2.261E-01	9.237E-02	1.820E-03	1.820E-03	1.345E+00	5.493E-01	0.000E+00	0.000E+00	2.421E+00	9.887E-01	0.000E+00	0.000E+00	6.726E-04	2.746E-04	0.000E+00	0.000E+00
2200 - 2300	3.230E-01	1.320E-01	2.600E-03	2.600E-03	1.615E-01	6.598E-02	1.300E-03	1.300E-03	9.609E-01	3.923E-01	0.000E+00	0.000E+00	1.730E+00	7.062E-01	0.000E+00	0.000E+00	4.804E-04	1.962E-04	0.000E+00	0.000E+00
2300 - 2400	1.938E-01	7.917E-02	1.560E-03	1.560E-03	9.691E-02	3.959E-02	7.800E-04	7.800E-04	5.765E-01	2.354E-01	0.000E+00	0.000E+00	1.038E+00	4.237E-01	0.000E+00	0.000E+00	2.883E-04	1.177E-04	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

San Tin TIH (FBDD)

Running Emission

Average Travelling Distance within TIH =	450	m
Average Travelling Speed =	10	km/h

Hour	Frequency	FBDD							
		Running Emission Factor (g/km·vehicle)				Running Emission Within TIH (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	1	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.337E+00	5.459E-01	1.651E-02	1.516E-02
0100 - 0200	1	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.337E+00	5.459E-01	1.651E-02	1.516E-02
0200 - 0300	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	1	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.337E+00	5.459E-01	1.651E-02	1.516E-02
0600 - 0700	7	2.970E+00	1.213E+00	3.670E-02	3.370E-02	9.356E+00	3.822E+00	1.156E-01	1.062E-01
0700 - 0800	21	2.970E+00	1.213E+00	3.670E-02	3.370E-02	2.807E+01	1.146E+01	3.468E-01	3.185E-01
0800 - 0900	22	2.970E+00	1.213E+00	3.670E-02	3.370E-02	2.940E+01	1.201E+01	3.633E-01	3.336E-01
0900 - 1000	11	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.470E+01	6.005E+00	1.817E-01	1.668E-01
1000 - 1100	9	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.203E+01	4.913E+00	1.486E-01	1.365E-01
1100 - 1200	7	2.970E+00	1.213E+00	3.670E-02	3.370E-02	9.356E+00	3.822E+00	1.156E-01	1.062E-01
1200 - 1300	8	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.069E+01	4.368E+00	1.321E-01	1.213E-01
1300 - 1400	7	2.970E+00	1.213E+00	3.670E-02	3.370E-02	9.356E+00	3.822E+00	1.156E-01	1.062E-01
1400 - 1500	8	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.069E+01	4.368E+00	1.321E-01	1.213E-01
1500 - 1600	11	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.470E+01	6.005E+00	1.817E-01	1.668E-01
1600 - 1700	12	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.604E+01	6.551E+00	1.982E-01	1.820E-01
1700 - 1800	15	2.970E+00	1.213E+00	3.670E-02	3.370E-02	2.005E+01	8.189E+00	2.477E-01	2.275E-01
1800 - 1900	23	2.970E+00	1.213E+00	3.670E-02	3.370E-02	3.074E+01	1.256E+01	3.798E-01	3.488E-01
1900 - 2000	14	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.871E+01	7.643E+00	2.312E-01	2.123E-01
2000 - 2100	9	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.203E+01	4.913E+00	1.486E-01	1.365E-01
2100 - 2200	7	2.970E+00	1.213E+00	3.670E-02	3.370E-02	9.356E+00	3.822E+00	1.156E-01	1.062E-01
2200 - 2300	5	2.970E+00	1.213E+00	3.670E-02	3.370E-02	6.683E+00	2.730E+00	8.257E-02	7.582E-02
2300 - 2400	3	2.970E+00	1.213E+00	3.670E-02	3.370E-02	4.010E+00	1.638E+00	4.954E-02	4.549E-02

Idling Emission

Idling Time for Non-terminating Buses =	1	min

Hour	Frequency	FBDD							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

San Tin TIH (FBDD)

Total Hourly Emission

Hour	Emission Within TIH							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	1.593E+00	6.508E-01	1.703E-02	1.568E-02	4.426E-04	1.808E-04	4.732E-06	4.357E-06
0100 - 0200	1.593E+00	6.508E-01	1.703E-02	1.568E-02	4.426E-04	1.808E-04	4.732E-06	4.357E-06
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	1.593E+00	6.508E-01	1.703E-02	1.568E-02	4.426E-04	1.808E-04	4.732E-06	4.357E-06
0600 - 0700	1.115E+01	4.556E+00	1.192E-01	1.098E-01	3.098E-03	1.265E-03	3.312E-05	3.050E-05
0700 - 0800	3.346E+01	1.367E+01	3.577E-01	3.294E-01	9.294E-03	3.796E-03	9.937E-05	9.150E-05
0800 - 0900	3.505E+01	1.432E+01	3.748E-01	3.451E-01	9.737E-03	3.977E-03	1.041E-04	9.585E-05
0900 - 1000	1.753E+01	7.159E+00	1.874E-01	1.725E-01	4.869E-03	1.989E-03	5.205E-05	4.793E-05
1000 - 1100	1.434E+01	5.857E+00	1.533E-01	1.412E-01	3.983E-03	1.627E-03	4.259E-05	3.921E-05
1100 - 1200	1.115E+01	4.556E+00	1.192E-01	1.098E-01	3.098E-03	1.265E-03	3.312E-05	3.050E-05
1200 - 1300	1.275E+01	5.206E+00	1.363E-01	1.255E-01	3.541E-03	1.446E-03	3.786E-05	3.486E-05
1300 - 1400	1.115E+01	4.556E+00	1.192E-01	1.098E-01	3.098E-03	1.265E-03	3.312E-05	3.050E-05
1400 - 1500	1.275E+01	5.206E+00	1.363E-01	1.255E-01	3.541E-03	1.446E-03	3.786E-05	3.486E-05
1500 - 1600	1.753E+01	7.159E+00	1.874E-01	1.725E-01	4.869E-03	1.989E-03	5.205E-05	4.793E-05
1600 - 1700	1.912E+01	7.810E+00	2.044E-01	1.882E-01	5.311E-03	2.169E-03	5.678E-05	5.228E-05
1700 - 1800	2.390E+01	9.762E+00	2.555E-01	2.353E-01	6.639E-03	2.712E-03	7.098E-05	6.535E-05
1800 - 1900	3.665E+01	1.497E+01	3.918E-01	3.608E-01	1.018E-02	4.158E-03	1.088E-04	1.002E-04
1900 - 2000	2.231E+01	9.111E+00	2.385E-01	2.196E-01	6.196E-03	2.531E-03	6.625E-05	6.100E-05
2000 - 2100	1.434E+01	5.857E+00	1.533E-01	1.412E-01	3.983E-03	1.627E-03	4.259E-05	3.921E-05
2100 - 2200	1.115E+01	4.556E+00	1.192E-01	1.098E-01	3.098E-03	1.265E-03	3.312E-05	3.050E-05
2200 - 2300	7.967E+00	3.254E+00	8.517E-02	7.842E-02	2.213E-03	9.039E-04	2.366E-05	2.178E-05
2300 - 2400	4.780E+00	1.952E+00	5.110E-02	4.705E-02	1.328E-03	5.423E-04	1.420E-05	1.307E-05

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Lok Ma Chau Station PTI (FBDD_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	2.376E-01	4.277E-01	5.704E-01	8.079E-01	9.981E-01	1.331E+00	1.949E+00	2.424E+00	3.564E+00	4.658E+00	5.228E+00	6.178E+00	6.796E+00	7.129E+00	7.319E+00	7.509E+00	7.604E+00	7.604E+00
NO_2	9.710E-02	1.747E-01	2.329E-01	3.300E-01	4.076E-01	5.435E-01	7.959E-01	9.900E-01	1.456E+00	1.902E+00	2.135E+00	2.524E+00	2.776E+00	2.912E+00	2.989E+00	3.067E+00	3.106E+00	3.106E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of FBDD**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	**Total Starting Emission (g)**			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.141E+00	4.658E-01	0.000E+00	0.000E+00
0700 - 0800	3.422E+00	1.397E+00	0.000E+00	0.000E+00
0800 - 0900	3.422E+00	1.397E+00	0.000E+00	0.000E+00
0900 - 1000	1.711E+00	6.987E-01	0.000E+00	0.000E+00
1000 - 1100	1.141E+00	4.658E-01	0.000E+00	0.000E+00
1100 - 1200	1.141E+00	4.658E-01	0.000E+00	0.000E+00
1200 - 1300	1.141E+00	4.658E-01	0.000E+00	0.000E+00
1300 - 1400	1.141E+00	4.658E-01	0.000E+00	0.000E+00
1400 - 1500	1.141E+00	4.658E-01	0.000E+00	0.000E+00
1500 - 1600	1.711E+00	6.987E-01	0.000E+00	0.000E+00
1600 - 1700	1.711E+00	6.987E-01	0.000E+00	0.000E+00
1700 - 1800	2.282E+00	9.316E-01	0.000E+00	0.000E+00
1800 - 1900	3.422E+00	1.397E+00	0.000E+00	0.000E+00
1900 - 2000	2.282E+00	9.316E-01	0.000E+00	0.000E+00
2000 - 2100	1.141E+00	4.658E-01	0.000E+00	0.000E+00
2100 - 2200	1.141E+00	4.658E-01	0.000E+00	0.000E+00
2200 - 2300	5.704E-01	2.329E-01	0.000E+00	0.000E+00
2300 - 2400	5.704E-01	2.329E-01	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the PTI and operators' published schedules, while sitting time were obtained based on on-site observations at PTI.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Lok Ma Chau Station PTI (FBDD_Diesel)

Cold Idling Emission

Idling Time for Terminating Buses =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	FBDD (Diesel)									FBDD (Diesel)									
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	
0000 - 0100	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0100 - 0200	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0200 - 0300	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0300 - 0400	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0400 - 0500	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0500 - 0600	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0600 - 0700	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.292E-01	5.278E-02	1.040E-03	1.040E-03	
0700 - 0800	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	3.877E-01	1.583E-01	3.120E-03	3.120E-03	
0800 - 0900	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	3.877E-01	1.583E-01	3.120E-03	3.120E-03	
0900 - 1000	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.938E-01	7.917E-02	1.560E-03	1.560E-03	
1000 - 1100	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.292E-01	5.278E-02	1.040E-03	1.040E-03	
1100 - 1200	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.292E-01	5.278E-02	1.040E-03	1.040E-03	
1200 - 1300	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.292E-01	5.278E-02	1.040E-03	1.040E-03	
1300 - 1400	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.292E-01	5.278E-02	1.040E-03	1.040E-03	
1400 - 1500	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.292E-01	5.278E-02	1.040E-03	1.040E-03	
1500 - 1600	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.938E-01	7.917E-02	1.560E-03	1.560E-03	
1600 - 1700	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.938E-01	7.917E-02	1.560E-03	1.560E-03	
1700 - 1800	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	2.584E-01	1.056E-01	2.080E-03	2.080E-03	
1800 - 1900	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	3.877E-01	1.583E-01	3.120E-03	3.120E-03	
1900 - 2000	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	2.584E-01	1.056E-01	2.080E-03	2.080E-03	
2000 - 2100	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.292E-01	5.278E-02	1.040E-03	1.040E-03	
2100 - 2200	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.292E-01	5.278E-02	1.040E-03	1.040E-03	
2200 - 2300	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	6.461E-02	2.639E-02	5.200E-04	5.200E-04	
2300 - 2400	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	6.461E-02	2.639E-02	5.200E-04	5.200E-04	

Average Distance from Starting Place to PTI Egress =	50	m
Average Spread Distance outside PTI =	650	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within PTI (g)				Adjusted Starting Emission Outside PTI (g)				Starting Emission Rate Outside PTI (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.292E-01	5.278E-02	1.040E-03	1.040E-03	6.461E-02	2.639E-02	5.200E-04	5.200E-04	7.687E-02	3.139E-02	0.000E+00	0.000E+00	9.993E-01	4.080E-01	0.000E+00	0.000E+00	2.776E-04	1.133E-04	0.000E+00	0.000E+00
0700 - 0800	3.877E-01	1.583E-01	3.120E-03	3.120E-03	1.938E-01	7.917E-02	1.560E-03	1.560E-03	2.306E-01	9.416E-02	0.000E+00	0.000E+00	2.998E+00	1.224E+00	0.000E+00	0.000E+00	8.328E-04	3.400E-04	0.000E+00	0.000E+00
0800 - 0900	3.877E-01	1.583E-01	3.120E-03	3.120E-03	1.938E-01	7.917E-02	1.560E-03	1.560E-03	2.306E-01	9.416E-02	0.000E+00	0.000E+00	2.998E+00	1.224E+00	0.000E+00	0.000E+00	8.328E-04	3.400E-04	0.000E+00	0.000E+00
0900 - 1000	1.938E-01	7.917E-02	1.560E-03	1.560E-03	9.691E-02	3.959E-02	7.800E-04	7.800E-04	1.153E-01	4.708E-02	0.000E+00	0.000E+00	1.499E+00	6.120E-01	0.000E+00	0.000E+00	4.164E-04	1.700E-04	0.000E+00	0.000E+00
1000 - 1100	1.292E-01	5.278E-02	1.040E-03	1.040E-03	6.461E-02	2.639E-02	5.200E-04	5.200E-04	7.687E-02	3.139E-02	0.000E+00	0.000E+00	9.993E-01	4.080E-01	0.000E+00	0.000E+00	2.776E-04	1.133E-04	0.000E+00	0.000E+00
1100 - 1200	1.292E-01	5.278E-02	1.040E-03	1.040E-03	6.461E-02	2.639E-02	5.200E-04	5.200E-04	7.687E-02	3.139E-02	0.000E+00	0.000E+00	9.993E-01	4.080E-01	0.000E+00	0.000E+00	2.776E-04	1.133E-04	0.000E+00	0.000E+00
1200 - 1300	1.292E-01	5.278E-02	1.040E-03	1.040E-03	6.461E-02	2.639E-02	5.200E-04	5.200E-04	7.687E-02	3.139E-02	0.000E+00	0.000E+00	9.993E-01	4.080E-01	0.000E+00	0.000E+00	2.776E-04	1.133E-04	0.000E+00	0.000E+00
1300 - 1400	1.292E-01	5.278E-02	1.040E-03	1.040E-03	6.461E-02	2.639E-02	5.200E-04	5.200E-04	7.687E-02	3.139E-02	0.000E+00	0.000E+00	9.993E-01	4.080E-01	0.000E+00	0.000E+00	2.776E-04	1.133E-04	0.000E+00	0.000E+00
1400 - 1500	1.292E-01	5.278E-02	1.040E-03	1.040E-03	6.461E-02	2.639E-02	5.200E-04	5.200E-04	7.687E-02	3.139E-02	0.000E+00	0.000E+00	9.993E-01	4.080E-01	0.000E+00	0.000E+00	2.776E-04	1.133E-04	0.000E+00	0.000E+00
1500 - 1600	1.938E-01	7.917E-02	1.560E-03	1.560E-03	9.691E-02	3.959E-02	7.800E-04	7.800E-04	1.153E-01	4.708E-02	0.000E+00	0.000E+00	1.499E+00	6.120E-01	0.000E+00	0.000E+00	4.164E-04	1.700E-04	0.000E+00	0.000E+00
1600 - 1700	1.938E-01	7.917E-02	1.560E-03	1.560E-03	9.691E-02	3.959E-02	7.800E-04	7.800E-04	1.153E-01	4.708E-02	0.000E+00	0.000E+00	1.499E+00	6.120E-01	0.000E+00	0.000E+00	4.164E-04	1.700E-04	0.000E+00	0.000E+00
1700 - 1800	2.584E-01	1.056E-01	2.080E-03	2.080E-03	1.292E-01	5.278E-02	1.040E-03	1.040E-03	1.537E-01	6.277E-02	0.000E+00	0.000E+00	1.999E+00	8.160E-01	0.000E+00	0.000E+00	5.552E-04	2.267E-04	0.000E+00	0.000E+00
1800 - 1900	3.877E-01	1.583E-01	3.120E-03	3.120E-03	1.938E-01	7.917E-02	1.560E-03	1.560E-03	2.306E-01	9.416E-02	0.000E+00	0.000E+00	2.998E+00	1.224E+00	0.000E+00	0.000E+00	8.328E-04	3.400E-04	0.000E+00	0.000E+00
1900 - 2000	2.584E-01	1.056E-01	2.080E-03	2.080E-03	1.292E-01	5.278E-02	1.040E-03	1.040E-03	1.537E-01	6.277E-02	0.000E+00	0.000E+00	1.999E+00	8.160E-01	0.000E+00	0.000E+00	5.552E-04	2.267E-04	0.000E+00	0.000E+00
2000 - 2100	1.292E-01	5.278E-02	1.040E-03	1.040E-03	6.461E-02	2.639E-02	5.200E-04	5.200E-04	7.687E-02	3.139E-02	0.000E+00	0.000E+00	9.993E-01	4.080E-01	0.000E+00	0.000E+00	2.776E-04	1.133E-04	0.000E+00	0.000E+00
2100 - 2200	1.292E-01	5.278E-02	1.040E-03	1.040E-03	6.461E-02	2.639E-02	5.200E-04	5.200E-04	7.687E-02	3.139E-02	0.000E+00	0.000E+00	9.993E-01	4.080E-01	0.000E+00	0.000E+00	2.776E-04	1.133E-04	0.000E+00	0.000E+00
2200 - 2300	6.461E-02	2.639E-02	5.200E-04	5.200E-04	3.230E-02	1.320E-02	2.600E-04	2.600E-04	3.844E-02	1.569E-02	0.000E+00	0.000E+00	4.997E-01	2.040E-01	0.000E+00	0.000E+00	1.388E-04	5.667E-05	0.000E+00	0.000E+00
2300 - 2400	6.461E-02	2.639E-02	5.200E-04	5.200E-04	3.230E-02	1.320E-02	2.600E-04	2.600E-04	3.844E-02	1.569E-02	0.000E+00	0.000E+00	4.997E-01	2.040E-01	0.000E+00	0.000E+00	1.388E-04	5.667E-05	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Lok Ma Chau Station PTI (FBDD)

Running Emission

Average Travelling Distance within PTI =	100	m
Average Travelling Speed =	10	km/h

Hour	Frequency	FBDD							
		Running Emission Factor (g/km·vehicle)				Running Emission Within PTI (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2	2.970E+00	1.213E+00	3.670E-02	3.370E-02	5.940E-01	2.426E-01	7.340E-03	6.740E-03
0700 - 0800	6	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.782E+00	7.279E-01	2.202E-02	2.022E-02
0800 - 0900	6	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.782E+00	7.279E-01	2.202E-02	2.022E-02
0900 - 1000	3	2.970E+00	1.213E+00	3.670E-02	3.370E-02	8.910E-01	3.640E-01	1.101E-02	1.011E-02
1000 - 1100	2	2.970E+00	1.213E+00	3.670E-02	3.370E-02	5.940E-01	2.426E-01	7.340E-03	6.740E-03
1100 - 1200	2	2.970E+00	1.213E+00	3.670E-02	3.370E-02	5.940E-01	2.426E-01	7.340E-03	6.740E-03
1200 - 1300	2	2.970E+00	1.213E+00	3.670E-02	3.370E-02	5.940E-01	2.426E-01	7.340E-03	6.740E-03
1300 - 1400	2	2.970E+00	1.213E+00	3.670E-02	3.370E-02	5.940E-01	2.426E-01	7.340E-03	6.740E-03
1400 - 1500	2	2.970E+00	1.213E+00	3.670E-02	3.370E-02	5.940E-01	2.426E-01	7.340E-03	6.740E-03
1500 - 1600	3	2.970E+00	1.213E+00	3.670E-02	3.370E-02	8.910E-01	3.640E-01	1.101E-02	1.011E-02
1600 - 1700	3	2.970E+00	1.213E+00	3.670E-02	3.370E-02	8.910E-01	3.640E-01	1.101E-02	1.011E-02
1700 - 1800	4	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.188E+00	4.853E-01	1.468E-02	1.348E-02
1800 - 1900	6	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.782E+00	7.279E-01	2.202E-02	2.022E-02
1900 - 2000	4	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.188E+00	4.853E-01	1.468E-02	1.348E-02
2000 - 2100	2	2.970E+00	1.213E+00	3.670E-02	3.370E-02	5.940E-01	2.426E-01	7.340E-03	6.740E-03
2100 - 2200	2	2.970E+00	1.213E+00	3.670E-02	3.370E-02	5.940E-01	2.426E-01	7.340E-03	6.740E-03
2200 - 2300	1	2.970E+00	1.213E+00	3.670E-02	3.370E-02	2.970E-01	1.213E-01	3.670E-03	3.370E-03
2300 - 2400	1	2.970E+00	1.213E+00	3.670E-02	3.370E-02	2.970E-01	1.213E-01	3.670E-03	3.370E-03

Idling Emission

Idling Time for Non-terminating Buses =	1	min

Hour	Frequency	FBDD							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Lok Ma Chau Station PTI (FBDD)

Total Hourly Emission

Hour	Emission Within PTI							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	8.001E-01	3.268E-01	8.380E-03	7.780E-03	2.223E-04	9.078E-05	2.328E-06	2.161E-06
0700 - 0800	2.400E+00	9.804E-01	2.514E-02	2.334E-02	6.668E-04	2.723E-04	6.983E-06	6.483E-06
0800 - 0900	2.400E+00	9.804E-01	2.514E-02	2.334E-02	6.668E-04	2.723E-04	6.983E-06	6.483E-06
0900 - 1000	1.200E+00	4.902E-01	1.257E-02	1.167E-02	3.334E-04	1.362E-04	3.492E-06	3.242E-06
1000 - 1100	8.001E-01	3.268E-01	8.380E-03	7.780E-03	2.223E-04	9.078E-05	2.328E-06	2.161E-06
1100 - 1200	8.001E-01	3.268E-01	8.380E-03	7.780E-03	2.223E-04	9.078E-05	2.328E-06	2.161E-06
1200 - 1300	8.001E-01	3.268E-01	8.380E-03	7.780E-03	2.223E-04	9.078E-05	2.328E-06	2.161E-06
1300 - 1400	8.001E-01	3.268E-01	8.380E-03	7.780E-03	2.223E-04	9.078E-05	2.328E-06	2.161E-06
1400 - 1500	8.001E-01	3.268E-01	8.380E-03	7.780E-03	2.223E-04	9.078E-05	2.328E-06	2.161E-06
1500 - 1600	1.200E+00	4.902E-01	1.257E-02	1.167E-02	3.334E-04	1.362E-04	3.492E-06	3.242E-06
1600 - 1700	1.200E+00	4.902E-01	1.257E-02	1.167E-02	3.334E-04	1.362E-04	3.492E-06	3.242E-06
1700 - 1800	1.600E+00	6.536E-01	1.676E-02	1.556E-02	4.445E-04	1.816E-04	4.656E-06	4.322E-06
1800 - 1900	2.400E+00	9.804E-01	2.514E-02	2.334E-02	6.668E-04	2.723E-04	6.983E-06	6.483E-06
1900 - 2000	1.600E+00	6.536E-01	1.676E-02	1.556E-02	4.445E-04	1.816E-04	4.656E-06	4.322E-06
2000 - 2100	8.001E-01	3.268E-01	8.380E-03	7.780E-03	2.223E-04	9.078E-05	2.328E-06	2.161E-06
2100 - 2200	8.001E-01	3.268E-01	8.380E-03	7.780E-03	2.223E-04	9.078E-05	2.328E-06	2.161E-06
2200 - 2300	4.001E-01	1.634E-01	4.190E-03	3.890E-03	1.111E-04	4.539E-05	1.164E-06	1.081E-06
2300 - 2400	4.001E-01	1.634E-01	4.190E-03	3.890E-03	1.111E-04	4.539E-05	1.164E-06	1.081E-06

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Lok Ma Chau Station PTI (PLB_Diesel)

Starting Emission

No. of PLB(Diesel) to No. of PLB (LPG) Ratio =		63.17

	Starting Emission Factor (g/trip)																	
NO	4.930E-02	8.880E-02	1.184E-01	1.677E-01	2.071E-01	2.762E-01	4.044E-01	5.031E-01	7.398E-01	9.667E-01	1.085E+00	1.282E+00	1.411E+00	1.480E+00	1.519E+00	1.559E+00	1.578E+00	1.578E+00
NO_2	1.920E-02	3.450E-02	4.600E-02	6.520E-02	8.060E-02	1.074E-01	1.573E-01	1.956E-01	2.877E-01	3.759E-01	4.220E-01	4.987E-01	5.486E-01	5.754E-01	5.907E-01	6.061E-01	6.138E-01	6.138E-01
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of PLB_Diesel**																			Total Starting Emission (g)			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**		**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		3.497E-01	1.358E-01	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	6.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		8.159E-01	3.170E-01	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	7.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		9.324E-01	3.623E-01	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	3.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		4.662E-01	1.811E-01	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		3.497E-01	1.358E-01	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		3.497E-01	1.358E-01	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		3.497E-01	1.358E-01	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		3.497E-01	1.358E-01	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		3.497E-01	1.358E-01	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	3.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		4.662E-01	1.811E-01	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	3.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		4.662E-01	1.811E-01	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	4.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		5.828E-01	2.264E-01	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	7.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		9.324E-01	3.623E-01	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	4.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		5.828E-01	2.264E-01	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		3.497E-01	1.358E-01	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		3.497E-01	1.358E-01	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		2.331E-01	9.057E-02	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		1.166E-01	4.528E-02	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the PTI and operators' published schedules, while sitting time were obtained based on on-site observations at PTI.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Lok Ma Chau Station PTI (PLB_Diesel)

Cold Idling Emission

Idling Time for Terminating PLB =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	PLB (Diesel)									PLB (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.95	1.997E-02	7.765E-03	4.333E-04	4.333E-04	1.179E-01	4.586E-02	2.559E-03	2.559E-03
0700 - 0800	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.89	1.997E-02	7.765E-03	4.333E-04	4.333E-04	2.752E-01	1.070E-01	5.972E-03	5.972E-03
0800 - 0900	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.88	1.997E-02	7.765E-03	4.333E-04	4.333E-04	3.145E-01	1.223E-01	6.825E-03	6.825E-03
0900 - 1000	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.94	1.997E-02	7.765E-03	4.333E-04	4.333E-04	1.573E-01	6.115E-02	3.413E-03	3.413E-03
1000 - 1100	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.95	1.997E-02	7.765E-03	4.333E-04	4.333E-04	1.179E-01	4.586E-02	2.559E-03	2.559E-03
1100 - 1200	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.95	1.997E-02	7.765E-03	4.333E-04	4.333E-04	1.179E-01	4.586E-02	2.559E-03	2.559E-03
1200 - 1300	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.95	1.997E-02	7.765E-03	4.333E-04	4.333E-04	1.179E-01	4.586E-02	2.559E-03	2.559E-03
1300 - 1400	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.95	1.997E-02	7.765E-03	4.333E-04	4.333E-04	1.179E-01	4.586E-02	2.559E-03	2.559E-03
1400 - 1500	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.95	1.997E-02	7.765E-03	4.333E-04	4.333E-04	1.179E-01	4.586E-02	2.559E-03	2.559E-03
1500 - 1600	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.94	1.997E-02	7.765E-03	4.333E-04	4.333E-04	1.573E-01	6.115E-02	3.413E-03	3.413E-03
1600 - 1700	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.94	1.997E-02	7.765E-03	4.333E-04	4.333E-04	1.573E-01	6.115E-02	3.413E-03	3.413E-03
1700 - 1800	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.92	1.997E-02	7.765E-03	4.333E-04	4.333E-04	1.966E-01	7.644E-02	4.266E-03	4.266E-03
1800 - 1900	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.88	1.997E-02	7.765E-03	4.333E-04	4.333E-04	3.145E-01	1.223E-01	6.825E-03	6.825E-03
1900 - 2000	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.92	1.997E-02	7.765E-03	4.333E-04	4.333E-04	1.966E-01	7.644E-02	4.266E-03	4.266E-03
2000 - 2100	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.95	1.997E-02	7.765E-03	4.333E-04	4.333E-04	1.179E-01	4.586E-02	2.559E-03	2.559E-03
2100 - 2200	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.95	1.997E-02	7.765E-03	4.333E-04	4.333E-04	1.179E-01	4.586E-02	2.559E-03	2.559E-03
2200 - 2300	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.97	1.997E-02	7.765E-03	4.333E-04	4.333E-04	7.863E-02	3.058E-02	1.706E-03	1.706E-03
2300 - 2400	0.00	4.320E-02	1.680E-02	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.98	1.997E-02	7.765E-03	4.333E-04	4.333E-04	3.932E-02	1.529E-02	8.532E-04	8.532E-04

Average Distance from Starting Place to PTI Egress =	50.0	m
Average Spread Distance outside PTI =	650.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within PTI (g)				Adjusted Starting Emission Outside PTI (g)				Starting Emission Rate Outside PTI (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.179E-01	4.586E-02	2.559E-03	2.559E-03	5.897E-02	2.293E-02	1.280E-03	1.280E-03	2.076E-02	8.066E-03	0.000E+00	0.000E+00	2.699E-01	1.049E-01	0.000E+00	0.000E+00	7.498E-05	2.913E-05	0.000E+00	0.000E+00
0700 - 0800	2.752E-01	1.070E-01	5.972E-03	5.972E-03	1.376E-01	5.351E-02	2.986E-03	2.986E-03	4.845E-02	1.882E-02	0.000E+00	0.000E+00	6.298E-01	2.447E-01	0.000E+00	0.000E+00	1.750E-04	6.796E-05	0.000E+00	0.000E+00
0800 - 0900	3.145E-01	1.223E-01	6.825E-03	6.825E-03	1.573E-01	6.115E-02	3.413E-03	3.413E-03	5.537E-02	2.151E-02	0.000E+00	0.000E+00	7.198E-01	2.796E-01	0.000E+00	0.000E+00	1.999E-04	7.767E-05	0.000E+00	0.000E+00
0900 - 1000	1.573E-01	6.115E-02	3.413E-03	3.413E-03	7.863E-02	3.058E-02	1.706E-03	1.706E-03	2.768E-02	1.075E-02	0.000E+00	0.000E+00	3.599E-01	1.398E-01	0.000E+00	0.000E+00	9.997E-05	3.883E-05	0.000E+00	0.000E+00
1000 - 1100	1.179E-01	4.586E-02	2.559E-03	2.559E-03	5.897E-02	2.293E-02	1.280E-03	1.280E-03	2.076E-02	8.066E-03	0.000E+00	0.000E+00	2.699E-01	1.049E-01	0.000E+00	0.000E+00	7.498E-05	2.913E-05	0.000E+00	0.000E+00
1100 - 1200	1.179E-01	4.586E-02	2.559E-03	2.559E-03	5.897E-02	2.293E-02	1.280E-03	1.280E-03	2.076E-02	8.066E-03	0.000E+00	0.000E+00	2.699E-01	1.049E-01	0.000E+00	0.000E+00	7.498E-05	2.913E-05	0.000E+00	0.000E+00
1200 - 1300	1.179E-01	4.586E-02	2.559E-03	2.559E-03	5.897E-02	2.293E-02	1.280E-03	1.280E-03	2.076E-02	8.066E-03	0.000E+00	0.000E+00	2.699E-01	1.049E-01	0.000E+00	0.000E+00	7.498E-05	2.913E-05	0.000E+00	0.000E+00
1300 - 1400	1.179E-01	4.586E-02	2.559E-03	2.559E-03	5.897E-02	2.293E-02	1.280E-03	1.280E-03	2.076E-02	8.066E-03	0.000E+00	0.000E+00	2.699E-01	1.049E-01	0.000E+00	0.000E+00	7.498E-05	2.913E-05	0.000E+00	0.000E+00
1400 - 1500	1.179E-01	4.586E-02	2.559E-03	2.559E-03	5.897E-02	2.293E-02	1.280E-03	1.280E-03	2.076E-02	8.066E-03	0.000E+00	0.000E+00	2.699E-01	1.049E-01	0.000E+00	0.000E+00	7.498E-05	2.913E-05	0.000E+00	0.000E+00
1500 - 1600	1.573E-01	6.115E-02	3.413E-03	3.413E-03	7.863E-02	3.058E-02	1.706E-03	1.706E-03	2.768E-02	1.075E-02	0.000E+00	0.000E+00	3.599E-01	1.398E-01	0.000E+00	0.000E+00	9.997E-05	3.883E-05	0.000E+00	0.000E+00
1600 - 1700	1.573E-01	6.115E-02	3.413E-03	3.413E-03	7.863E-02	3.058E-02	1.706E-03	1.706E-03	2.768E-02	1.075E-02	0.000E+00	0.000E+00	3.599E-01	1.398E-01	0.000E+00	0.000E+00	9.997E-05	3.883E-05	0.000E+00	0.000E+00
1700 - 1800	1.966E-01	7.644E-02	4.266E-03	4.266E-03	9.829E-02	3.822E-02	2.133E-03	2.133E-03	3.461E-02	1.344E-02	0.000E+00	0.000E+00	4.499E-01	1.748E-01	0.000E+00	0.000E+00	1.250E-04	4.854E-05	0.000E+00	0.000E+00
1800 - 1900	3.145E-01	1.223E-01	6.825E-03	6.825E-03	1.573E-01	6.115E-02	3.413E-03	3.413E-03	5.537E-02	2.151E-02	0.000E+00	0.000E+00	7.198E-01	2.796E-01	0.000E+00	0.000E+00	1.999E-04	7.767E-05	0.000E+00	0.000E+00
1900 - 2000	1.966E-01	7.644E-02	4.266E-03	4.266E-03	9.829E-02	3.822E-02	2.133E-03	2.133E-03	3.461E-02	1.344E-02	0.000E+00	0.000E+00	4.499E-01	1.748E-01	0.000E+00	0.000E+00	1.250E-04	4.854E-05	0.000E+00	0.000E+00
2000 - 2100	1.179E-01	4.586E-02	2.559E-03	2.559E-03	5.897E-02	2.293E-02	1.280E-03	1.280E-03	2.076E-02	8.066E-03	0.000E+00	0.000E+00	2.699E-01	1.049E-01	0.000E+00	0.000E+00	7.498E-05	2.913E-05	0.000E+00	0.000E+00
2100 - 2200	1.179E-01	4.586E-02	2.559E-03	2.559E-03	5.897E-02	2.293E-02	1.280E-03	1.280E-03	2.076E-02	8.066E-03	0.000E+00	0.000E+00	2.699E-01	1.049E-01	0.000E+00	0.000E+00	7.498E-05	2.913E-05	0.000E+00	0.000E+00
2200 - 2300	7.863E-02	3.058E-02	1.706E-03	1.706E-03	3.932E-02	1.529E-02	8.532E-04	8.532E-04	1.384E-02	5.377E-03	0.000E+00	0.000E+00	1.800E-01	6.990E-02	0.000E+00	0.000E+00	4.999E-05	1.942E-05	0.000E+00	0.000E+00
2300 - 2400	3.932E-02	1.529E-02	8.532E-04	8.532E-04	1.966E-02	7.644E-03	4.266E-04	4.266E-04	6.921E-03	2.689E-03	0.000E+00	0.000E+00	8.998E-02	3.495E-02	0.000E+00	0.000E+00	2.499E-05	9.709E-06	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Lok Ma Chau Station PTI (PLB_LPG)

Starting Emission

No. of PLB(Diesel) to No. of PLB (LPG) Ratio =		63.17

	Starting Emission Factor (g/trip)																	
NO	2.046E+00	3.083E+00	4.904E+00	6.387E+00	7.534E+00	8.343E+00	8.816E+00	9.141E+00	9.107E+00	9.056E+00	8.987E+00	8.900E+00	8.795E+00	8.673E+00	8.533E+00	8.375E+00	8.200E+00	8.007E+00
NO_2	1.030E-02	1.550E-02	2.460E-02	3.210E-02	3.790E-02	4.190E-02	4.430E-02	4.590E-02	4.580E-02	4.550E-02	4.520E-02	4.470E-02	4.420E-02	4.360E-02	4.290E-02	4.210E-02	4.120E-02	4.020E-02
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of PLB_LPG**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.293E-01	1.150E-03	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.349E-01	2.684E-03	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.114E-01	3.067E-03	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.057E-01	1.533E-03	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.293E-01	1.150E-03	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.293E-01	1.150E-03	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.293E-01	1.150E-03	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.293E-01	1.150E-03	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.293E-01	1.150E-03	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.057E-01	1.533E-03	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.057E-01	1.533E-03	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.821E-01	1.917E-03	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.114E-01	3.067E-03	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.821E-01	1.917E-03	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.293E-01	1.150E-03	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.293E-01	1.150E-03	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.528E-01	7.667E-04	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.642E-02	3.834E-04	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the PTI and operators' published schedules, while sitting time were obtained based on on-site observations at PTI.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Lok Ma Chau Station PTI (PLB_LPG)

Cold Idling Emission

Idling Time for Terminating PLB =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	PLB (LPG)									PLB (LPG)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.05	3.058E-01	1.531E-03	4.683E-04	4.683E-04	2.860E-02	1.432E-04	4.379E-05	4.379E-05
0700 - 0800	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.11	3.058E-01	1.531E-03	4.683E-04	4.683E-04	6.673E-02	3.340E-04	1.022E-04	1.022E-04
0800 - 0900	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.12	3.058E-01	1.531E-03	4.683E-04	4.683E-04	7.626E-02	3.817E-04	1.168E-04	1.168E-04
0900 - 1000	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.06	3.058E-01	1.531E-03	4.683E-04	4.683E-04	3.813E-02	1.909E-04	5.838E-05	5.838E-05
1000 - 1100	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.05	3.058E-01	1.531E-03	4.683E-04	4.683E-04	2.860E-02	1.432E-04	4.379E-05	4.379E-05
1100 - 1200	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.05	3.058E-01	1.531E-03	4.683E-04	4.683E-04	2.860E-02	1.432E-04	4.379E-05	4.379E-05
1200 - 1300	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.05	3.058E-01	1.531E-03	4.683E-04	4.683E-04	2.860E-02	1.432E-04	4.379E-05	4.379E-05
1300 - 1400	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.05	3.058E-01	1.531E-03	4.683E-04	4.683E-04	2.860E-02	1.432E-04	4.379E-05	4.379E-05
1400 - 1500	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.05	3.058E-01	1.531E-03	4.683E-04	4.683E-04	2.860E-02	1.432E-04	4.379E-05	4.379E-05
1500 - 1600	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.06	3.058E-01	1.531E-03	4.683E-04	4.683E-04	3.813E-02	1.909E-04	5.838E-05	5.838E-05
1600 - 1700	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.06	3.058E-01	1.531E-03	4.683E-04	4.683E-04	3.813E-02	1.909E-04	5.838E-05	5.838E-05
1700 - 1800	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.08	3.058E-01	1.531E-03	4.683E-04	4.683E-04	4.766E-02	2.386E-04	7.298E-05	7.298E-05
1800 - 1900	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.12	3.058E-01	1.531E-03	4.683E-04	4.683E-04	7.626E-02	3.817E-04	1.168E-04	1.168E-04
1900 - 2000	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.08	3.058E-01	1.531E-03	4.683E-04	4.683E-04	4.766E-02	2.386E-04	7.298E-05	7.298E-05
2000 - 2100	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.05	3.058E-01	1.531E-03	4.683E-04	4.683E-04	2.860E-02	1.432E-04	4.379E-05	4.379E-05
2100 - 2200	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.05	3.058E-01	1.531E-03	4.683E-04	4.683E-04	2.860E-02	1.432E-04	4.379E-05	4.379E-05
2200 - 2300	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	3.058E-01	1.531E-03	4.683E-04	4.683E-04	1.906E-02	9.543E-05	2.919E-05	2.919E-05
2300 - 2400	0.00	2.353E-01	1.178E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.02	3.058E-01	1.531E-03	4.683E-04	4.683E-04	9.532E-03	4.772E-05	1.460E-05	1.460E-05

Average Distance from Starting Place to PTI Egress =	50.0	m
Average Spread Distance outside PTI =	100.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within PTI (g)				Adjusted Starting Emission Outside PTI (g)				Starting Emission Rate Outside PTI (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.860E-02	1.432E-04	4.379E-05	4.379E-05	1.430E-02	7.158E-05	2.189E-05	2.189E-05	7.165E-02	3.595E-04	0.000E+00	0.000E+00	1.433E-01	7.190E-04	0.000E+00	0.000E+00	3.981E-05	1.997E-07	0.000E+00	0.000E+00
0700 - 0800	6.673E-02	3.340E-04	1.022E-04	1.022E-04	3.336E-02	1.670E-04	5.108E-05	5.108E-05	1.672E-01	8.388E-04	0.000E+00	0.000E+00	3.344E-01	1.678E-03	0.000E+00	0.000E+00	9.288E-05	4.660E-07	0.000E+00	0.000E+00
0800 - 0900	7.626E-02	3.817E-04	1.168E-04	1.168E-04	3.813E-02	1.909E-04	5.838E-05	5.838E-05	1.911E-01	9.587E-04	0.000E+00	0.000E+00	3.821E-01	1.917E-03	0.000E+00	0.000E+00	1.062E-04	5.326E-07	0.000E+00	0.000E+00
0900 - 1000	3.813E-02	1.909E-04	5.838E-05	5.838E-05	1.906E-02	9.543E-05	2.919E-05	2.919E-05	9.554E-02	4.793E-04	0.000E+00	0.000E+00	1.911E-01	9.587E-04	0.000E+00	0.000E+00	5.308E-05	2.663E-07	0.000E+00	0.000E+00
1000 - 1100	2.860E-02	1.432E-04	4.379E-05	4.379E-05	1.430E-02	7.158E-05	2.189E-05	2.189E-05	7.165E-02	3.595E-04	0.000E+00	0.000E+00	1.433E-01	7.190E-04	0.000E+00	0.000E+00	3.981E-05	1.997E-07	0.000E+00	0.000E+00
1100 - 1200	2.860E-02	1.432E-04	4.379E-05	4.379E-05	1.430E-02	7.158E-05	2.189E-05	2.189E-05	7.165E-02	3.595E-04	0.000E+00	0.000E+00	1.433E-01	7.190E-04	0.000E+00	0.000E+00	3.981E-05	1.997E-07	0.000E+00	0.000E+00
1200 - 1300	2.860E-02	1.432E-04	4.379E-05	4.379E-05	1.430E-02	7.158E-05	2.189E-05	2.189E-05	7.165E-02	3.595E-04	0.000E+00	0.000E+00	1.433E-01	7.190E-04	0.000E+00	0.000E+00	3.981E-05	1.997E-07	0.000E+00	0.000E+00
1300 - 1400	2.860E-02	1.432E-04	4.379E-05	4.379E-05	1.430E-02	7.158E-05	2.189E-05	2.189E-05	7.165E-02	3.595E-04	0.000E+00	0.000E+00	1.433E-01	7.190E-04	0.000E+00	0.000E+00	3.981E-05	1.997E-07	0.000E+00	0.000E+00
1400 - 1500	2.860E-02	1.432E-04	4.379E-05	4.379E-05	1.430E-02	7.158E-05	2.189E-05	2.189E-05	7.165E-02	3.595E-04	0.000E+00	0.000E+00	1.433E-01	7.190E-04	0.000E+00	0.000E+00	3.981E-05	1.997E-07	0.000E+00	0.000E+00
1500 - 1600	3.813E-02	1.909E-04	5.838E-05	5.838E-05	1.906E-02	9.543E-05	2.919E-05	2.919E-05	9.554E-02	4.793E-04	0.000E+00	0.000E+00	1.911E-01	9.587E-04	0.000E+00	0.000E+00	5.308E-05	2.663E-07	0.000E+00	0.000E+00
1600 - 1700	3.813E-02	1.909E-04	5.838E-05	5.838E-05	1.906E-02	9.543E-05	2.919E-05	2.919E-05	9.554E-02	4.793E-04	0.000E+00	0.000E+00	1.911E-01	9.587E-04	0.000E+00	0.000E+00	5.308E-05	2.663E-07	0.000E+00	0.000E+00
1700 - 1800	4.766E-02	2.386E-04	7.298E-05	7.298E-05	2.383E-02	1.193E-04	3.649E-05	3.649E-05	1.194E-01	5.992E-04	0.000E+00	0.000E+00	2.388E-01	1.198E-03	0.000E+00	0.000E+00	6.635E-05	3.329E-07	0.000E+00	0.000E+00
1800 - 1900	7.626E-02	3.817E-04	1.168E-04	1.168E-04	3.813E-02	1.909E-04	5.838E-05	5.838E-05	1.911E-01	9.587E-04	0.000E+00	0.000E+00	3.821E-01	1.917E-03	0.000E+00	0.000E+00	1.062E-04	5.326E-07	0.000E+00	0.000E+00
1900 - 2000	4.766E-02	2.386E-04	7.298E-05	7.298E-05	2.383E-02	1.193E-04	3.649E-05	3.649E-05	1.194E-01	5.992E-04	0.000E+00	0.000E+00	2.388E-01	1.198E-03	0.000E+00	0.000E+00	6.635E-05	3.329E-07	0.000E+00	0.000E+00
2000 - 2100	2.860E-02	1.432E-04	4.379E-05	4.379E-05	1.430E-02	7.158E-05	2.189E-05	2.189E-05	7.165E-02	3.595E-04	0.000E+00	0.000E+00	1.433E-01	7.190E-04	0.000E+00	0.000E+00	3.981E-05	1.997E-07	0.000E+00	0.000E+00
2100 - 2200	2.860E-02	1.432E-04	4.379E-05	4.379E-05	1.430E-02	7.158E-05	2.189E-05	2.189E-05	7.165E-02	3.595E-04	0.000E+00	0.000E+00	1.433E-01	7.190E-04	0.000E+00	0.000E+00	3.981E-05	1.997E-07	0.000E+00	0.000E+00
2200 - 2300	1.906E-02	9.543E-05	2.919E-05	2.919E-05	9.532E-03	4.772E-05	1.460E-05	1.460E-05	4.777E-02	2.397E-04	0.000E+00	0.000E+00	9.554E-02	4.793E-04	0.000E+00	0.000E+00	2.654E-05	1.332E-07	0.000E+00	0.000E+00
2300 - 2400	9.532E-03	4.772E-05	1.460E-05	1.460E-05	4.766E-03	2.386E-05	7.298E-06	7.298E-06	2.388E-02	1.198E-04	0.000E+00	0.000E+00	4.777E-02	2.397E-04	0.000E+00	0.000E+00	1.327E-05	6.658E-08	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Lok Ma Chau Station PTI (PLB)

Running Emission

Average Travelling Distance within PTI =	100	m
Average Travelling Speed =	10	km/h

Hour	PLB								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within PTI (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	3.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	1.711E-01	6.225E-02	1.575E-02	1.449E-02
0700 - 0800	7.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	3.991E-01	1.452E-01	3.675E-02	3.381E-02
0800 - 0900	8.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	4.562E-01	1.660E-01	4.200E-02	3.864E-02
0900 - 1000	4.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	2.281E-01	8.300E-02	2.100E-02	1.932E-02
1000 - 1100	3.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	1.711E-01	6.225E-02	1.575E-02	1.449E-02
1100 - 1200	3.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	1.711E-01	6.225E-02	1.575E-02	1.449E-02
1200 - 1300	3.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	1.711E-01	6.225E-02	1.575E-02	1.449E-02
1300 - 1400	3.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	1.711E-01	6.225E-02	1.575E-02	1.449E-02
1400 - 1500	3.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	1.711E-01	6.225E-02	1.575E-02	1.449E-02
1500 - 1600	4.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	2.281E-01	8.300E-02	2.100E-02	1.932E-02
1600 - 1700	4.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	2.281E-01	8.300E-02	2.100E-02	1.932E-02
1700 - 1800	5.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	2.851E-01	1.037E-01	2.625E-02	2.415E-02
1800 - 1900	8.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	4.562E-01	1.660E-01	4.200E-02	3.864E-02
1900 - 2000	5.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	2.851E-01	1.037E-01	2.625E-02	2.415E-02
2000 - 2100	3.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	1.711E-01	6.225E-02	1.575E-02	1.449E-02
2100 - 2200	3.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	1.711E-01	6.225E-02	1.575E-02	1.449E-02
2200 - 2300	2.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	1.140E-01	4.150E-02	1.050E-02	9.660E-03
2300 - 2400	1.00	5.702E-01	2.075E-01	5.250E-02	4.830E-02	5.702E-02	2.075E-02	5.250E-03	4.830E-03

Idling Emission

No. of PLB (Diesel) to No. of PLB (LPG) Ratio [1] =	63.17	
Idling Time for Non-terminating PLBs =	0.5	min

Hour	PLB (Diesel)									PLB (LPG)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.997E-02	7.765E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	3.058E-01	1.531E-03	4.683E-04	4.683E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of PLB (Diesel) to PLB (LPG) was extracted from Year 2039 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Lok Ma Chau Station PTI (PLB)

Total Hourly Emission

Hour	Emission Within PTI							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	4.100E-01	1.167E-01	1.835E-02	1.709E-02	1.139E-04	3.241E-05	5.098E-06	4.748E-06
0700 - 0800	9.567E-01	2.723E-01	4.282E-02	3.988E-02	2.658E-04	7.563E-05	1.190E-05	1.108E-05
0800 - 0900	1.093E+00	3.112E-01	4.894E-02	4.558E-02	3.037E-04	8.643E-05	1.360E-05	1.266E-05
0900 - 1000	5.467E-01	1.556E-01	2.447E-02	2.279E-02	1.519E-04	4.322E-05	6.798E-06	6.331E-06
1000 - 1100	4.100E-01	1.167E-01	1.835E-02	1.709E-02	1.139E-04	3.241E-05	5.098E-06	4.748E-06
1100 - 1200	4.100E-01	1.167E-01	1.835E-02	1.709E-02	1.139E-04	3.241E-05	5.098E-06	4.748E-06
1200 - 1300	4.100E-01	1.167E-01	1.835E-02	1.709E-02	1.139E-04	3.241E-05	5.098E-06	4.748E-06
1300 - 1400	4.100E-01	1.167E-01	1.835E-02	1.709E-02	1.139E-04	3.241E-05	5.098E-06	4.748E-06
1400 - 1500	4.100E-01	1.167E-01	1.835E-02	1.709E-02	1.139E-04	3.241E-05	5.098E-06	4.748E-06
1500 - 1600	5.467E-01	1.556E-01	2.447E-02	2.279E-02	1.519E-04	4.322E-05	6.798E-06	6.331E-06
1600 - 1700	5.467E-01	1.556E-01	2.447E-02	2.279E-02	1.519E-04	4.322E-05	6.798E-06	6.331E-06
1700 - 1800	6.834E-01	1.945E-01	3.059E-02	2.849E-02	1.898E-04	5.402E-05	8.497E-06	7.914E-06
1800 - 1900	1.093E+00	3.112E-01	4.894E-02	4.558E-02	3.037E-04	8.643E-05	1.360E-05	1.266E-05
1900 - 2000	6.834E-01	1.945E-01	3.059E-02	2.849E-02	1.898E-04	5.402E-05	8.497E-06	7.914E-06
2000 - 2100	4.100E-01	1.167E-01	1.835E-02	1.709E-02	1.139E-04	3.241E-05	5.098E-06	4.748E-06
2100 - 2200	4.100E-01	1.167E-01	1.835E-02	1.709E-02	1.139E-04	3.241E-05	5.098E-06	4.748E-06
2200 - 2300	2.733E-01	7.779E-02	1.224E-02	1.140E-02	7.593E-05	2.161E-05	3.399E-06	3.165E-06
2300 - 2400	1.367E-01	3.889E-02	6.118E-03	5.698E-03	3.797E-05	1.080E-05	1.699E-06	1.583E-06

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Lok Ma Chau Loop PTI(FBDD_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	2.376E-01	4.277E-01	5.704E-01	8.079E-01	9.981E-01	1.331E+00	1.949E+00	2.424E+00	3.564E+00	4.658E+00	5.228E+00	6.178E+00	6.796E+00	7.129E+00	7.319E+00	7.509E+00	7.604E+00	7.604E+00
NO_2	9.710E-02	1.747E-01	2.329E-01	3.300E-01	4.076E-01	5.435E-01	7.959E-01	9.900E-01	1.456E+00	1.902E+00	2.135E+00	2.524E+00	2.776E+00	2.912E+00	2.989E+00	3.067E+00	3.106E+00	3.106E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	No. of Cold Starts of FBDD																	
Sitting Time (min)	5	10	20	30	40	50	60	120	180	240	300	360	420	480	540	600	660	720
0000 - 0100	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	NO_2	RSP	FSP
1.141E+00	4.658E-01	0.000E+00	0.000E+00
5.704E-01	2.329E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.141E+00	4.658E-01	0.000E+00	0.000E+00
5.704E+00	2.329E+00	0.000E+00	0.000E+00
1.654E+01	6.754E+00	0.000E+00	0.000E+00
1.711E+01	6.987E+00	0.000E+00	0.000E+00
9.126E+00	3.726E+00	0.000E+00	0.000E+00
6.845E+00	2.795E+00	0.000E+00	0.000E+00
5.704E+00	2.329E+00	0.000E+00	0.000E+00
6.274E+00	2.562E+00	0.000E+00	0.000E+00
5.704E+00	2.329E+00	0.000E+00	0.000E+00
5.704E+00	2.329E+00	0.000E+00	0.000E+00
8.556E+00	3.494E+00	0.000E+00	0.000E+00
9.697E+00	3.959E+00	0.000E+00	0.000E+00
1.198E+01	4.891E+00	0.000E+00	0.000E+00
1.768E+01	7.220E+00	0.000E+00	0.000E+00
1.084E+01	4.425E+00	0.000E+00	0.000E+00
6.845E+00	2.795E+00	0.000E+00	0.000E+00
5.704E+00	2.329E+00	0.000E+00	0.000E+00
3.993E+00	1.630E+00	0.000E+00	0.000E+00
2.852E+00	1.165E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the PTI and operators' published schedules, while sitting time were obtained based on on-site observations at PTI.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Lok Ma Chau Loop PTI(FBDD_Diesel)

Cold Idling Emission

Idling Time for Terminating Buses =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	FBDD (Diesel)									FBDD (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.292E-01	5.278E-02	1.040E-03	1.040E-03
0100 - 0200	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	6.461E-02	2.639E-02	5.200E-04	5.200E-04
0200 - 0300	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.292E-01	5.278E-02	1.040E-03	1.040E-03
0600 - 0700	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	10.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	6.461E-01	2.639E-01	5.200E-03	5.200E-03
0700 - 0800	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	29.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.874E+00	7.653E-01	1.508E-02	1.508E-02
0800 - 0900	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	30.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.938E+00	7.917E-01	1.560E-02	1.560E-02
0900 - 1000	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	16.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.034E+00	4.223E-01	8.320E-03	8.320E-03
1000 - 1100	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	12.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	7.753E-01	3.167E-01	6.240E-03	6.240E-03
1100 - 1200	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	10.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	6.461E-01	2.639E-01	5.200E-03	5.200E-03
1200 - 1300	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	11.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	7.107E-01	2.903E-01	5.720E-03	5.720E-03
1300 - 1400	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	10.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	6.461E-01	2.639E-01	5.200E-03	5.200E-03
1400 - 1500	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	10.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	6.461E-01	2.639E-01	5.200E-03	5.200E-03
1500 - 1600	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	15.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	9.691E-01	3.959E-01	7.800E-03	7.800E-03
1600 - 1700	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	17.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.098E+00	4.486E-01	8.840E-03	8.840E-03
1700 - 1800	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	21.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.357E+00	5.542E-01	1.092E-02	1.092E-02
1800 - 1900	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	31.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	2.003E+00	8.181E-01	1.612E-02	1.612E-02
1900 - 2000	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	19.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	1.228E+00	5.014E-01	9.880E-03	9.880E-03
2000 - 2100	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	12.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	7.753E-01	3.167E-01	6.240E-03	6.240E-03
2100 - 2200	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	10.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	6.461E-01	2.639E-01	5.200E-03	5.200E-03
2200 - 2300	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	4.523E-01	1.847E-01	3.640E-03	3.640E-03
2300 - 2400	0.00	9.585E-01	3.915E-01	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	3.230E-01	1.320E-01	2.600E-03	2.600E-03

Average Distance from Starting Place to PTI Egress =	100	m
Average Spread Distance outside PTI =	600	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within PTI (g)				Adjusted Starting Emission Outside PTI (g)				Starting Emission Rate Outside PTI (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	1.292E-01	5.278E-02	1.040E-03	1.040E-03	6.461E-02	2.639E-02	5.200E-04	5.200E-04	1.537E-01	6.277E-02	0.000E+00	0.000E+00	9.224E-01	3.766E-01	0.000E+00	0.000E+00	2.562E-04	1.046E-04	0.000E+00	0.000E+00
0100 - 0200	6.461E-02	2.639E-02	5.200E-04	5.200E-04	3.230E-02	1.320E-02	2.600E-04	2.600E-04	7.687E-02	3.139E-02	0.000E+00	0.000E+00	4.612E-01	1.883E-01	0.000E+00	0.000E+00	1.281E-04	5.231E-05	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	1.292E-01	5.278E-02	1.040E-03	1.040E-03	6.461E-02	2.639E-02	5.200E-04	5.200E-04	1.537E-01	6.277E-02	0.000E+00	0.000E+00	9.224E-01	3.766E-01	0.000E+00	0.000E+00	2.562E-04	1.046E-04	0.000E+00	0.000E+00
0600 - 0700	6.461E-01	2.639E-01	5.200E-03	5.200E-03	3.230E-01	1.320E-01	2.600E-03	2.600E-03	7.687E-01	3.139E-01	0.000E+00	0.000E+00	4.612E+00	1.883E+00	0.000E+00	0.000E+00	1.281E-03	5.231E-04	0.000E+00	0.000E+00
0700 - 0800	1.874E+00	7.653E-01	1.508E-02	1.508E-02	9.368E-01	3.827E-01	7.540E-03	7.540E-03	2.229E+00	9.102E-01	0.000E+00	0.000E+00	1.338E+01	5.461E+00	0.000E+00	0.000E+00	3.715E-03	1.517E-03	0.000E+00	0.000E+00
0800 - 0900	1.938E+00	7.917E-01	1.560E-02	1.560E-02	9.691E-01	3.959E-01	7.800E-03	7.800E-03	2.306E+00	9.416E-01	0.000E+00	0.000E+00	1.384E+01	5.650E+00	0.000E+00	0.000E+00	3.844E-03	1.569E-03	0.000E+00	0.000E+00
0900 - 1000	1.034E+00	4.223E-01	8.320E-03	8.320E-03	5.169E-01	2.111E-01	4.160E-03	4.160E-03	1.230E+00	5.022E-01	0.000E+00	0.000E+00	7.380E+00	3.013E+00	0.000E+00	0.000E+00	2.050E-03	8.370E-04	0.000E+00	0.000E+00
1000 - 1100	7.753E-01	3.167E-01	6.240E-03	6.240E-03	3.877E-01	1.583E-01	3.120E-03	3.120E-03	9.224E-01	3.766E-01	0.000E+00	0.000E+00	5.535E+00	2.260E+00	0.000E+00	0.000E+00	1.537E-03	6.277E-04	0.000E+00	0.000E+00
1100 - 1200	6.461E-01	2.639E-01	5.200E-03	5.200E-03	3.230E-01	1.320E-01	2.600E-03	2.600E-03	7.687E-01	3.139E-01	0.000E+00	0.000E+00	4.612E+00	1.883E+00	0.000E+00	0.000E+00	1.281E-03	5.231E-04	0.000E+00	0.000E+00
1200 - 1300	7.107E-01	2.903E-01	5.720E-03	5.720E-03	3.553E-01	1.452E-01	2.860E-03	2.860E-03	8.456E-01	3.452E-01	0.000E+00	0.000E+00	5.073E+00	2.071E+00	0.000E+00	0.000E+00	1.409E-03	5.754E-04	0.000E+00	0.000E+00
1300 - 1400	6.461E-01	2.639E-01	5.200E-03	5.200E-03	3.230E-01	1.320E-01	2.600E-03	2.600E-03	7.687E-01	3.139E-01	0.000E+00	0.000E+00	4.612E+00	1.883E+00	0.000E+00	0.000E+00	1.281E-03	5.231E-04	0.000E+00	0.000E+00
1400 - 1500	6.461E-01	2.639E-01	5.200E-03	5.200E-03	3.230E-01	1.320E-01	2.600E-03	2.600E-03	7.687E-01	3.139E-01	0.000E+00	0.000E+00	4.612E+00	1.883E+00	0.000E+00	0.000E+00	1.281E-03	5.231E-04	0.000E+00	0.000E+00
1500 - 1600	9.691E-01	3.959E-01	7.800E-03	7.800E-03	4.846E-01	1.979E-01	3.900E-03	3.900E-03	1.153E+00	4.708E-01	0.000E+00	0.000E+00	6.918E+00	2.825E+00	0.000E+00	0.000E+00	1.922E-03	7.847E-04	0.000E+00	0.000E+00
1600 - 1700	1.098E+00	4.486E-01	8.840E-03	8.840E-03	5.492E-01	2.243E-01	4.420E-03	4.420E-03	1.307E+00	5.336E-01	0.000E+00	0.000E+00	7.841E+00	3.201E+00	0.000E+00	0.000E+00	2.178E-03	8.893E-04	0.000E+00	0.000E+00
1700 - 1800	1.357E+00	5.542E-01	1.092E-02	1.092E-02	6.784E-01	2.771E-01	5.460E-03	5.460E-03	1.614E+00	6.591E-01	0.000E+00	0.000E+00	9.686E+00	3.955E+00	0.000E+00	0.000E+00	2.690E-03	1.099E-03	0.000E+00	0.000E+00
1800 - 1900	2.003E+00	8.181E-01	1.612E-02	1.612E-02	1.001E+00	4.091E-01	8.060E-03	8.060E-03	2.383E+00	9.730E-01	0.000E+00	0.000E+00	1.430E+01	5.838E+00	0.000E+00	0.000E+00	3.972E-03	1.622E-03	0.000E+00	0.000E+00
1900 - 2000	1.228E+00	5.014E-01	9.880E-03	9.880E-03	6.138E-01	2.507E-01	4.940E-03	4.940E-03	1.461E+00	5.963E-01	0.000E+00	0.000E+00	8.763E+00	3.578E+00	0.000E+00	0.000E+00	2.434E-03	9.939E-04	0.000E+00	0.000E+00
2000 - 2100	7.753E-01	3.167E-01	6.240E-03	6.240E-03	3.877E-01	1.583E-01	3.120E-03	3.120E-03	9.224E-01	3.766E-01	0.000E+00	0.000E+00	5.535E+00	2.260E+00	0.000E+00	0.000E+00	1.537E-03	6.277E-04	0.000E+00	0.000E+00
2100 - 2200	6.461E-01	2.639E-01	5.200E-03	5.200E-03	3.230E-01	1.320E-01	2.600E-03	2.600E-03	7.687E-01	3.139E-01	0.000E+00	0.000E+00	4.612E+00	1.883E+00	0.000E+00	0.000E+00	1.281E-03	5.231E-04	0.000E+00	0.000E+00
2200 - 2300	4.523E-01	1.847E-01	3.640E-03	3.640E-03	2.261E-01	9.237E-02	1.820E-03	1.820E-03	5.381E-01	2.197E-01	0.000E+00	0.000E+00	3.229E+00	1.318E+00	0.000E+00	0.000E+00	8.968E-04	3.662E-04	0.000E+00	0.000E+00
2300 - 2400	3.230E-01	1.320E-01	2.600E-03	2.600E-03	1.615E-01	6.598E-02	1.300E-03	1.300E-03	3.844E-01	1.569E-01	0.000E+00	0.000E+00	2.306E+00	9.416E-01	0.000E+00	0.000E+00	6.406E-04	2.616E-04	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Lok Ma Chau Loop PTI (FBDD)

Running Emission

Average Travelling Distance within PTI =	200	m
Average Travelling Speed =	10	km/h

Hour	FBDD								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within PTI (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	2	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.188E+00	4.853E-01	1.468E-02	1.348E-02
0100 - 0200	1	2.970E+00	1.213E+00	3.670E-02	3.370E-02	5.940E-01	2.426E-01	7.340E-03	6.740E-03
0200 - 0300	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0	2.970E+00	1.213E+00	3.670E-02	3.370E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	2	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.188E+00	4.853E-01	1.468E-02	1.348E-02
0600 - 0700	10	2.970E+00	1.213E+00	3.670E-02	3.370E-02	5.940E+00	2.426E+00	7.340E-02	6.740E-02
0700 - 0800	29	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.723E+01	7.037E+00	2.129E-01	1.955E-01
0800 - 0900	30	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.782E+01	7.279E+00	2.202E-01	2.022E-01
0900 - 1000	16	2.970E+00	1.213E+00	3.670E-02	3.370E-02	9.504E+00	3.882E+00	1.174E-01	1.078E-01
1000 - 1100	12	2.970E+00	1.213E+00	3.670E-02	3.370E-02	7.128E+00	2.912E+00	8.808E-02	8.088E-02
1100 - 1200	10	2.970E+00	1.213E+00	3.670E-02	3.370E-02	5.940E+00	2.426E+00	7.340E-02	6.740E-02
1200 - 1300	11	2.970E+00	1.213E+00	3.670E-02	3.370E-02	6.534E+00	2.669E+00	8.074E-02	7.414E-02
1300 - 1400	10	2.970E+00	1.213E+00	3.670E-02	3.370E-02	5.940E+00	2.426E+00	7.340E-02	6.740E-02
1400 - 1500	10	2.970E+00	1.213E+00	3.670E-02	3.370E-02	5.940E+00	2.426E+00	7.340E-02	6.740E-02
1500 - 1600	15	2.970E+00	1.213E+00	3.670E-02	3.370E-02	8.910E+00	3.640E+00	1.101E-01	1.011E-01
1600 - 1700	17	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.010E+01	4.125E+00	1.248E-01	1.146E-01
1700 - 1800	21	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.247E+01	5.095E+00	1.541E-01	1.415E-01
1800 - 1900	31	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.841E+01	7.522E+00	2.275E-01	2.089E-01
1900 - 2000	19	2.970E+00	1.213E+00	3.670E-02	3.370E-02	1.129E+01	4.610E+00	1.395E-01	1.281E-01
2000 - 2100	12	2.970E+00	1.213E+00	3.670E-02	3.370E-02	7.128E+00	2.912E+00	8.808E-02	8.088E-02
2100 - 2200	10	2.970E+00	1.213E+00	3.670E-02	3.370E-02	5.940E+00	2.426E+00	7.340E-02	6.740E-02
2200 - 2300	7	2.970E+00	1.213E+00	3.670E-02	3.370E-02	4.158E+00	1.698E+00	5.138E-02	4.718E-02
2300 - 2400	5	2.970E+00	1.213E+00	3.670E-02	3.370E-02	2.970E+00	1.213E+00	3.670E-02	3.370E-02

Idling Emission

Idling Time for Non-terminating Buses =	1	min

Hour	FBDD								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.230E-02	1.320E-02	2.600E-04	2.600E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Lok Ma Chau Loop PTI (FBDD)

Total Hourly Emission

Hour	Emission Within PTI							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	1.471E+00	6.008E-01	1.572E-02	1.452E-02	4.086E-04	1.669E-04	4.367E-06	4.033E-06
0100 - 0200	7.355E-01	3.004E-01	7.860E-03	7.260E-03	2.043E-04	8.345E-05	2.183E-06	2.017E-06
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	1.471E+00	6.008E-01	1.572E-02	1.452E-02	4.086E-04	1.669E-04	4.367E-06	4.033E-06
0600 - 0700	7.355E+00	3.004E+00	7.860E-02	7.260E-02	2.043E-03	8.345E-04	2.183E-05	2.017E-05
0700 - 0800	2.133E+01	8.712E+00	2.279E-01	2.105E-01	5.925E-03	2.420E-03	6.332E-05	5.848E-05
0800 - 0900	2.206E+01	9.013E+00	2.358E-01	2.178E-01	6.129E-03	2.503E-03	6.550E-05	6.050E-05
0900 - 1000	1.177E+01	4.807E+00	1.258E-01	1.162E-01	3.269E-03	1.335E-03	3.493E-05	3.227E-05
1000 - 1100	8.826E+00	3.605E+00	9.432E-02	8.712E-02	2.452E-03	1.001E-03	2.620E-05	2.420E-05
1100 - 1200	7.355E+00	3.004E+00	7.860E-02	7.260E-02	2.043E-03	8.345E-04	2.183E-05	2.017E-05
1200 - 1300	8.090E+00	3.305E+00	8.646E-02	7.986E-02	2.247E-03	9.179E-04	2.402E-05	2.218E-05
1300 - 1400	7.355E+00	3.004E+00	7.860E-02	7.260E-02	2.043E-03	8.345E-04	2.183E-05	2.017E-05
1400 - 1500	7.355E+00	3.004E+00	7.860E-02	7.260E-02	2.043E-03	8.345E-04	2.183E-05	2.017E-05
1500 - 1600	1.103E+01	4.506E+00	1.179E-01	1.089E-01	3.065E-03	1.252E-03	3.275E-05	3.025E-05
1600 - 1700	1.250E+01	5.107E+00	1.336E-01	1.234E-01	3.473E-03	1.419E-03	3.712E-05	3.428E-05
1700 - 1800	1.545E+01	6.309E+00	1.651E-01	1.525E-01	4.290E-03	1.752E-03	4.585E-05	4.235E-05
1800 - 1900	2.280E+01	9.313E+00	2.437E-01	2.251E-01	6.333E-03	2.587E-03	6.768E-05	6.252E-05
1900 - 2000	1.397E+01	5.708E+00	1.493E-01	1.379E-01	3.882E-03	1.586E-03	4.148E-05	3.832E-05
2000 - 2100	8.826E+00	3.605E+00	9.432E-02	8.712E-02	2.452E-03	1.001E-03	2.620E-05	2.420E-05
2100 - 2200	7.355E+00	3.004E+00	7.860E-02	7.260E-02	2.043E-03	8.345E-04	2.183E-05	2.017E-05
2200 - 2300	5.148E+00	2.103E+00	5.502E-02	5.082E-02	1.430E-03	5.841E-04	1.528E-05	1.412E-05
2300 - 2400	3.677E+00	1.502E+00	3.930E-02	3.630E-02	1.022E-03	4.172E-04	1.092E-05	1.008E-05

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (PC_Diesel)

Starting Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio =		0.01

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of PC_Diesel**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	**Total Starting Emission (g)**			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (PC_Diesel)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	PC (Diesel)									PC (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.01	3.236E-02	6.326E-03	1.024E-03	1.024E-03	9.551E-04	1.867E-04	3.024E-05	3.024E-05
1500 - 1600	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.01	3.236E-02	6.326E-03	1.024E-03	1.024E-03	9.551E-04	1.867E-04	3.024E-05	3.024E-05
1700 - 1800	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.01	3.236E-02	6.326E-03	1.024E-03	1.024E-03	9.551E-04	1.867E-04	3.024E-05	3.024E-05	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.01	3.236E-02	6.326E-03	1.024E-03	1.024E-03	9.551E-04	1.867E-04	3.024E-05	3.024E-05
2000 - 2100	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	9.551E-04	1.867E-04	3.024E-05	3.024E-05	4.776E-04	9.336E-05	1.512E-05	1.512E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	9.551E-04	1.867E-04	3.024E-05	3.024E-05	4.776E-04	9.336E-05	1.512E-05	1.512E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	9.551E-04	1.867E-04	3.024E-05	3.024E-05	4.776E-04	9.336E-05	1.512E-05	1.512E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	9.551E-04	1.867E-04	3.024E-05	3.024E-05	4.776E-04	9.336E-05	1.512E-05	1.512E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (PC_Petrol)

Starting Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio =		0.01

	Starting Emission Factor (g/trip)																	
NO	5.620E-02	5.720E-02	5.900E-02	6.080E-02	6.250E-02	6.410E-02	6.570E-02	7.310E-02	8.310E-02	8.250E-02	8.130E-02	7.960E-02	7.750E-02	7.500E-02	7.190E-02	6.850E-02	6.450E-02	6.000E-02
NO_2	3.000E-03	3.000E-03	3.100E-03	3.200E-03	3.300E-03	3.400E-03	3.500E-03	3.900E-03	4.400E-03	4.300E-03	4.300E-03	4.200E-03	4.100E-03	3.900E-03	3.800E-03	3.600E-03	3.400E-03	3.200E-03
RSP	4.000E-04	8.000E-04	1.500E-03	2.300E-03	3.000E-03	3.600E-03	4.300E-03	7.100E-03	7.900E-03	8.700E-03	9.300E-03	9.900E-03	1.040E-02	1.070E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.000E-04	7.000E-04	1.400E-03	2.100E-03	2.700E-03	3.400E-03	3.900E-03	6.500E-03	7.300E-03	8.000E-03	8.700E-03	9.200E-03	9.600E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	**No. of Cold Starts of PC_Petrol**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.537E-02	2.956E-03	3.941E-04	3.941E-04
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.636E-02	2.956E-03	7.882E-04	6.897E-04
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	7.636E-02	4.039E-03	1.025E-02	9.458E-03
1900 - 2000	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.813E-02	3.054E-03	1.478E-03	1.379E-03
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (PC_Petrol)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	PC (Petrol)									PC (Petrol)							
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.99	1.257E-03	6.547E-05	3.935E-06	3.935E-06	2.477E-03	1.290E-04	7.755E-06	7.755E-06
1500 - 1600	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.99	1.257E-03	6.547E-05	3.935E-06	3.935E-06	2.477E-03	1.290E-04	7.755E-06	7.755E-06
1700 - 1800	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.99	1.257E-03	6.547E-05	3.935E-06	3.935E-06	2.477E-03	1.290E-04	7.755E-06	7.755E-06	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.99	1.257E-03	6.547E-05	3.935E-06	3.935E-06	2.477E-03	1.290E-04	7.755E-06	7.755E-06
2000 - 2100	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	2.477E-03	1.290E-04	7.755E-06	7.755E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.537E-02	2.956E-03	3.941E-04	3.941E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.477E-03	1.290E-04	7.755E-06	7.755E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.636E-02	2.956E-03	7.882E-04	6.897E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.477E-03	1.290E-04	7.755E-06	7.755E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.636E-02	4.039E-03	1.025E-02	9.458E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	2.477E-03	1.290E-04	7.755E-06	7.755E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.813E-02	3.054E-03	1.478E-03	1.379E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (PC)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	PC								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	9.580E-03	5.200E-04	1.920E-03	1.780E-03
1500 - 1600	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	9.580E-03	5.200E-04	1.920E-03	1.780E-03
1700 - 1800	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	9.580E-03	5.200E-04	1.920E-03	1.780E-03
1900 - 2000	1.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	9.580E-03	5.200E-04	1.920E-03	1.780E-03
2000 - 2100	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio [1] =	0.01	
Idling Time for Non-terminating PCs =	0.5	min

Hour	PC (Diesel)									PC (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of PC (Diesel) to PC (Petrol) was extracted from Yaer 2039 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (PC)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	6.838E-02	3.791E-03	2.352E-03	2.212E-03	1.900E-05	1.053E-06	6.534E-07	6.145E-07
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	6.937E-02	3.791E-03	2.746E-03	2.508E-03	1.927E-05	1.053E-06	7.628E-07	6.966E-07
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	8.937E-02	4.875E-03	1.220E-02	1.128E-02	2.482E-05	1.354E-06	3.390E-06	3.132E-06
1900 - 2000	7.114E-02	3.890E-03	3.436E-03	3.197E-03	1.976E-05	1.081E-06	9.544E-07	8.881E-07
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (Taxi_LPG)

Starting Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio =		457876.06

	Starting Emission Factor (g/trip)																	
NO	1.014E+00	1.031E+00	1.064E+00	1.096E+00	1.126E+00	1.156E+00	1.185E+00	1.318E+00	1.498E+00	1.485E+00	1.464E+00	1.435E+00	1.397E+00	1.351E+00	1.296E+00	1.233E+00	1.162E+00	1.081E+00
NO_2	2.850E-02	2.890E-02	2.990E-02	3.070E-02	3.160E-02	3.240E-02	3.320E-02	3.700E-02	4.200E-02	4.170E-02	4.110E-02	4.030E-02	3.920E-02	3.790E-02	3.640E-02	3.460E-02	3.260E-02	3.040E-02
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of Taxi_LPG**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (Taxi_LPG)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (LPG)									Taxi (LPG)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	50.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (Taxi_Petrol)

Starting Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio =		457876.06

	Starting Emission Factor (g/trip)																	
NO	7.790E-02	7.910E-02	8.170E-02	8.420E-02	8.640E-02	8.870E-02	9.090E-02	1.013E-01	1.149E-01	1.140E-01	1.125E-01	1.102E-01	1.073E-01	1.037E-01	9.960E-02	9.470E-02	8.920E-02	8.300E-02
NO_2	4.100E-03	4.200E-03	4.300E-03	4.400E-03	4.600E-03	4.700E-03	4.800E-03	5.300E-03	6.100E-03	6.000E-03	5.900E-03	5.800E-03	5.600E-03	5.500E-03	5.200E-03	5.000E-03	4.700E-03	4.400E-03
RSP	4.000E-04	8.000E-04	1.500E-03	2.300E-03	3.000E-03	3.600E-03	4.200E-03	7.000E-03	7.900E-03	8.700E-03	9.300E-03	9.900E-03	1.040E-02	1.070E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.000E-04	7.000E-04	1.400E-03	2.100E-03	2.700E-03	3.400E-03	3.900E-03	6.500E-03	7.300E-03	8.000E-03	8.700E-03	9.200E-03	9.600E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	**No. of Cold Starts of Taxi_Petrol**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (Taxi_Petrol)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (Petrol)									Taxi (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	50.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (Taxi)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	Taxi								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio [1] =	457876.06	
Idling Time for Non-terminating Taxi =	0.5	min

Hour	Taxi (LPG)									Taxi (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of Taxi (LPG) to Taxi (Petrol) was extracted from Yaer 2039 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (Taxi)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (LGV3_Diesel)

Starting Emission

No. of LGV3 (Diesel) to No. of LGV3 (Petrol) Ratio =		29.76

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of LGV3_Diesel**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (LGV3_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV3 (Diesel)									LGV3 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.97	2.638E-02	1.602E-03	4.333E-04	4.333E-04	5.104E-02	3.100E-03	8.385E-04	8.385E-04
0900 - 1000	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.97	2.638E-02	1.602E-03	4.333E-04	4.333E-04	5.104E-02	3.100E-03	8.385E-04	8.385E-04
1200 - 1300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.97	2.638E-02	1.602E-03	4.333E-04	4.333E-04	5.104E-02	3.100E-03	8.385E-04	8.385E-04
1700 - 1800	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	5.104E-02	3.100E-03	8.385E-04	8.385E-04	2.552E-02	1.550E-03	4.192E-04	4.192E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	5.104E-02	3.100E-03	8.385E-04	8.385E-04	2.552E-02	1.550E-03	4.192E-04	4.192E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	5.104E-02	3.100E-03	8.385E-04	8.385E-04	2.552E-02	1.550E-03	4.192E-04	4.192E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (LGV3_Petrol)

Starting Emission

No. of LGV3 (Diesel) to No. of LGV3 (Petrol) Ratio =		29.76

	Starting Emission Factor (g/trip)																	
NO	3.580E-02	3.720E-02	3.990E-02	4.230E-02	4.430E-02	4.600E-02	4.730E-02	5.230E-02	5.890E-02	5.840E-02	5.770E-02	5.660E-02	5.520E-02	5.360E-02	5.160E-02	4.930E-02	4.670E-02	4.390E-02
NO_2	1.900E-03	2.000E-03	2.100E-03	2.200E-03	2.300E-03	2.400E-03	2.500E-03	2.700E-03	3.100E-03	3.100E-03	3.000E-03	3.000E-03	2.900E-03	2.800E-03	2.700E-03	2.600E-03	2.500E-03	2.300E-03
RSP	0.000E+00	0.000E+00	1.000E-04	1.000E-04	1.000E-04	2.000E-04	2.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	4.000E-04	4.000E-04	4.000E-04	4.000E-04	4.000E-04
FSP	0.000E+00	0.000E+00	1.000E-04	1.000E-04	1.000E-04	1.000E-04	2.000E-04	2.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	4.000E-04	4.000E-04

Hour	**No. of Cold Starts of LGV3_Petrol**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.297E-03	6.827E-05	3.251E-06	3.251E-06
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.209E-03	6.502E-05	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.440E-03	7.477E-05	3.251E-06	3.251E-06
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (LGV3_Petrol)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	LGV3 (Petrol)									LGV3 (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	1.522E-03	7.933E-05	5.835E-07	5.835E-07	9.896E-05	5.158E-06	3.794E-08	3.794E-08
0900 - 1000	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	1.522E-03	7.933E-05	5.835E-07	5.835E-07	9.896E-05	5.158E-06	3.794E-08	3.794E-08
1200 - 1300	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	1.522E-03	7.933E-05	5.835E-07	5.835E-07	9.896E-05	5.158E-06	3.794E-08	3.794E-08
1700 - 1800	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	9.896E-05	5.158E-06	3.794E-08	3.794E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.297E-03	6.827E-05	3.251E-06	3.251E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	9.896E-05	5.158E-06	3.794E-08	3.794E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.209E-03	6.502E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	9.896E-05	5.158E-06	3.794E-08	3.794E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.440E-03	7.477E-05	3.251E-06	3.251E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (LGV3)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	LGV3								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	3.261E-01	1.980E-02	2.900E-03	2.660E-03
0900 - 1000	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	3.261E-01	1.980E-02	2.900E-03	2.660E-03
1200 - 1300	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	3.261E-01	1.980E-02	2.900E-03	2.660E-03
1500 - 1600	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	3.261E-01	1.980E-02	2.900E-03	2.660E-03
1700 - 1800	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of LGV3 (Diesel) to No. of LGV3 (Petrol) Ratio [1] =	29.76	
Idling Time for Non-terminating LGV3s =	0.5	min

Hour	LGV3 (Diesel)									LGV3 (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.97	2.638E-02	1.602E-03	4.333E-04	4.333E-04	1.276E-02	7.751E-04	2.096E-04	2.096E-04	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	2.474E-05	1.290E-06	9.484E-09	9.484E-09
1500 - 1600	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of LGV3 (Diesel) to LGV3 (Petrol) was extracted from Yaer 2039 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (LGV3)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	3.786E-01	2.297E-02	3.742E-03	3.502E-03	1.052E-04	6.382E-06	1.039E-06	9.727E-07
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	3.785E-01	2.297E-02	3.739E-03	3.499E-03	1.051E-04	6.381E-06	1.038E-06	9.718E-07
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	3.389E-01	2.058E-02	3.110E-03	2.870E-03	9.415E-05	5.716E-06	8.638E-07	7.971E-07
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	3.787E-01	2.298E-02	3.742E-03	3.502E-03	1.052E-04	6.383E-06	1.039E-06	9.727E-07
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (LGV6_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	4.920E-02	8.860E-02	1.182E-01	1.675E-01	2.069E-01	2.758E-01	4.039E-01	5.024E-01	7.388E-01	9.654E-01	1.084E+00	1.281E+00	1.409E+00	1.478E+00	1.517E+00	1.556E+00	1.576E+00	1.576E+00
NO_2	1.920E-02	3.450E-02	4.600E-02	6.510E-02	8.040E-02	1.073E-01	1.571E-01	1.954E-01	2.873E-01	3.754E-01	4.214E-01	4.980E-01	5.478E-01	5.746E-01	5.900E-01	6.053E-01	6.129E-01	6.129E-01
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	No. of Cold Starts of LGV6																		Total Starting Emission (g)			
Sitting Time (min)	5	10	20	30	40	50	60	120	180	240	300	360	420	480	540	600	660	720	NO	NO_2	RSP	FSP
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.182E-01	4.600E-02	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.860E-02	3.450E-02	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.182E-01	4.600E-02	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.182E-01	4.600E-02	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (LGV6_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV6s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV6 (Diesel)									LGV6 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	4.971E-02	1.933E-02	3.971E-04	3.971E-04
1200 - 1300	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	4.971E-02	1.933E-02	3.971E-04	3.971E-04
1500 - 1600	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	4.971E-02	1.933E-02	3.971E-04	3.971E-04
1600 - 1700	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	4.971E-02	1.933E-02	3.971E-04	3.971E-04
1800 - 1900	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	4.971E-02	1.933E-02	3.971E-04	3.971E-04	2.485E-02	9.665E-03	1.986E-04	1.986E-04	1.334E-02	5.191E-03	0.000E+00	0.000E+00	8.001E-02	3.114E-02	0.000E+00	0.000E+00	2.223E-05	8.651E-06	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	4.971E-02	1.933E-02	3.971E-04	3.971E-04	2.485E-02	9.665E-03	1.986E-04	1.986E-04	9.107E-03	3.548E-03	0.000E+00	0.000E+00	5.464E-02	2.129E-02	0.000E+00	0.000E+00	1.518E-05	5.913E-06	0.000E+00	0.000E+00
1500 - 1600	4.971E-02	1.933E-02	3.971E-04	3.971E-04	2.485E-02	9.665E-03	1.986E-04	1.986E-04	1.334E-02	5.191E-03	0.000E+00	0.000E+00	8.001E-02	3.114E-02	0.000E+00	0.000E+00	2.223E-05	8.651E-06	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	4.971E-02	1.933E-02	3.971E-04	3.971E-04	2.485E-02	9.665E-03	1.986E-04	1.986E-04	1.334E-02	5.191E-03	0.000E+00	0.000E+00	8.001E-02	3.114E-02	0.000E+00	0.000E+00	2.223E-05	8.651E-06	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (LGV6)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	LGV6								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	3.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	4.304E-01	1.674E-01	1.296E-02	1.188E-02
1200 - 1300	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	2.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	2.870E-01	1.116E-01	8.640E-03	7.920E-03
1500 - 1600	2.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	2.870E-01	1.116E-01	8.640E-03	7.920E-03
1600 - 1700	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	1.435E-01	5.580E-02	4.320E-03	3.960E-03
1800 - 1900	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating LGV6s =	2	min

Hour	LGV6								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	2.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	9.941E-02	3.866E-02	7.942E-04	7.942E-04
1200 - 1300	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	4.971E-02	1.933E-02	3.971E-04	3.971E-04
1500 - 1600	1.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	4.971E-02	1.933E-02	3.971E-04	3.971E-04
1600 - 1700	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (LGV6)

Total Hourly Emission

	Emission Within Carpark							
Hour	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	5.929E-01	2.306E-01	1.415E-02	1.307E-02	1.647E-04	6.405E-05	3.931E-06	3.631E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	3.955E-01	1.538E-01	9.434E-03	8.714E-03	1.099E-04	4.272E-05	2.621E-06	2.421E-06
1500 - 1600	3.997E-01	1.555E-01	9.434E-03	8.714E-03	1.110E-04	4.318E-05	2.621E-06	2.421E-06
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	2.065E-01	8.032E-02	4.717E-03	4.357E-03	5.737E-05	2.231E-05	1.310E-06	1.210E-06
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (HGV7_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.700E-02	1.566E-01	2.088E-01	2.959E-01	3.654E-01	4.873E-01	7.135E-01	8.876E-01	1.305E+00	1.706E+00	1.914E+00	2.262E+00	2.489E+00	2.610E+00	2.680E+00	2.750E+00	2.784E+00	2.784E+00
NO_2	4.280E-02	7.710E-02	1.028E-01	1.456E-01	1.799E-01	2.398E-01	3.512E-01	4.368E-01	6.424E-01	8.394E-01	9.422E-01	1.114E+00	1.225E+00	1.285E+00	1.319E+00	1.353E+00	1.371E+00	1.371E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of HGV7**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	1.00	2.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	**Total Starting Emission (g)**			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.402E+00	1.182E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	4.873E-01	2.398E-01	0.000E+00	0.000E+00
1500 - 1600	3.185E+00	1.568E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	2.088E-01	1.028E-01	0.000E+00	0.000E+00
1800 - 1900	3.654E-01	1.799E-01	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (HGV7_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV7s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV7 (Diesel)									HGV7 (Diesel)							
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	9.496E-01	4.664E-01	8.090E-04	8.090E-04	1.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	4.684E-02	2.301E-02	4.045E-04	4.045E-04
1000 - 1100	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	4.684E-02	2.301E-02	4.045E-04	4.045E-04
1500 - 1600	2.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	9.496E-01	4.664E-01	8.090E-04	8.090E-04	3.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	1.405E-01	6.903E-02	1.213E-03	1.213E-03
1600 - 1700	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	4.684E-02	2.301E-02	4.045E-04	4.045E-04
1800 - 1900	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	9.369E-02	4.602E-02	8.090E-04	8.090E-04
1900 - 2000	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	9.964E-01	4.894E-01	1.213E-03	1.213E-03	4.982E-01	2.447E-01	6.067E-04	6.067E-04	2.719E-01	1.339E-01	0.000E+00	0.000E+00	1.631E+00	8.034E-01	0.000E+00	0.000E+00	4.532E-04	2.232E-04	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	4.684E-02	2.301E-02	4.045E-04	4.045E-04	2.342E-02	1.151E-02	2.022E-04	2.022E-04	6.627E-02	3.261E-02	0.000E+00	0.000E+00	3.976E-01	1.957E-01	0.000E+00	0.000E+00	1.104E-04	5.436E-05	0.000E+00	0.000E+00
1500 - 1600	1.090E+00	5.355E-01	2.022E-03	2.022E-03	5.450E-01	2.677E-01	1.011E-03	1.011E-03	3.771E-01	1.857E-01	0.000E+00	0.000E+00	2.262E+00	1.114E+00	0.000E+00	0.000E+00	6.285E-04	3.095E-04	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	4.684E-02	2.301E-02	4.045E-04	4.045E-04	2.342E-02	1.151E-02	2.022E-04	2.022E-04	2.648E-02	1.304E-02	0.000E+00	0.000E+00	1.589E-01	7.825E-02	0.000E+00	0.000E+00	4.414E-05	2.174E-05	0.000E+00	0.000E+00
1800 - 1900	9.369E-02	4.602E-02	8.090E-04	8.090E-04	4.684E-02	2.301E-02	4.045E-04	4.045E-04	4.551E-02	2.241E-02	0.000E+00	0.000E+00	2.730E-01	1.345E-01	0.000E+00	0.000E+00	7.585E-05	3.735E-05	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (HGV7)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	HGV7								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	3.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	6.277E-01	3.083E-01	2.232E-02	2.052E-02
1000 - 1100	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	2.092E-01	1.028E-01	7.440E-03	6.840E-03
1500 - 1600	5.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	1.046E+00	5.139E-01	3.720E-02	3.420E-02
1600 - 1700	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	2.092E-01	1.028E-01	7.440E-03	6.840E-03
1800 - 1900	2.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	4.185E-01	2.056E-01	1.488E-02	1.368E-02
1900 - 2000	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV7s =	2	min

Hour	HGV7								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (HGV7)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.896E+00	9.317E-01	2.353E-02	2.173E-02	5.267E-04	2.588E-04	6.537E-06	6.037E-06
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	3.224E-01	1.584E-01	7.844E-03	7.244E-03	8.954E-05	4.400E-05	2.179E-06	2.012E-06
1500 - 1600	2.513E+00	1.235E+00	3.922E-02	3.622E-02	6.982E-04	3.431E-04	1.090E-05	1.006E-05
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	2.826E-01	1.388E-01	7.844E-03	7.244E-03	7.849E-05	3.856E-05	2.179E-06	2.012E-06
1800 - 1900	5.577E-01	2.740E-01	1.569E-02	1.449E-02	1.549E-04	7.611E-05	4.358E-06	4.025E-06
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (HGV8_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.400E-02	1.511E-01	2.016E-01	2.855E-01	3.527E-01	4.702E-01	6.885E-01	8.565E-01	1.260E+00	1.646E+00	1.847E+00	2.183E+00	2.402E+00	2.519E+00	2.586E+00	2.653E+00	2.687E+00	2.687E+00
NO_2	4.090E-02	7.370E-02	9.820E-02	1.392E-01	1.719E-01	2.292E-01	3.357E-01	4.175E-01	6.140E-01	8.023E-01	9.005E-01	1.064E+00	1.171E+00	1.228E+00	1.261E+00	1.294E+00	1.310E+00	1.310E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of HGV8**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.527E-01	1.719E-01	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.260E+00	6.140E-01	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.016E-01	9.820E-02	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (HGV8_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV8s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV8 (Diesel)									HGV8 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	5.182E-02	2.534E-02	4.454E-04	4.454E-04
0900 - 1000	1.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	3.030E-01	1.482E-01	4.454E-04	4.454E-04	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	5.182E-02	2.534E-02	4.454E-04	4.454E-04
1200 - 1300	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	5.182E-02	2.534E-02	4.454E-04	4.454E-04	2.591E-02	1.267E-02	2.227E-04	2.227E-04	4.668E-02	2.275E-02	0.000E+00	0.000E+00	2.801E-01	1.365E-01	0.000E+00	0.000E+00	7.781E-05	3.791E-05	0.000E+00	0.000E+00
0900 - 1000	3.030E-01	1.482E-01	4.454E-04	4.454E-04	1.515E-01	7.409E-02	2.227E-04	2.227E-04	1.583E-01	7.713E-02	0.000E+00	0.000E+00	9.497E-01	4.628E-01	0.000E+00	0.000E+00	2.638E-04	1.286E-04	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	5.182E-02	2.534E-02	4.454E-04	4.454E-04	2.591E-02	1.267E-02	2.227E-04	2.227E-04	2.510E-02	1.222E-02	0.000E+00	0.000E+00	1.506E-01	7.331E-02	0.000E+00	0.000E+00	4.183E-05	2.036E-05	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (HGV8)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	HGV8								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	5.166E-01	2.526E-01	1.258E-02	1.158E-02
0900 - 1000	1.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	5.166E-01	2.526E-01	1.258E-02	1.158E-02
1000 - 1100	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	5.166E-01	2.526E-01	1.258E-02	1.158E-02
1200 - 1300	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV8s =	2	min

Hour	HGV8								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (HGV8)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	6.151E-01	3.007E-01	1.303E-02	1.203E-02	1.709E-04	8.354E-05	3.618E-06	3.340E-06
0900 - 1000	9.779E-01	4.779E-01	1.303E-02	1.203E-02	2.716E-04	1.328E-04	3.618E-06	3.340E-06
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	5.935E-01	2.902E-01	1.303E-02	1.203E-02	1.649E-04	8.061E-05	3.618E-06	3.340E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (HGV9_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.420E-02	1.516E-01	2.022E-01	2.865E-01	3.539E-01	4.718E-01	6.909E-01	8.594E-01	1.264E+00	1.651E+00	1.854E+00	2.191E+00	2.410E+00	2.528E+00	2.595E+00	2.662E+00	2.696E+00	2.696E+00
NO_2	4.090E-02	7.360E-02	9.810E-02	1.390E-01	1.717E-01	2.290E-01	3.352E-01	4.170E-01	6.133E-01	8.013E-01	8.994E-01	1.063E+00	1.169E+00	1.227E+00	1.259E+00	1.292E+00	1.308E+00	1.308E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	No. of Cold Starts of HGV9																	
Sitting Time (min)	5	10	20	30	40	50	60	120	180	240	300	360	420	480	540	600	660	720
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	NO_2	RSP	FSP
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.516E-01	7.360E-02	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.022E-01	9.810E-02	0.000E+00	0.000E+00
4.718E-01	2.290E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
6.909E-01	3.352E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.865E-01	1.390E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (HGV9_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV9s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV9 (Diesel)									HGV9 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	6.276E-02	3.056E-02	5.410E-04	5.410E-04
0900 - 1000	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	6.276E-02	3.056E-02	5.410E-04	5.410E-04
1100 - 1200	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	6.276E-02	3.056E-02	5.410E-04	5.410E-04
1200 - 1300	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	3.056E-01	1.488E-01	5.410E-04	5.410E-04	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	6.276E-02	3.056E-02	5.410E-04	5.410E-04
2200 - 2300	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	100	m
Average Spread Distance outside Carpark =	600.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	6.276E-02	3.056E-02	5.410E-04	5.410E-04	3.138E-02	1.528E-02	2.705E-04	2.705E-04	1.717E-02	8.331E-03	0.000E+00	0.000E+00	1.030E-01	4.999E-02	0.000E+00	0.000E+00	2.862E-05	1.389E-05	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	6.276E-02	3.056E-02	5.410E-04	5.410E-04	3.138E-02	1.528E-02	2.705E-04	2.705E-04	2.440E-02	1.183E-02	0.000E+00	0.000E+00	1.464E-01	7.099E-02	0.000E+00	0.000E+00	4.067E-05	1.972E-05	0.000E+00	0.000E+00
1100 - 1200	6.276E-02	3.056E-02	5.410E-04	5.410E-04	3.138E-02	1.528E-02	2.705E-04	2.705E-04	6.292E-02	3.053E-02	0.000E+00	0.000E+00	3.775E-01	1.832E-01	0.000E+00	0.000E+00	1.049E-04	5.089E-05	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	3.056E-01	1.488E-01	5.410E-04	5.410E-04	1.528E-01	7.440E-02	2.705E-04	2.705E-04	7.687E-02	3.726E-02	0.000E+00	0.000E+00	4.612E-01	2.235E-01	0.000E+00	0.000E+00	1.281E-04	6.209E-05	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	6.276E-02	3.056E-02	5.410E-04	5.410E-04	3.138E-02	1.528E-02	2.705E-04	2.705E-04	3.645E-02	1.767E-02	0.000E+00	0.000E+00	2.187E-01	1.060E-01	0.000E+00	0.000E+00	6.074E-05	2.946E-05	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (HGV9)

Running Emission

Average Travelling Distance within Carpark =	200	m
Average Travelling Speed =	10	km/h

Hour	HGV9								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	5.210E-01	2.537E-01	1.360E-02	1.250E-02
0900 - 1000	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	5.210E-01	2.537E-01	1.360E-02	1.250E-02
1100 - 1200	1.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	5.210E-01	2.537E-01	1.360E-02	1.250E-02
1200 - 1300	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	5.210E-01	2.537E-01	1.360E-02	1.250E-02
1700 - 1800	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	1.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	5.210E-01	2.537E-01	1.360E-02	1.250E-02
2200 - 2300	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV9s =	2	min

Hour	HGV9								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mai Po Warehouse (米埔物流倉) (HGV9)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	6.009E-01	2.926E-01	1.414E-02	1.304E-02	1.669E-04	8.128E-05	3.928E-06	3.622E-06
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	6.081E-01	2.961E-01	1.414E-02	1.304E-02	1.689E-04	8.225E-05	3.928E-06	3.622E-06
1100 - 1200	6.467E-01	3.148E-01	1.414E-02	1.304E-02	1.796E-04	8.744E-05	3.928E-06	3.622E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	9.034E-01	4.398E-01	1.414E-02	1.304E-02	2.510E-04	1.222E-04	3.928E-06	3.622E-06
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	6.202E-01	3.019E-01	1.414E-02	1.304E-02	1.723E-04	8.387E-05	3.928E-06	3.622E-06
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (PC_Diesel)

Starting Emission

No. of PC(Diesel) to No. of PC (Petrol) Ratio =		0.01

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of PC_Diesel**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.06	0.00	0.03	0.00	0.00	0.04	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.03
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (PC_Diesel)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	PC (Diesel)									PC (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.03	3.236E-02	6.326E-03	1.024E-03	1.024E-03	1.910E-03	3.734E-04	6.047E-05	6.047E-05	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.03	3.236E-02	6.326E-03	1.024E-03	1.024E-03	1.910E-03	3.734E-04	6.047E-05	6.047E-05	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.06	3.236E-02	6.326E-03	1.024E-03	1.024E-03	3.820E-03	7.469E-04	1.209E-04	1.209E-04	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	3.236E-02	6.326E-03	1.024E-03	1.024E-03	1.910E-03	3.734E-04	6.047E-05	6.047E-05
1800 - 1900	0.07	3.236E-02	6.326E-03	1.024E-03	1.024E-03	4.776E-03	9.336E-04	1.512E-04	1.512E-04	0.09	3.236E-02	6.326E-03	1.024E-03	1.024E-03	5.731E-03	1.120E-03	1.814E-04	1.814E-04
1900 - 2000	0.03	3.236E-02	6.326E-03	1.024E-03	1.024E-03	1.910E-03	3.734E-04	6.047E-05	6.047E-05	0.03	3.236E-02	6.326E-03	1.024E-03	1.024E-03	1.910E-03	3.734E-04	6.047E-05	6.047E-05
2000 - 2100	0.06	3.236E-02	6.326E-03	1.024E-03	1.024E-03	3.820E-03	7.469E-04	1.209E-04	1.209E-04	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.910E-03	3.734E-04	6.047E-05	6.047E-05	9.551E-04	1.867E-04	3.024E-05	3.024E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.910E-03	3.734E-04	6.047E-05	6.047E-05	9.551E-04	1.867E-04	3.024E-05	3.024E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	3.820E-03	7.469E-04	1.209E-04	1.209E-04	1.910E-03	3.734E-04	6.047E-05	6.047E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.910E-03	3.734E-04	6.047E-05	6.047E-05	9.551E-04	1.867E-04	3.024E-05	3.024E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.051E-02	2.054E-03	3.326E-04	3.326E-04	5.253E-03	1.027E-03	1.663E-04	1.663E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	3.820E-03	7.469E-04	1.209E-04	1.209E-04	1.910E-03	3.734E-04	6.047E-05	6.047E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	3.820E-03	7.469E-04	1.209E-04	1.209E-04	1.910E-03	3.734E-04	6.047E-05	6.047E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (PC_Petrol)

Starting Emission

No. of PC(Diesel) to No. of PC (Petrol) Ratio =		0.01

	Starting Emission Factor (g/trip)																	
NO	5.620E-02	5.720E-02	5.900E-02	6.080E-02	6.250E-02	6.410E-02	6.570E-02	7.310E-02	8.310E-02	8.250E-02	8.130E-02	7.960E-02	7.750E-02	7.500E-02	7.190E-02	6.850E-02	6.450E-02	6.000E-02
NO_2	3.000E-03	3.000E-03	3.100E-03	3.200E-03	3.300E-03	3.400E-03	3.500E-03	3.900E-03	4.400E-03	4.300E-03	4.300E-03	4.200E-03	4.100E-03	3.900E-03	3.800E-03	3.600E-03	3.400E-03	3.200E-03
RSP	4.000E-04	8.000E-04	1.500E-03	2.300E-03	3.000E-03	3.600E-03	4.300E-03	7.100E-03	7.900E-03	8.700E-03	9.300E-03	9.900E-03	1.040E-02	1.070E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.000E-04	7.000E-04	1.400E-03	2.100E-03	2.700E-03	3.400E-03	3.900E-03	6.500E-03	7.300E-03	8.000E-03	8.700E-03	9.200E-03	9.600E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	**No. of Cold Starts of PC_Petrol**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	3.94	0.00	1.97	0.00	0.00	2.96	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	1.97	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	0.00	1.97
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	**Total Starting Emission (g)**			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.271E-01	6.700E-03	2.227E-02	2.069E-02
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.295E-01	6.897E-03	8.473E-03	7.685E-03
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	3.194E-01	1.675E-02	3.665E-02	3.389E-02
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.107E-01	5.911E-03	7.882E-04	7.882E-04
1800 - 1900	7.343E-01	3.872E-02	4.995E-02	4.581E-02
1900 - 2000	2.638E-01	1.399E-02	1.852E-02	1.695E-02
2000 - 2100	2.532E-01	1.340E-02	4.434E-02	4.118E-02
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (PC_Petrol)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	PC (Petrol)									PC (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.97	1.257E-03	6.547E-05	3.935E-06	3.935E-06	4.954E-03	2.580E-04	1.551E-05	1.551E-05	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.97	1.257E-03	6.547E-05	3.935E-06	3.935E-06	4.954E-03	2.580E-04	1.551E-05	1.551E-05
1200 - 1300	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	3.94	1.257E-03	6.547E-05	3.935E-06	3.935E-06	9.908E-03	5.160E-04	3.102E-05	3.102E-05	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.97	1.257E-03	6.547E-05	3.935E-06	3.935E-06	4.954E-03	2.580E-04	1.551E-05	1.551E-05
1800 - 1900	1.97	1.257E-03	6.547E-05	3.935E-06	3.935E-06	4.954E-03	2.580E-04	1.551E-05	1.551E-05	8.87	1.257E-03	6.547E-05	3.935E-06	3.935E-06	2.229E-02	1.161E-03	6.979E-05	6.979E-05
1900 - 2000	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.94	1.257E-03	6.547E-05	3.935E-06	3.935E-06	9.908E-03	5.160E-04	3.102E-05	3.102E-05
2000 - 2100	3.94	1.257E-03	6.547E-05	3.935E-06	3.935E-06	9.908E-03	5.160E-04	3.102E-05	3.102E-05	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	4.954E-03	2.580E-04	1.551E-05	1.551E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.271E-01	6.700E-03	2.227E-02	2.069E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	4.954E-03	2.580E-04	1.551E-05	1.551E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.295E-01	6.897E-03	8.473E-03	7.685E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	9.908E-03	5.160E-04	3.102E-05	3.102E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.194E-01	1.675E-02	3.665E-02	3.389E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	4.954E-03	2.580E-04	1.551E-05	1.551E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.107E-01	5.911E-03	7.882E-04	7.882E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.725E-02	1.419E-03	8.530E-05	8.530E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.343E-01	3.872E-02	4.995E-02	4.581E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	9.908E-03	5.160E-04	3.102E-05	3.102E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.638E-01	1.399E-02	1.852E-02	1.695E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	9.908E-03	5.160E-04	3.102E-05	3.102E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.532E-01	1.340E-02	4.434E-02	4.118E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (PC)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	PC								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	3.832E-02	2.080E-03	7.680E-03	7.120E-03
0700 - 0800	2.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	3.832E-02	2.080E-03	7.680E-03	7.120E-03
0800 - 0900	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	2.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	3.832E-02	2.080E-03	7.680E-03	7.120E-03
1100 - 1200	2.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	3.832E-02	2.080E-03	7.680E-03	7.120E-03
1200 - 1300	2.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	3.832E-02	2.080E-03	7.680E-03	7.120E-03
1300 - 1400	6.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	1.150E-01	6.240E-03	2.304E-02	2.136E-02
1400 - 1500	2.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	3.832E-02	2.080E-03	7.680E-03	7.120E-03
1500 - 1600	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	3.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	5.748E-02	3.120E-03	1.152E-02	1.068E-02
1700 - 1800	4.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	7.664E-02	4.160E-03	1.536E-02	1.424E-02
1800 - 1900	11.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	2.108E-01	1.144E-02	4.224E-02	3.916E-02
1900 - 2000	4.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	7.664E-02	4.160E-03	1.536E-02	1.424E-02
2000 - 2100	4.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	7.664E-02	4.160E-03	1.536E-02	1.424E-02
2100 - 2200	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of PC(Diesel) to No. of PC (Petrol) Ratio [1] =	0.01	
Idling Time for Non-terminating PCs =	0.5	min

Hour	PC (Diesel)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.03	3.236E-02	6.326E-03	1.024E-03	1.024E-03	4.776E-04	9.336E-05	1.512E-05	1.512E-05
0800 - 0900	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.03	3.236E-02	6.326E-03	1.024E-03	1.024E-03	4.776E-04	9.336E-05	1.512E-05	1.512E-05
1100 - 1200	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.03	3.236E-02	6.326E-03	1.024E-03	1.024E-03	4.776E-04	9.336E-05	1.512E-05	1.512E-05
1300 - 1400	0.03	3.236E-02	6.326E-03	1.024E-03	1.024E-03	4.776E-04	9.336E-05	1.512E-05	1.512E-05
1400 - 1500	0.03	3.236E-02	6.326E-03	1.024E-03	1.024E-03	4.776E-04	9.336E-05	1.512E-05	1.512E-05
1500 - 1600	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.04	3.236E-02	6.326E-03	1.024E-03	1.024E-03	7.163E-04	1.400E-04	2.268E-05	2.268E-05
1700 - 1800	0.03	3.236E-02	6.326E-03	1.024E-03	1.024E-03	4.776E-04	9.336E-05	1.512E-05	1.512E-05
1800 - 1900	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	PC (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	2	1.257E-03	6.547E-05	3.935E-06	3.935E-06	1.238E-03	6.450E-05	3.877E-06	3.877E-06
0800 - 0900	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	2	1.257E-03	6.547E-05	3.935E-06	3.935E-06	1.238E-03	6.450E-05	3.877E-06	3.877E-06
1100 - 1200	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	2	1.257E-03	6.547E-05	3.935E-06	3.935E-06	1.238E-03	6.450E-05	3.877E-06	3.877E-06
1300 - 1400	2	1.257E-03	6.547E-05	3.935E-06	3.935E-06	1.238E-03	6.450E-05	3.877E-06	3.877E-06
1400 - 1500	2	1.257E-03	6.547E-05	3.935E-06	3.935E-06	1.238E-03	6.450E-05	3.877E-06	3.877E-06
1500 - 1600	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	3	1.257E-03	6.547E-05	3.935E-06	3.935E-06	1.858E-03	9.675E-05	5.816E-06	5.816E-06
1700 - 1800	2	1.257E-03	6.547E-05	3.935E-06	3.935E-06	1.238E-03	6.450E-05	3.877E-06	3.877E-06
1800 - 1900	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of PC(Diesel) to No. of PC (Petrol) was extracted from Year 2039 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (PC)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.723E-01	9.411E-03	3.002E-02	2.789E-02	4.786E-05	2.614E-06	8.340E-06	7.746E-06
0700 - 0800	4.004E-02	2.238E-03	7.699E-03	7.139E-03	1.112E-05	6.216E-07	2.139E-06	1.983E-06
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	4.004E-02	2.238E-03	7.699E-03	7.139E-03	1.112E-05	6.216E-07	2.139E-06	1.983E-06
1100 - 1200	1.746E-01	9.608E-03	1.623E-02	1.488E-02	4.851E-05	2.669E-06	4.508E-06	4.134E-06
1200 - 1300	4.004E-02	2.238E-03	7.699E-03	7.139E-03	1.112E-05	6.216E-07	2.139E-06	1.983E-06
1300 - 1400	4.498E-01	2.441E-02	5.986E-02	5.542E-02	1.249E-04	6.781E-06	1.663E-05	1.540E-05
1400 - 1500	4.004E-02	2.238E-03	7.699E-03	7.139E-03	1.112E-05	6.216E-07	2.139E-06	1.983E-06
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	6.005E-02	3.357E-03	1.155E-02	1.071E-02	1.668E-05	9.324E-07	3.208E-06	2.975E-06
1700 - 1800	1.960E-01	1.086E-02	1.624E-02	1.512E-02	5.443E-05	3.017E-06	4.512E-06	4.201E-06
1800 - 1900	9.828E-01	5.363E-02	9.261E-02	8.539E-02	2.730E-04	1.490E-05	2.572E-05	2.372E-05
1900 - 2000	3.542E-01	1.941E-02	3.403E-02	3.134E-02	9.839E-05	5.393E-06	9.454E-06	8.705E-06
2000 - 2100	3.436E-01	1.882E-02	5.985E-02	5.558E-02	9.544E-05	5.228E-06	1.662E-05	1.544E-05
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (Taxi_LPG)

Starting Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio =		457876.06

	Starting Emission Factor (g/trip)																	
NO	1.014E+00	1.031E+00	1.064E+00	1.096E+00	1.126E+00	1.156E+00	1.185E+00	1.318E+00	1.498E+00	1.485E+00	1.464E+00	1.435E+00	1.397E+00	1.351E+00	1.296E+00	1.233E+00	1.162E+00	1.081E+00
NO_2	2.850E-02	2.890E-02	2.990E-02	3.070E-02	3.160E-02	3.240E-02	3.320E-02	3.700E-02	4.200E-02	4.170E-02	4.110E-02	4.030E-02	3.920E-02	3.790E-02	3.640E-02	3.460E-02	3.260E-02	3.040E-02
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of Taxi_LPG**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (Taxi_LPG)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (LPG)									Taxi (LPG)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (Taxi_Petrol)

Starting Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio =		457876.06

	Starting Emission Factor (g/trip)																	
NO	7.790E-02	7.910E-02	8.170E-02	8.420E-02	8.640E-02	8.870E-02	9.090E-02	1.013E-01	1.149E-01	1.140E-01	1.125E-01	1.102E-01	1.073E-01	1.037E-01	9.960E-02	9.470E-02	8.920E-02	8.300E-02
NO_2	4.100E-03	4.200E-03	4.300E-03	4.400E-03	4.600E-03	4.700E-03	4.800E-03	5.300E-03	6.100E-03	6.000E-03	5.900E-03	5.800E-03	5.600E-03	5.500E-03	5.200E-03	5.000E-03	4.700E-03	4.400E-03
RSP	4.000E-04	8.000E-04	1.500E-03	2.300E-03	3.000E-03	3.600E-03	4.200E-03	7.000E-03	7.900E-03	8.700E-03	9.300E-03	9.900E-03	1.040E-02	1.070E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.000E-04	7.000E-04	1.400E-03	2.100E-03	2.700E-03	3.400E-03	3.900E-03	6.500E-03	7.300E-03	8.000E-03	8.700E-03	9.200E-03	9.600E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	**No. of Cold Starts of Taxi_Petrol**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Ratio
Height

Avg Height

Rel Height

Sz

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (Taxi_Petrol)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (Petrol)									Taxi (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (Taxi)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	Taxi								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	7.657E-01	2.152E-02	0.000E+00	0.000E+00
1900 - 2000	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio [1] =	457876.06	
Idling Time for Non-terminating Taxi =	0.5	min

Hour	Taxi (LPG)									Taxi (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	3.599E-09	1.867E-10	4.732E-10	4.732E-10
1900 - 2000	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (Taxi)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	9.781E-01	2.749E-02	4.732E-10	4.732E-10	2.717E-04	7.636E-06	1.314E-13	1.314E-13
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (LGV3_Diesel)

Starting Emission

No. of LGV3(Diesel) to No. of LGV3 (Petrol) Ratio =		29.76

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of LGV3_Diesel**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	**Total Starting Emission (g)**			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (LGV3_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV3 (Diesel)									LGV3 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.93	2.638E-02	1.602E-03	4.333E-04	4.333E-04	1.021E-01	6.201E-03	1.677E-03	1.677E-03
1500 - 1600	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.93	2.638E-02	1.602E-03	4.333E-04	4.333E-04	1.021E-01	6.201E-03	1.677E-03	1.677E-03
1800 - 1900	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.021E-01	6.201E-03	1.677E-03	1.677E-03	5.104E-02	3.100E-03	8.385E-04	8.385E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.021E-01	6.201E-03	1.677E-03	1.677E-03	5.104E-02	3.100E-03	8.385E-04	8.385E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (LGV3_Petrol)

Starting Emission

No. of LGV3(Diesel) to No. of LGV3 (Petrol) Ratio =		29.76

	Starting Emission Factor (g/trip)																	
NO	3.580E-02	3.720E-02	3.990E-02	4.230E-02	4.430E-02	4.600E-02	4.730E-02	5.230E-02	5.890E-02	5.840E-02	5.770E-02	5.660E-02	5.520E-02	5.360E-02	5.160E-02	4.930E-02	4.670E-02	4.390E-02
NO_2	1.900E-03	2.000E-03	2.100E-03	2.200E-03	2.300E-03	2.400E-03	2.500E-03	2.700E-03	3.100E-03	3.100E-03	3.000E-03	3.000E-03	2.900E-03	2.800E-03	2.700E-03	2.600E-03	2.500E-03	2.300E-03
RSP	0.000E+00	0.000E+00	1.000E-04	1.000E-04	1.000E-04	2.000E-04	2.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	4.000E-04	4.000E-04	4.000E-04	4.000E-04	4.000E-04
FSP	0.000E+00	0.000E+00	1.000E-04	1.000E-04	1.000E-04	1.000E-04	2.000E-04	2.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	4.000E-04	4.000E-04

Hour	**No. of Cold Starts of LGV3_Petrol**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.419E-03	1.300E-04	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.328E-03	1.235E-04	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (LGV3_Petrol)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	LGV3 (Petrol)									LGV3 (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.07	1.522E-03	7.933E-05	5.835E-07	5.835E-07	1.979E-04	1.032E-05	7.587E-08	7.587E-08
1500 - 1600	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.07	1.522E-03	7.933E-05	5.835E-07	5.835E-07	1.979E-04	1.032E-05	7.587E-08	7.587E-08
1800 - 1900	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.979E-04	1.032E-05	7.587E-08	7.587E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.419E-03	1.300E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.979E-04	1.032E-05	7.587E-08	7.587E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.328E-03	1.235E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (LGV3)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	LGV3								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	1.305E+00	7.920E-02	1.160E-02	1.064E-02
0700 - 0800	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	3.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	1.957E+00	1.188E-01	1.740E-02	1.596E-02
1000 - 1100	2.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	1.305E+00	7.920E-02	1.160E-02	1.064E-02
1100 - 1200	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	2.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	1.305E+00	7.920E-02	1.160E-02	1.064E-02
1500 - 1600	2.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	1.305E+00	7.920E-02	1.160E-02	1.064E-02
1600 - 1700	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	2.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	1.305E+00	7.920E-02	1.160E-02	1.064E-02
1800 - 1900	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	1.305E+00	7.920E-02	1.160E-02	1.064E-02
2100 - 2200	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of LGV3(Diesel) to No. of LGV3 (Petrol) Ratio [1] =	29.76	
Idling Time for Non-terminating LGV3s =	0.5	min

Hour	LGV3 (Diesel)									LGV3 (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.93	2.638E-02	1.602E-03	4.333E-04	4.333E-04	2.552E-02	1.550E-03	4.192E-04	4.192E-04	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	4.948E-05	2.579E-06	1.897E-08	1.897E-08
0700 - 0800	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.90	2.638E-02	1.602E-03	4.333E-04	4.333E-04	3.828E-02	2.325E-03	6.289E-04	6.289E-04	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	7.422E-05	3.869E-06	2.845E-08	2.845E-08
1000 - 1100	1.93	2.638E-02	1.602E-03	4.333E-04	4.333E-04	2.552E-02	1.550E-03	4.192E-04	4.192E-04	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	4.948E-05	2.579E-06	1.897E-08	1.897E-08
1100 - 1200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	1.93	2.638E-02	1.602E-03	4.333E-04	4.333E-04	2.552E-02	1.550E-03	4.192E-04	4.192E-04	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	4.948E-05	2.579E-06	1.897E-08	1.897E-08
1600 - 1700	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.93	2.638E-02	1.602E-03	4.333E-04	4.333E-04	2.552E-02	1.550E-03	4.192E-04	4.192E-04	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	4.948E-05	2.579E-06	1.897E-08	1.897E-08
2100 - 2200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of LGV3(Diesel) to LGV3 (Petrol) was extracted from Year 2039 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (LGV3)

Total Hourly Emission

	Emission Within Carpark							
Hour	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.330E+00	8.075E-02	1.202E-02	1.106E-02	3.695E-04	2.243E-05	3.339E-06	3.072E-06
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.995E+00	1.211E-01	1.803E-02	1.659E-02	5.542E-04	3.365E-05	5.008E-06	4.608E-06
1000 - 1100	1.330E+00	8.075E-02	1.202E-02	1.106E-02	3.695E-04	2.243E-05	3.339E-06	3.072E-06
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.409E+00	8.554E-02	1.328E-02	1.232E-02	3.915E-04	2.376E-05	3.688E-06	3.421E-06
1500 - 1600	1.330E+00	8.075E-02	1.202E-02	1.106E-02	3.695E-04	2.243E-05	3.339E-06	3.072E-06
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.409E+00	8.553E-02	1.328E-02	1.232E-02	3.914E-04	2.376E-05	3.688E-06	3.421E-06
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.330E+00	8.075E-02	1.202E-02	1.106E-02	3.695E-04	2.243E-05	3.339E-06	3.072E-06
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (LGV6_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	4.920E-02	8.860E-02	1.182E-01	1.675E-01	2.069E-01	2.758E-01	4.039E-01	5.024E-01	7.388E-01	9.654E-01	1.084E+00	1.281E+00	1.409E+00	1.478E+00	1.517E+00	1.556E+00	1.576E+00	1.576E+00
NO_2	1.920E-02	3.450E-02	4.600E-02	6.510E-02	8.040E-02	1.073E-01	1.571E-01	1.954E-01	2.873E-01	3.754E-01	4.214E-01	4.980E-01	5.478E-01	5.746E-01	5.900E-01	6.053E-01	6.129E-01	6.129E-01
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of LGV6**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	2.955E+00	1.149E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.772E-01	6.900E-02	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.078E-01	3.142E-01	0.000E+00	0.000E+00
1100 - 1200	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.476E-01	5.760E-02	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.078E-01	3.142E-01	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.739E+00	1.065E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.364E-01	9.200E-02	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	3.113E+00	1.211E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (LGV6_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV6s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV6 (Diesel)									LGV6 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	2.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	1.734E-01	6.745E-02	7.942E-04	7.942E-04	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	9.941E-02	3.866E-02	7.942E-04	7.942E-04
1000 - 1100	2.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	1.734E-01	6.745E-02	7.942E-04	7.942E-04	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	1.491E-01	5.799E-02	1.191E-03	1.191E-03
1200 - 1300	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	1.734E-01	6.745E-02	7.942E-04	7.942E-04	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	4.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	3.469E-01	1.349E-01	1.588E-03	1.588E-03	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	9.941E-02	3.866E-02	7.942E-04	7.942E-04
1800 - 1900	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	1.734E-01	6.745E-02	7.942E-04	7.942E-04	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.734E-01	6.745E-02	7.942E-04	7.942E-04	8.671E-02	3.372E-02	3.971E-04	3.971E-04	8.196E-01	3.187E-01	0.000E+00	0.000E+00	2.049E+00	7.968E-01	0.000E+00	0.000E+00	5.692E-04	2.213E-04	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	9.941E-02	3.866E-02	7.942E-04	7.942E-04	4.971E-02	1.933E-02	3.971E-04	3.971E-04	3.643E-02	1.419E-02	0.000E+00	0.000E+00	9.107E-02	3.548E-02	0.000E+00	0.000E+00	2.530E-05	9.855E-06	0.000E+00	0.000E+00
1000 - 1100	1.734E-01	6.745E-02	7.942E-04	7.942E-04	8.671E-02	3.372E-02	3.971E-04	3.971E-04	2.060E-01	8.014E-02	0.000E+00	0.000E+00	5.151E-01	2.003E-01	0.000E+00	0.000E+00	1.431E-04	5.565E-05	0.000E+00	0.000E+00
1100 - 1200	1.491E-01	5.799E-02	1.191E-03	1.191E-03	7.456E-02	2.900E-02	5.957E-04	5.957E-04	2.087E-02	8.173E-03	0.000E+00	0.000E+00	5.217E-02	2.043E-02	0.000E+00	0.000E+00	1.449E-05	5.675E-06	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.734E-01	6.745E-02	7.942E-04	7.942E-04	8.671E-02	3.372E-02	3.971E-04	3.971E-04	2.060E-01	8.014E-02	0.000E+00	0.000E+00	5.151E-01	2.003E-01	0.000E+00	0.000E+00	1.431E-04	5.565E-05	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	3.469E-01	1.349E-01	1.588E-03	1.588E-03	1.734E-01	6.745E-02	7.942E-04	7.942E-04	7.329E-01	2.850E-01	0.000E+00	0.000E+00	1.832E+00	7.125E-01	0.000E+00	0.000E+00	5.090E-04	1.979E-04	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	9.941E-02	3.866E-02	7.942E-04	7.942E-04	4.971E-02	1.933E-02	3.971E-04	3.971E-04	5.334E-02	2.076E-02	0.000E+00	0.000E+00	1.334E-01	5.191E-02	0.000E+00	0.000E+00	3.704E-05	1.442E-05	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.734E-01	6.745E-02	7.942E-04	7.942E-04	8.671E-02	3.372E-02	3.971E-04	3.971E-04	8.646E-01	3.363E-01	0.000E+00	0.000E+00	2.161E+00	8.406E-01	0.000E+00	0.000E+00	6.004E-04	2.335E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (LGV6)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	Frequency	LGV6							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	2.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	5.739E-01	2.232E-01	1.728E-02	1.584E-02
0800 - 0900	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	5.739E-01	2.232E-01	1.728E-02	1.584E-02
1000 - 1100	2.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	5.739E-01	2.232E-01	1.728E-02	1.584E-02
1100 - 1200	5.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	1.435E+00	5.580E-01	4.320E-02	3.960E-02
1200 - 1300	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	4.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	1.148E+00	4.464E-01	3.456E-02	3.168E-02
1400 - 1500	2.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	5.739E-01	2.232E-01	1.728E-02	1.584E-02
1500 - 1600	4.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	1.148E+00	4.464E-01	3.456E-02	3.168E-02
1600 - 1700	2.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	5.739E-01	2.232E-01	1.728E-02	1.584E-02
1700 - 1800	2.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	5.739E-01	2.232E-01	1.728E-02	1.584E-02
1800 - 1900	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	5.739E-01	2.232E-01	1.728E-02	1.584E-02
2100 - 2200	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating LGV6s =	2	min

Hour	Frequency	LGV6							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	2.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	9.941E-02	3.866E-02	7.942E-04	7.942E-04
1200 - 1300	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	9.941E-02	3.866E-02	7.942E-04	7.942E-04
1400 - 1500	2.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	9.941E-02	3.866E-02	7.942E-04	7.942E-04
1500 - 1600	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	9.941E-02	3.866E-02	7.942E-04	7.942E-04
1700 - 1800	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (LGV6)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.567E+00	6.094E-01	1.807E-02	1.663E-02	4.353E-04	1.693E-04	5.021E-06	4.621E-06
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	7.098E-01	2.761E-01	1.807E-02	1.663E-02	1.972E-04	7.668E-05	5.021E-06	4.621E-06
1000 - 1100	9.534E-01	3.708E-01	1.807E-02	1.663E-02	2.648E-04	1.030E-04	5.021E-06	4.621E-06
1100 - 1200	1.704E+00	6.628E-01	4.519E-02	4.159E-02	4.734E-04	1.841E-04	1.255E-05	1.155E-05
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.627E+00	6.326E-01	3.615E-02	3.327E-02	4.519E-04	1.757E-04	1.004E-05	9.241E-06
1400 - 1500	6.733E-01	2.619E-01	1.807E-02	1.663E-02	1.870E-04	7.274E-05	5.021E-06	4.621E-06
1500 - 1600	2.228E+00	8.663E-01	3.615E-02	3.327E-02	6.188E-04	2.406E-04	1.004E-05	9.241E-06
1600 - 1700	6.733E-01	2.619E-01	1.807E-02	1.663E-02	1.870E-04	7.274E-05	5.021E-06	4.621E-06
1700 - 1800	7.267E-01	2.826E-01	1.807E-02	1.663E-02	2.019E-04	7.851E-05	5.021E-06	4.621E-06
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.612E+00	6.269E-01	1.807E-02	1.663E-02	4.478E-04	1.741E-04	5.021E-06	4.621E-06
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (HGV7_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.700E-02	1.566E-01	2.088E-01	2.959E-01	3.654E-01	4.873E-01	7.135E-01	8.876E-01	1.305E+00	1.706E+00	1.914E+00	2.262E+00	2.489E+00	2.610E+00	2.680E+00	2.750E+00	2.784E+00	2.784E+00
NO_2	4.280E-02	7.710E-02	1.028E-01	1.456E-01	1.799E-01	2.398E-01	3.512E-01	4.368E-01	6.424E-01	8.394E-01	9.422E-01	1.114E+00	1.225E+00	1.285E+00	1.319E+00	1.353E+00	1.371E+00	1.371E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of HGV7**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	5.569E+00	2.741E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	1.392E+01	6.853E+00	0.000E+00	0.000E+00
0900 - 1000	2.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	2.00	1.187E+01	5.842E+00	0.000E+00	0.000E+00
1000 - 1100	2.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.062E+00	5.224E-01	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.288E+00	6.338E-01	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	6.874E+00	3.383E+00	0.000E+00	0.000E+00
1500 - 1600	3.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.688E+00	8.308E-01	0.000E+00	0.000E+00
1600 - 1700	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.658E-01	3.768E-01	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.323E+00	6.510E-01	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:
Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (HGV7_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV7s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV7 (Diesel)									HGV7 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	2.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	9.496E-01	4.664E-01	8.090E-04	8.090E-04	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	5.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	2.374E+00	1.166E+00	2.022E-03	2.022E-03	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	4.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	1.899E+00	9.329E-01	1.618E-03	1.618E-03	5.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	2.342E-01	1.151E-01	2.022E-03	2.022E-03
1000 - 1100	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	2.342E-01	1.151E-01	2.022E-03	2.022E-03
1100 - 1200	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	1.874E-01	9.204E-02	1.618E-03	1.618E-03
1400 - 1500	2.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	9.496E-01	4.664E-01	8.090E-04	8.090E-04	5.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	2.342E-01	1.151E-01	2.022E-03	2.022E-03
1500 - 1600	2.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	9.496E-01	4.664E-01	8.090E-04	8.090E-04	3.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	1.405E-01	6.903E-02	1.213E-03	1.213E-03
1600 - 1700	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	1.874E-01	9.204E-02	1.618E-03	1.618E-03
1700 - 1800	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	1.874E-01	9.204E-02	1.618E-03	1.618E-03
1900 - 2000	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	9.496E-01	4.664E-01	8.090E-04	8.090E-04	4.748E-01	2.332E-01	4.045E-04	4.045E-04	1.455E+00	7.165E-01	0.000E+00	0.000E+00	3.639E+00	1.791E+00	0.000E+00	0.000E+00	1.011E-03	4.976E-04	0.000E+00	0.000E+00
0800 - 0900	2.374E+00	1.166E+00	2.022E-03	2.022E-03	1.187E+00	5.830E-01	1.011E-03	1.011E-03	3.639E+00	1.791E+00	0.000E+00	0.000E+00	9.096E+00	4.478E+00	0.000E+00	0.000E+00	2.527E-03	1.244E-03	0.000E+00	0.000E+00
0900 - 1000	2.133E+00	1.048E+00	3.640E-03	3.640E-03	1.067E+00	5.240E-01	1.820E-03	1.820E-03	3.086E+00	1.519E+00	0.000E+00	0.000E+00	7.716E+00	3.798E+00	0.000E+00	0.000E+00	2.143E-03	1.055E-03	0.000E+00	0.000E+00
1000 - 1100	2.342E-01	1.151E-01	2.022E-03	2.022E-03	1.171E-01	5.753E-02	1.011E-03	1.011E-03	2.699E-01	1.328E-01	0.000E+00	0.000E+00	6.747E-01	3.321E-01	0.000E+00	0.000E+00	1.874E-04	9.224E-05	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.874E-01	9.204E-02	1.618E-03	1.618E-03	9.369E-02	4.602E-02	8.090E-04	8.090E-04	3.412E-01	1.679E-01	0.000E+00	0.000E+00	8.529E-01	4.198E-01	0.000E+00	0.000E+00	2.369E-04	1.166E-04	0.000E+00	0.000E+00
1400 - 1500	1.184E+00	5.815E-01	2.831E-03	2.831E-03	5.919E-01	2.907E-01	1.416E-03	1.416E-03	1.795E+00	8.836E-01	0.000E+00	0.000E+00	4.487E+00	2.209E+00	0.000E+00	0.000E+00	1.246E-03	6.136E-04	0.000E+00	0.000E+00
1500 - 1600	1.090E+00	5.355E-01	2.022E-03	2.022E-03	5.450E-01	2.677E-01	1.011E-03	1.011E-03	3.266E-01	1.609E-01	0.000E+00	0.000E+00	8.164E-01	4.022E-01	0.000E+00	0.000E+00	2.268E-04	1.117E-04	0.000E+00	0.000E+00
1600 - 1700	1.874E-01	9.204E-02	1.618E-03	1.618E-03	9.369E-02	4.602E-02	8.090E-04	8.090E-04	1.920E-01	9.451E-02	0.000E+00	0.000E+00	4.801E-01	2.363E-01	0.000E+00	0.000E+00	1.334E-04	6.563E-05	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.874E-01	9.204E-02	1.618E-03	1.618E-03	9.369E-02	4.602E-02	8.090E-04	8.090E-04	3.511E-01	1.729E-01	0.000E+00	0.000E+00	8.778E-01	4.321E-01	0.000E+00	0.000E+00	2.438E-04	1.200E-04	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (HGV7)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV7							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	2.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	8.370E-01	4.111E-01	2.976E-02	2.736E-02
0800 - 0900	5.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	2.092E+00	1.028E+00	7.440E-02	6.840E-02
0900 - 1000	9.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	3.766E+00	1.850E+00	1.339E-01	1.231E-01
1000 - 1100	5.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	2.092E+00	1.028E+00	7.440E-02	6.840E-02
1100 - 1200	2.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	8.370E-01	4.111E-01	2.976E-02	2.736E-02
1200 - 1300	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	4.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	1.674E+00	8.222E-01	5.952E-02	5.472E-02
1400 - 1500	9.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	3.766E+00	1.850E+00	1.339E-01	1.231E-01
1500 - 1600	5.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	2.092E+00	1.028E+00	7.440E-02	6.840E-02
1600 - 1700	6.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	2.511E+00	1.233E+00	8.928E-02	8.208E-02
1700 - 1800	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	6.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	2.511E+00	1.233E+00	8.928E-02	8.208E-02
1900 - 2000	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV7s =	2	min

Hour	Frequency	HGV7							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	2.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	9.369E-02	4.602E-02	8.090E-04	8.090E-04
1200 - 1300	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	2.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	9.369E-02	4.602E-02	8.090E-04	8.090E-04
1500 - 1600	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	9.369E-02	4.602E-02	8.090E-04	8.090E-04
1700 - 1800	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	9.369E-02	4.602E-02	8.090E-04	8.090E-04
1900 - 2000	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (HGV7)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	3.242E+00	1.594E+00	3.057E-02	2.817E-02	9.005E-04	4.428E-04	8.491E-06	7.825E-06
0800 - 0900	8.105E+00	3.985E+00	7.642E-02	7.042E-02	2.251E-03	1.107E-03	2.123E-05	1.956E-05
0900 - 1000	8.986E+00	4.417E+00	1.376E-01	1.268E-01	2.496E-03	1.227E-03	3.821E-05	3.521E-05
1000 - 1100	2.597E+00	1.276E+00	7.642E-02	7.042E-02	7.213E-04	3.544E-04	2.123E-05	1.956E-05
1100 - 1200	9.306E-01	4.571E-01	3.057E-02	2.817E-02	2.585E-04	1.270E-04	8.491E-06	7.825E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.202E+00	1.082E+00	6.114E-02	5.634E-02	6.118E-04	3.006E-04	1.698E-05	1.565E-05
1400 - 1500	6.839E+00	3.361E+00	1.376E-01	1.268E-01	1.900E-03	9.337E-04	3.821E-05	3.521E-05
1500 - 1600	3.509E+00	1.724E+00	7.642E-02	7.042E-02	9.747E-04	4.789E-04	2.123E-05	1.956E-05
1600 - 1700	2.984E+00	1.466E+00	9.171E-02	8.451E-02	8.289E-04	4.072E-04	2.547E-05	2.347E-05
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	3.143E+00	1.544E+00	9.171E-02	8.451E-02	8.731E-04	4.290E-04	2.547E-05	2.347E-05
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (HGV8_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.400E-02	1.511E-01	2.016E-01	2.855E-01	3.527E-01	4.702E-01	6.885E-01	8.565E-01	1.260E+00	1.646E+00	1.847E+00	2.183E+00	2.402E+00	2.519E+00	2.586E+00	2.653E+00	2.687E+00	2.687E+00
NO_2	4.090E-02	7.370E-02	9.820E-02	1.392E-01	1.719E-01	2.292E-01	3.357E-01	4.175E-01	6.140E-01	8.023E-01	9.005E-01	1.064E+00	1.171E+00	1.228E+00	1.261E+00	1.294E+00	1.310E+00	1.310E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of HGV8**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	5.374E+00	2.620E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.680E-01	8.180E-02	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.404E-01	4.584E-01	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.377E+00	6.714E-01	0.000E+00	0.000E+00
1200 - 1300	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.680E-01	8.180E-02	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	2.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.846E+00	1.875E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.054E-01	3.438E-01	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.545E+00	7.532E-01	0.000E+00	0.000E+00
1700 - 1800	0.00	2.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.243E+00	6.058E-01	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	2.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.973E+00	1.449E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.377E+00	6.714E-01	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (HGV8_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV8s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV8 (Diesel)									HGV8 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	6.060E-01	2.963E-01	8.908E-04	8.908E-04	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	1.036E-01	5.069E-02	8.908E-04	8.908E-04
0900 - 1000	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	1.036E-01	5.069E-02	8.908E-04	8.908E-04
1100 - 1200	2.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	6.060E-01	2.963E-01	8.908E-04	8.908E-04	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	1.036E-01	5.069E-02	8.908E-04	8.908E-04
1300 - 1400	5.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	1.515E+00	7.409E-01	2.227E-03	2.227E-03	2.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	1.036E-01	5.069E-02	8.908E-04	8.908E-04
1400 - 1500	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	2.073E-01	1.014E-01	1.782E-03	1.782E-03
1500 - 1600	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	6.060E-01	2.963E-01	8.908E-04	8.908E-04	2.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	1.036E-01	5.069E-02	8.908E-04	8.908E-04
1700 - 1800	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	2.073E-01	1.014E-01	1.782E-03	1.782E-03
1800 - 1900	3.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	9.090E-01	4.445E-01	1.336E-03	1.336E-03	2.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	1.036E-01	5.069E-02	8.908E-04	8.908E-04
1900 - 2000	2.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	6.060E-01	2.963E-01	8.908E-04	8.908E-04	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	6.060E-01	2.963E-01	8.908E-04	8.908E-04	3.030E-01	1.482E-01	4.454E-04	4.454E-04	1.449E+00	7.062E-01	0.000E+00	0.000E+00	3.622E+00	1.765E+00	0.000E+00	0.000E+00	1.006E-03	4.904E-04	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.036E-01	5.069E-02	8.908E-04	8.908E-04	5.182E-02	2.534E-02	4.454E-04	4.454E-04	3.319E-02	1.613E-02	0.000E+00	0.000E+00	8.298E-02	4.033E-02	0.000E+00	0.000E+00	2.305E-05	1.120E-05	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.036E-01	5.069E-02	8.908E-04	8.908E-04	5.182E-02	2.534E-02	4.454E-04	4.454E-04	2.539E-01	1.237E-01	0.000E+00	0.000E+00	6.347E-01	3.093E-01	0.000E+00	0.000E+00	1.763E-04	8.592E-05	0.000E+00	0.000E+00
1100 - 1200	6.060E-01	2.963E-01	8.908E-04	8.908E-04	3.030E-01	1.482E-01	4.454E-04	4.454E-04	3.069E-01	1.495E-01	0.000E+00	0.000E+00	7.672E-01	3.737E-01	0.000E+00	0.000E+00	2.131E-04	1.038E-04	0.000E+00	0.000E+00
1200 - 1300	1.036E-01	5.069E-02	8.908E-04	8.908E-04	5.182E-02	2.534E-02	4.454E-04	4.454E-04	3.319E-02	1.613E-02	0.000E+00	0.000E+00	8.298E-02	4.033E-02	0.000E+00	0.000E+00	2.305E-05	1.120E-05	0.000E+00	0.000E+00
1300 - 1400	1.619E+00	7.916E-01	3.118E-03	3.118E-03	8.093E-01	3.958E-01	1.559E-03	1.559E-03	8.675E-01	4.226E-01	0.000E+00	0.000E+00	2.169E+00	1.057E+00	0.000E+00	0.000E+00	6.025E-04	2.935E-04	0.000E+00	0.000E+00
1400 - 1500	2.073E-01	1.014E-01	1.782E-03	1.782E-03	1.036E-01	5.069E-02	8.908E-04	8.908E-04	1.719E-01	8.375E-02	0.000E+00	0.000E+00	4.298E-01	2.094E-01	0.000E+00	0.000E+00	1.194E-04	5.816E-05	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	7.096E-01	3.470E-01	1.782E-03	1.782E-03	3.548E-01	1.735E-01	8.908E-04	8.908E-04	3.401E-01	1.656E-01	0.000E+00	0.000E+00	8.501E-01	4.141E-01	0.000E+00	0.000E+00	2.361E-04	1.150E-04	0.000E+00	0.000E+00
1700 - 1800	2.073E-01	1.014E-01	1.782E-03	1.782E-03	1.036E-01	5.069E-02	8.908E-04	8.908E-04	3.254E-01	1.586E-01	0.000E+00	0.000E+00	8.135E-01	3.965E-01	0.000E+00	0.000E+00	2.260E-04	1.101E-04	0.000E+00	0.000E+00
1800 - 1900	1.013E+00	4.952E-01	2.227E-03	2.227E-03	5.063E-01	2.476E-01	1.113E-03	1.113E-03	7.047E-01	3.432E-01	0.000E+00	0.000E+00	1.762E+00	8.581E-01	0.000E+00	0.000E+00	4.894E-04	2.384E-04	0.000E+00	0.000E+00
1900 - 2000	6.060E-01	2.963E-01	8.908E-04	8.908E-04	3.030E-01	1.482E-01	4.454E-04	4.454E-04	3.069E-01	1.495E-01	0.000E+00	0.000E+00	7.672E-01	3.737E-01	0.000E+00	0.000E+00	2.131E-04	1.038E-04	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (HGV8)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV8							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	2.066E+00	1.011E+00	5.032E-02	4.632E-02
0700 - 0800	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	2.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	2.066E+00	1.011E+00	5.032E-02	4.632E-02
0900 - 1000	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	2.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	2.066E+00	1.011E+00	5.032E-02	4.632E-02
1100 - 1200	2.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	2.066E+00	1.011E+00	5.032E-02	4.632E-02
1200 - 1300	5.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	5.166E+00	2.526E+00	1.258E-01	1.158E-01
1300 - 1400	7.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	7.232E+00	3.537E+00	1.761E-01	1.621E-01
1400 - 1500	4.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	4.133E+00	2.021E+00	1.006E-01	9.264E-02
1500 - 1600	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	4.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	4.133E+00	2.021E+00	1.006E-01	9.264E-02
1700 - 1800	4.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	4.133E+00	2.021E+00	1.006E-01	9.264E-02
1800 - 1900	7.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	7.232E+00	3.537E+00	1.761E-01	1.621E-01
1900 - 2000	2.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	2.066E+00	1.011E+00	5.032E-02	4.632E-02
2000 - 2100	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV8s =	2	min

Hour	Frequency	HGV8							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	3.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	1.555E-01	7.603E-02	1.336E-03	1.336E-03
1300 - 1400	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	2.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	1.036E-01	5.069E-02	8.908E-04	8.908E-04
1900 - 2000	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (HGV8)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	4.121E+00	2.013E+00	5.121E-02	4.721E-02	1.145E-03	5.592E-04	1.423E-05	1.311E-05
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	2.203E+00	1.077E+00	5.121E-02	4.721E-02	6.120E-04	2.993E-04	1.423E-05	1.311E-05
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	2.424E+00	1.185E+00	5.121E-02	4.721E-02	6.733E-04	3.292E-04	1.423E-05	1.311E-05
1100 - 1200	2.979E+00	1.456E+00	5.121E-02	4.721E-02	8.276E-04	4.046E-04	1.423E-05	1.311E-05
1200 - 1300	5.458E+00	2.669E+00	1.280E-01	1.180E-01	1.516E-03	7.415E-04	3.556E-05	3.279E-05
1300 - 1400	9.719E+00	4.751E+00	1.792E-01	1.652E-01	2.700E-03	1.320E-03	4.979E-05	4.590E-05
1400 - 1500	4.512E+00	2.206E+00	1.024E-01	9.442E-02	1.253E-03	6.128E-04	2.845E-05	2.623E-05
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	5.182E+00	2.534E+00	1.024E-01	9.442E-02	1.440E-03	7.038E-04	2.845E-05	2.623E-05
1700 - 1800	4.666E+00	2.281E+00	1.024E-01	9.442E-02	1.296E-03	6.336E-04	2.845E-05	2.623E-05
1800 - 1900	9.053E+00	4.426E+00	1.792E-01	1.652E-01	2.515E-03	1.229E-03	4.979E-05	4.590E-05
1900 - 2000	2.979E+00	1.456E+00	5.121E-02	4.721E-02	8.276E-04	4.046E-04	1.423E-05	1.311E-05
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (HGV9_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.420E-02	1.516E-01	2.022E-01	2.865E-01	3.539E-01	4.718E-01	6.909E-01	8.594E-01	1.264E+00	1.651E+00	1.854E+00	2.191E+00	2.410E+00	2.528E+00	2.595E+00	2.662E+00	2.696E+00	2.696E+00
NO_2	4.090E-02	7.360E-02	9.810E-02	1.390E-01	1.717E-01	2.290E-01	3.352E-01	4.170E-01	6.133E-01	8.013E-01	8.994E-01	1.063E+00	1.169E+00	1.227E+00	1.259E+00	1.292E+00	1.308E+00	1.308E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of HGV9**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	5.392E+00	2.617E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	6.100E+00	2.960E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	5.392E+00	2.617E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.281E+00	6.214E-01	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.303E+00	1.603E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.685E+00	2.273E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.584E+00	7.686E-01	0.000E+00	0.000E+00
1600 - 1700	2.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.728E-01	2.780E-01	0.000E+00	0.000E+00
1700 - 1800	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.044E+00	1.962E+00	0.000E+00	0.000E+00
1800 - 1900	3.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.604E-01	4.661E-01	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.303E+00	1.603E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (HGV9_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV9s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV9 (Diesel)									HGV9 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	6.112E-01	2.976E-01	1.082E-03	1.082E-03	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	2.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	6.112E-01	2.976E-01	1.082E-03	1.082E-03	4.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	2.510E-01	1.222E-01	2.164E-03	2.164E-03
0900 - 1000	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	2.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	6.112E-01	2.976E-01	1.082E-03	1.082E-03	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	2.510E-01	1.222E-01	2.164E-03	2.164E-03
1300 - 1400	2.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	6.112E-01	2.976E-01	1.082E-03	1.082E-03	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	4.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	1.222E+00	5.952E-01	2.164E-03	2.164E-03	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	3.766E-01	1.834E-01	3.246E-03	3.246E-03
1600 - 1700	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	2.510E-01	1.222E-01	2.164E-03	2.164E-03
1700 - 1800	2.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	6.112E-01	2.976E-01	1.082E-03	1.082E-03	4.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	2.510E-01	1.222E-01	2.164E-03	2.164E-03
1800 - 1900	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	3.138E-01	1.528E-01	2.705E-03	2.705E-03
1900 - 2000	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	6.112E-01	2.976E-01	1.082E-03	1.082E-03	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	200	m
Average Spread Distance outside Carpark =	500.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	6.112E-01	2.976E-01	1.082E-03	1.082E-03	3.056E-01	1.488E-01	5.410E-04	5.410E-04	1.453E+00	7.051E-01	0.000E+00	0.000E+00	3.633E+00	1.763E+00	0.000E+00	0.000E+00	1.009E-03	4.896E-04	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	8.622E-01	4.199E-01	3.246E-03	3.246E-03	4.311E-01	2.099E-01	1.623E-03	1.623E-03	1.620E+00	7.857E-01	0.000E+00	0.000E+00	4.049E+00	1.964E+00	0.000E+00	0.000E+00	1.125E-03	5.456E-04	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	6.112E-01	2.976E-01	1.082E-03	1.082E-03	3.056E-01	1.488E-01	5.410E-04	5.410E-04	1.453E+00	7.051E-01	0.000E+00	0.000E+00	3.633E+00	1.763E+00	0.000E+00	0.000E+00	1.009E-03	4.896E-04	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	2.510E-01	1.222E-01	2.164E-03	2.164E-03	1.255E-01	6.112E-02	1.082E-03	1.082E-03	3.301E-01	1.601E-01	0.000E+00	0.000E+00	8.252E-01	4.002E-01	0.000E+00	0.000E+00	2.292E-04	1.112E-04	0.000E+00	0.000E+00
1300 - 1400	6.112E-01	2.976E-01	1.082E-03	1.082E-03	3.056E-01	1.488E-01	5.410E-04	5.410E-04	8.563E-01	4.154E-01	0.000E+00	0.000E+00	2.141E+00	1.038E+00	0.000E+00	0.000E+00	5.947E-04	2.885E-04	0.000E+00	0.000E+00
1400 - 1500	1.222E+00	5.952E-01	2.164E-03	2.164E-03	6.112E-01	2.976E-01	1.082E-03	1.082E-03	1.164E+00	5.644E-01	0.000E+00	0.000E+00	2.910E+00	1.411E+00	0.000E+00	0.000E+00	8.082E-04	3.919E-04	0.000E+00	0.000E+00
1500 - 1600	3.766E-01	1.834E-01	3.246E-03	3.246E-03	1.883E-01	9.169E-02	1.623E-03	1.623E-03	3.988E-01	1.934E-01	0.000E+00	0.000E+00	9.969E-01	4.835E-01	0.000E+00	0.000E+00	2.769E-04	1.343E-04	0.000E+00	0.000E+00
1600 - 1700	2.510E-01	1.222E-01	2.164E-03	2.164E-03	1.255E-01	6.112E-02	1.082E-03	1.082E-03	1.278E-01	6.196E-02	0.000E+00	0.000E+00	3.195E-01	1.549E-01	0.000E+00	0.000E+00	8.875E-05	4.303E-05	0.000E+00	0.000E+00
1700 - 1800	8.622E-01	4.199E-01	3.246E-03	3.246E-03	4.311E-01	2.099E-01	1.623E-03	1.623E-03	1.032E+00	5.007E-01	0.000E+00	0.000E+00	2.581E+00	1.252E+00	0.000E+00	0.000E+00	7.169E-04	3.477E-04	0.000E+00	0.000E+00
1800 - 1900	3.138E-01	1.528E-01	2.705E-03	2.705E-03	1.569E-01	7.640E-02	1.352E-03	1.352E-03	2.296E-01	1.113E-01	0.000E+00	0.000E+00	5.739E-01	2.784E-01	0.000E+00	0.000E+00	1.594E-04	7.732E-05	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	6.112E-01	2.976E-01	1.082E-03	1.082E-03	3.056E-01	1.488E-01	5.410E-04	5.410E-04	8.563E-01	4.154E-01	0.000E+00	0.000E+00	2.141E+00	1.038E+00	0.000E+00	0.000E+00	5.947E-04	2.885E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (HGV9)

Running Emission

Average Travelling Distance within Carpark =	400	m
Average Travelling Speed =	10	km/h

Hour	HGV9								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	2.084E+00	1.015E+00	5.440E-02	5.000E-02
0700 - 0800	2.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	2.084E+00	1.015E+00	5.440E-02	5.000E-02
0800 - 0900	6.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	6.252E+00	3.044E+00	1.632E-01	1.500E-01
0900 - 1000	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	2.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	2.084E+00	1.015E+00	5.440E-02	5.000E-02
1100 - 1200	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	6.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	6.252E+00	3.044E+00	1.632E-01	1.500E-01
1300 - 1400	2.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	2.084E+00	1.015E+00	5.440E-02	5.000E-02
1400 - 1500	4.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	4.168E+00	2.030E+00	1.088E-01	1.000E-01
1500 - 1600	9.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	9.378E+00	4.567E+00	2.448E-01	2.250E-01
1600 - 1700	4.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	4.168E+00	2.030E+00	1.088E-01	1.000E-01
1700 - 1800	6.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	6.252E+00	3.044E+00	1.632E-01	1.500E-01
1800 - 1900	5.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	5.210E+00	2.537E+00	1.360E-01	1.250E-01
1900 - 2000	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	2.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	2.084E+00	1.015E+00	5.440E-02	5.000E-02
2100 - 2200	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV9s =	2	min

Hour	HGV9								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	2.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	1.255E-01	6.112E-02	1.082E-03	1.082E-03
0800 - 0900	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	2.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	1.255E-01	6.112E-02	1.082E-03	1.082E-03
1300 - 1400	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	3.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	1.883E-01	9.169E-02	1.623E-03	1.623E-03
1600 - 1700	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Mega Wheel Warehouse (巨輪集團) (HGV9)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	4.148E+00	2.017E+00	5.548E-02	5.108E-02	1.152E-03	5.604E-04	1.541E-05	1.419E-05
0700 - 0800	2.209E+00	1.076E+00	5.548E-02	5.108E-02	6.137E-04	2.989E-04	1.541E-05	1.419E-05
0800 - 0900	8.734E+00	4.250E+00	1.664E-01	1.532E-01	2.426E-03	1.181E-03	4.623E-05	4.257E-05
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	4.148E+00	2.017E+00	5.548E-02	5.108E-02	1.152E-03	5.604E-04	1.541E-05	1.419E-05
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	6.958E+00	3.388E+00	1.664E-01	1.532E-01	1.933E-03	9.411E-04	4.623E-05	4.257E-05
1300 - 1400	3.551E+00	1.728E+00	5.548E-02	5.108E-02	9.865E-04	4.799E-04	1.541E-05	1.419E-05
1400 - 1500	6.554E+00	3.189E+00	1.110E-01	1.022E-01	1.821E-03	8.859E-04	3.082E-05	2.838E-05
1500 - 1600	1.034E+01	5.035E+00	2.497E-01	2.299E-01	2.873E-03	1.399E-03	6.935E-05	6.385E-05
1600 - 1700	4.547E+00	2.214E+00	1.110E-01	1.022E-01	1.263E-03	6.149E-04	3.082E-05	2.838E-05
1700 - 1800	8.146E+00	3.965E+00	1.664E-01	1.532E-01	2.263E-03	1.101E-03	4.623E-05	4.257E-05
1800 - 1900	5.753E+00	2.801E+00	1.387E-01	1.277E-01	1.598E-03	7.781E-04	3.853E-05	3.547E-05
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	3.551E+00	1.728E+00	5.548E-02	5.108E-02	9.865E-04	4.799E-04	1.541E-05	1.419E-05
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC_Diesel)

Starting Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio =		0.01

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of PC_Diesel**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC_Diesel)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	PC (Diesel)									PC (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.01	3.236E-02	6.326E-03	1.024E-03	1.024E-03	9.551E-04	1.867E-04	3.024E-05	3.024E-05	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.01	3.236E-02	6.326E-03	1.024E-03	1.024E-03	9.551E-04	1.867E-04	3.024E-05	3.024E-05	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.03	3.236E-02	6.326E-03	1.024E-03	1.024E-03	1.910E-03	3.734E-04	6.047E-05	6.047E-05	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.01	3.236E-02	6.326E-03	1.024E-03	1.024E-03	9.551E-04	1.867E-04	3.024E-05	3.024E-05
1800 - 1900	0.04	3.236E-02	6.326E-03	1.024E-03	1.024E-03	2.865E-03	5.601E-04	9.071E-05	9.071E-05	0.04	3.236E-02	6.326E-03	1.024E-03	1.024E-03	2.865E-03	5.601E-04	9.071E-05	9.071E-05
1900 - 2000	0.01	3.236E-02	6.326E-03	1.024E-03	1.024E-03	9.551E-04	1.867E-04	3.024E-05	3.024E-05	0.01	3.236E-02	6.326E-03	1.024E-03	1.024E-03	9.551E-04	1.867E-04	3.024E-05	3.024E-05
2000 - 2100	0.03	3.236E-02	6.326E-03	1.024E-03	1.024E-03	1.910E-03	3.734E-04	6.047E-05	6.047E-05	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adujusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	9.551E-04	1.867E-04	3.024E-05	3.024E-05	4.776E-04	9.336E-05	1.512E-05	1.512E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	9.551E-04	1.867E-04	3.024E-05	3.024E-05	4.776E-04	9.336E-05	1.512E-05	1.512E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.910E-03	3.734E-04	6.047E-05	6.047E-05	9.551E-04	1.867E-04	3.024E-05	3.024E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	9.551E-04	1.867E-04	3.024E-05	3.024E-05	4.776E-04	9.336E-05	1.512E-05	1.512E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	5.731E-03	1.120E-03	1.814E-04	1.814E-04	2.865E-03	5.601E-04	9.071E-05	9.071E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	1.910E-03	3.734E-04	6.047E-05	6.047E-05	9.551E-04	1.867E-04	3.024E-05	3.024E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.910E-03	3.734E-04	6.047E-05	6.047E-05	9.551E-04	1.867E-04	3.024E-05	3.024E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC_Petrol)

Starting Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio =		0.01

	Starting Emission Factor (g/trip)																	
NO	5.620E-02	5.720E-02	5.900E-02	6.080E-02	6.250E-02	6.410E-02	6.570E-02	7.310E-02	8.310E-02	8.250E-02	8.130E-02	7.960E-02	7.750E-02	7.500E-02	7.190E-02	6.850E-02	6.450E-02	6.000E-02
NO_2	3.000E-03	3.000E-03	3.100E-03	3.200E-03	3.300E-03	3.400E-03	3.500E-03	3.900E-03	4.400E-03	4.300E-03	4.300E-03	4.200E-03	4.100E-03	3.900E-03	3.800E-03	3.600E-03	3.400E-03	3.200E-03
RSP	4.000E-04	8.000E-04	1.500E-03	2.300E-03	3.000E-03	3.600E-03	4.300E-03	7.100E-03	7.900E-03	8.700E-03	9.300E-03	9.900E-03	1.040E-02	1.070E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.000E-04	7.000E-04	1.400E-03	2.100E-03	2.700E-03	3.400E-03	3.900E-03	6.500E-03	7.300E-03	8.000E-03	8.700E-03	9.200E-03	9.600E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	**No. of Cold Starts of PC_Petrol**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	1.97	0.00	0.99	0.00	0.00	1.97	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.99
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
6.355E-02	3.350E-03	1.113E-02	1.035E-02
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
6.473E-02	3.448E-03	4.237E-03	3.842E-03
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.597E-01	8.375E-03	1.833E-02	1.695E-02
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.537E-02	2.956E-03	3.941E-04	3.941E-04
4.032E-01	2.128E-02	2.847E-02	2.611E-02
1.319E-01	6.995E-03	9.261E-03	8.473E-03
1.266E-01	6.700E-03	2.217E-02	2.059E-02
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC_Petrol)

Cold Idling Emission

Idling Time for Terminating PCs =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	PC (Petrol)									PC (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.99	1.257E-03	6.547E-05	3.935E-06	3.935E-06	2.477E-03	1.290E-04	7.755E-06	7.755E-06	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.99	1.257E-03	6.547E-05	3.935E-06	3.935E-06	2.477E-03	1.290E-04	7.755E-06	7.755E-06
1200 - 1300	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.97	1.257E-03	6.547E-05	3.935E-06	3.935E-06	4.954E-03	2.580E-04	1.551E-05	1.551E-05	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.99	1.257E-03	6.547E-05	3.935E-06	3.935E-06	2.477E-03	1.290E-04	7.755E-06	7.755E-06
1800 - 1900	0.99	1.257E-03	6.547E-05	3.935E-06	3.935E-06	2.477E-03	1.290E-04	7.755E-06	7.755E-06	4.93	1.257E-03	6.547E-05	3.935E-06	3.935E-06	1.238E-02	6.450E-04	3.877E-05	3.877E-05
1900 - 2000	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.97	1.257E-03	6.547E-05	3.935E-06	3.935E-06	4.954E-03	2.580E-04	1.551E-05	1.551E-05
2000 - 2100	1.97	1.257E-03	6.547E-05	3.935E-06	3.935E-06	4.954E-03	2.580E-04	1.551E-05	1.551E-05	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.477E-03	1.290E-04	7.755E-06	7.755E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.355E-02	3.350E-03	1.113E-02	1.035E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	2.477E-03	1.290E-04	7.755E-06	7.755E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.473E-02	3.448E-03	4.237E-03	3.842E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	4.954E-03	2.580E-04	1.551E-05	1.551E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.597E-01	8.375E-03	1.833E-02	1.695E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	2.477E-03	1.290E-04	7.755E-06	7.755E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.537E-02	2.956E-03	3.941E-04	3.941E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.486E-02	7.740E-04	4.653E-05	4.653E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.032E-01	2.128E-02	2.847E-02	2.611E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	4.954E-03	2.580E-04	1.551E-05	1.551E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.319E-01	6.995E-03	9.261E-03	8.473E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	4.954E-03	2.580E-04	1.551E-05	1.551E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.266E-01	6.700E-03	2.217E-02	2.059E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	PC								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	1.437E-02	7.800E-04	2.880E-03	2.670E-03
0700 - 0800	1.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	1.437E-02	7.800E-04	2.880E-03	2.670E-03
0800 - 0900	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	1.437E-02	7.800E-04	2.880E-03	2.670E-03
1100 - 1200	1.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	1.437E-02	7.800E-04	2.880E-03	2.670E-03
1200 - 1300	1.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	1.437E-02	7.800E-04	2.880E-03	2.670E-03
1300 - 1400	3.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	4.311E-02	2.340E-03	8.640E-03	8.010E-03
1400 - 1500	1.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	1.437E-02	7.800E-04	2.880E-03	2.670E-03
1500 - 1600	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	2.874E-02	1.560E-03	5.760E-03	5.340E-03
1700 - 1800	2.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	2.874E-02	1.560E-03	5.760E-03	5.340E-03
1800 - 1900	6.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	8.622E-02	4.680E-03	1.728E-02	1.602E-02
1900 - 2000	2.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	2.874E-02	1.560E-03	5.760E-03	5.340E-03
2000 - 2100	2.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	2.874E-02	1.560E-03	5.760E-03	5.340E-03
2100 - 2200	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.790E-02	2.600E-03	9.600E-03	8.900E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of PC (Diesel) to No. of PC (Petrol) Ratio [1] =	0.01	
Idling Time for Non-terminating PCs =	0.5	min

Hour	PC (Diesel)									PC (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.01	3.236E-02	6.326E-03	1.024E-03	1.024E-03	2.388E-04	4.668E-05	7.559E-06	7.559E-06	1	1.257E-03	6.547E-05	3.935E-06	3.935E-06	6.192E-04	3.225E-05	1.939E-06	1.939E-06
0800 - 0900	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.01	3.236E-02	6.326E-03	1.024E-03	1.024E-03	2.388E-04	4.668E-05	7.559E-06	7.559E-06	1	1.257E-03	6.547E-05	3.935E-06	3.935E-06	6.192E-04	3.225E-05	1.939E-06	1.939E-06
1100 - 1200	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.01	3.236E-02	6.326E-03	1.024E-03	1.024E-03	2.388E-04	4.668E-05	7.559E-06	7.559E-06	1	1.257E-03	6.547E-05	3.935E-06	3.935E-06	6.192E-04	3.225E-05	1.939E-06	1.939E-06
1300 - 1400	0.01	3.236E-02	6.326E-03	1.024E-03	1.024E-03	2.388E-04	4.668E-05	7.559E-06	7.559E-06	1	1.257E-03	6.547E-05	3.935E-06	3.935E-06	6.192E-04	3.225E-05	1.939E-06	1.939E-06
1400 - 1500	0.01	3.236E-02	6.326E-03	1.024E-03	1.024E-03	2.388E-04	4.668E-05	7.559E-06	7.559E-06	1	1.257E-03	6.547E-05	3.935E-06	3.935E-06	6.192E-04	3.225E-05	1.939E-06	1.939E-06
1500 - 1600	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.03	3.236E-02	6.326E-03	1.024E-03	1.024E-03	4.776E-04	9.336E-05	1.512E-05	1.512E-05	2	1.257E-03	6.547E-05	3.935E-06	3.935E-06	1.238E-03	6.450E-05	3.877E-06	3.877E-06
1700 - 1800	0.01	3.236E-02	6.326E-03	1.024E-03	1.024E-03	2.388E-04	4.668E-05	7.559E-06	7.559E-06	1	1.257E-03	6.547E-05	3.935E-06	3.935E-06	6.192E-04	3.225E-05	1.939E-06	1.939E-06
1800 - 1900	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.236E-02	6.326E-03	1.024E-03	1.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.257E-03	6.547E-05	3.935E-06	3.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of PC (Diesel) to PC (Petrol) was extracted from Year 2039 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (PC)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	8.135E-02	4.446E-03	1.405E-02	1.305E-02	2.260E-05	1.235E-06	3.903E-06	3.626E-06
0700 - 0800	1.523E-02	8.589E-04	2.889E-03	2.679E-03	4.230E-06	2.386E-07	8.026E-07	7.443E-07
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.523E-02	8.589E-04	2.889E-03	2.679E-03	4.230E-06	2.386E-07	8.026E-07	7.443E-07
1100 - 1200	8.253E-02	4.544E-03	7.155E-03	6.550E-03	2.293E-05	1.262E-06	1.987E-06	1.820E-06
1200 - 1300	1.523E-02	8.589E-04	2.889E-03	2.679E-03	4.230E-06	2.386E-07	8.026E-07	7.443E-07
1300 - 1400	2.105E-01	1.142E-02	2.705E-02	2.504E-02	5.848E-05	3.174E-06	7.514E-06	6.956E-06
1400 - 1500	1.523E-02	8.589E-04	2.889E-03	2.679E-03	4.230E-06	2.386E-07	8.026E-07	7.443E-07
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	3.046E-02	1.718E-03	5.779E-03	5.359E-03	8.460E-06	4.772E-07	1.605E-06	1.489E-06
1700 - 1800	8.840E-02	4.910E-03	6.202E-03	5.782E-03	2.456E-05	1.364E-06	1.723E-06	1.606E-06
1800 - 1900	5.100E-01	2.786E-02	4.598E-02	4.236E-02	1.417E-04	7.738E-06	1.277E-05	1.177E-05
1900 - 2000	1.675E-01	9.187E-03	1.510E-02	1.389E-02	4.654E-05	2.552E-06	4.194E-06	3.858E-06
2000 - 2100	1.622E-01	8.891E-03	2.800E-02	2.601E-02	4.506E-05	2.470E-06	7.779E-06	7.224E-06
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi_LPG)

Starting Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio =		457876.06

	Starting Emission Factor (g/trip)																	
NO	1.014E+00	1.031E+00	1.064E+00	1.096E+00	1.126E+00	1.156E+00	1.185E+00	1.318E+00	1.498E+00	1.485E+00	1.464E+00	1.435E+00	1.397E+00	1.351E+00	1.296E+00	1.233E+00	1.162E+00	1.081E+00
NO_2	2.850E-02	2.890E-02	2.990E-02	3.070E-02	3.160E-02	3.240E-02	3.320E-02	3.700E-02	4.200E-02	4.170E-02	4.110E-02	4.030E-02	3.920E-02	3.790E-02	3.640E-02	3.460E-02	3.260E-02	3.040E-02
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of Taxi_LPG**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	**Total Starting Emission (g)**			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi_LPG)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (LPG)									Taxi (LPG)									
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.634E-01	4.593E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi_Petrol)

Starting Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio =		457876.06

	Starting Emission Factor (g/trip)																	
NO	7.790E-02	7.910E-02	8.170E-02	8.420E-02	8.640E-02	8.870E-02	9.090E-02	1.013E-01	1.149E-01	1.140E-01	1.125E-01	1.102E-01	1.073E-01	1.037E-01	9.960E-02	9.470E-02	8.920E-02	8.300E-02
NO_2	4.100E-03	4.200E-03	4.300E-03	4.400E-03	4.600E-03	4.700E-03	4.800E-03	5.300E-03	6.100E-03	6.000E-03	5.900E-03	5.800E-03	5.600E-03	5.500E-03	5.200E-03	5.000E-03	4.700E-03	4.400E-03
RSP	4.000E-04	8.000E-04	1.500E-03	2.300E-03	3.000E-03	3.600E-03	4.200E-03	7.000E-03	7.900E-03	8.700E-03	9.300E-03	9.900E-03	1.040E-02	1.070E-02	1.100E-02	1.120E-02	1.130E-02	1.130E-02
FSP	4.000E-04	7.000E-04	1.400E-03	2.100E-03	2.700E-03	3.400E-03	3.900E-03	6.500E-03	7.300E-03	8.000E-03	8.700E-03	9.200E-03	9.600E-03	1.000E-02	1.020E-02	1.040E-02	1.050E-02	1.050E-02

Hour	**No. of Cold Starts of Taxi_Petrol**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	Total Starting Emission (g)			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi_Petrol)

Cold Idling Emission

Idling Time for Terminating Taxi =	2	min
Max. Idling Time for Adjusting Starting Emission =	0.5	min

Hour	Taxi (Petrol)									Taxi (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	Taxi								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	2.871E-01	8.070E-03	0.000E+00	0.000E+00
1900 - 2000	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	9.571E-01	2.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of Taxi (LPG) to No. of Taxi (Petrol) Ratio [1] =	457876.06	
Idling Time for Non-terminating Taxi =	0.5	min

Hour	Taxi (LPG)									Taxi (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	1.062E-01	2.985E-03	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	1.799E-09	9.337E-11	2.366E-10	2.366E-10
1900 - 2000	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.124E-01	5.971E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.648E-03	8.550E-05	2.167E-04	2.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of Taxi (LPG) to Taxi (Petrol) was extracted from Year 2039 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (Taxi)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	3.933E-01	1.106E-02	2.366E-10	2.366E-10	1.093E-04	3.071E-06	6.572E-14	6.572E-14
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3_Diesel)

Starting Emission

No. of LGV3 (Diesel) to No. of LGV3 (Petrol) Ratio =		29.76

	Starting Emission Factor (g/trip)																	
NO	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NO_2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of LGV3_Diesel**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hour	**Total Starting Emission (g)**			
	NO	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV3 (Diesel)									LGV3 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.97	2.638E-02	1.602E-03	4.333E-04	4.333E-04	5.104E-02	3.100E-03	8.385E-04	8.385E-04
1500 - 1600	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.97	2.638E-02	1.602E-03	4.333E-04	4.333E-04	5.104E-02	3.100E-03	8.385E-04	8.385E-04
1800 - 1900	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	5.104E-02	3.100E-03	8.385E-04	8.385E-04	2.552E-02	1.550E-03	4.192E-04	4.192E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	5.104E-02	3.100E-03	8.385E-04	8.385E-04	2.552E-02	1.550E-03	4.192E-04	4.192E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3_Petrol)

Starting Emission

No. of LGV3 (Diesel) to No. of LGV3 (Petrol) Ratio =		29.76

	Starting Emission Factor (g/trip)																	
NO	3.580E-02	3.720E-02	3.990E-02	4.230E-02	4.430E-02	4.600E-02	4.730E-02	5.230E-02	5.890E-02	5.840E-02	5.770E-02	5.660E-02	5.520E-02	5.360E-02	5.160E-02	4.930E-02	4.670E-02	4.390E-02
NO_2	1.900E-03	2.000E-03	2.100E-03	2.200E-03	2.300E-03	2.400E-03	2.500E-03	2.700E-03	3.100E-03	3.100E-03	3.000E-03	3.000E-03	2.900E-03	2.800E-03	2.700E-03	2.600E-03	2.500E-03	2.300E-03
RSP	0.000E+00	0.000E+00	1.000E-04	1.000E-04	1.000E-04	2.000E-04	2.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	4.000E-04	4.000E-04	4.000E-04	4.000E-04	4.000E-04
FSP	0.000E+00	0.000E+00	1.000E-04	1.000E-04	1.000E-04	1.000E-04	2.000E-04	2.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	3.000E-04	4.000E-04	4.000E-04

Hour	**No. of Cold Starts of LGV3_Petrol**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.209E-03	6.502E-05	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.164E-03	6.177E-05	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3_Petrol)

Cold Idling Emission

Idling Time for Terminating LGV3s =	2	min
Max. Idling Time for Adjusting Starting Emission =	0	min

Hour	LGV3 (Petrol)									LGV3 (Petrol)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	1.522E-03	7.933E-05	5.835E-07	5.835E-07	9.896E-05	5.158E-06	3.794E-08	3.794E-08
1500 - 1600	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.03	1.522E-03	7.933E-05	5.835E-07	5.835E-07	9.896E-05	5.158E-06	3.794E-08	3.794E-08
1800 - 1900	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150.0	m
Average Spread Distance outside Carpark =	0.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	9.896E-05	5.158E-06	3.794E-08	3.794E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.209E-03	6.502E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	9.896E-05	5.158E-06	3.794E-08	3.794E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.164E-03	6.177E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	LGV3								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	4.892E-01	2.970E-02	4.350E-03	3.990E-03
0700 - 0800	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	9.784E-01	5.940E-02	8.700E-03	7.980E-03
1000 - 1100	1.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	4.892E-01	2.970E-02	4.350E-03	3.990E-03
1100 - 1200	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	4.892E-01	2.970E-02	4.350E-03	3.990E-03
1500 - 1600	1.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	4.892E-01	2.970E-02	4.350E-03	3.990E-03
1600 - 1700	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	1.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	4.892E-01	2.970E-02	4.350E-03	3.990E-03
1800 - 1900	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	4.892E-01	2.970E-02	4.350E-03	3.990E-03
2100 - 2200	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.631E+00	9.900E-02	1.450E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

No. of LGV3 (Diesel) to No. of LGV3 (LPG) Ratio [1] =	29.76	
Idling Time for Non-terminating LGV3s =	0.5	min

Hour	LGV3 (Diesel)									LGV3 (Petrol)								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.97	2.638E-02	1.602E-03	4.333E-04	4.333E-04	1.276E-02	7.751E-04	2.096E-04	2.096E-04	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	2.474E-05	1.290E-06	9.484E-09	9.484E-09
0700 - 0800	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.93	2.638E-02	1.602E-03	4.333E-04	4.333E-04	2.552E-02	1.550E-03	4.192E-04	4.192E-04	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	4.948E-05	2.579E-06	1.897E-08	1.897E-08
1000 - 1100	0.97	2.638E-02	1.602E-03	4.333E-04	4.333E-04	1.276E-02	7.751E-04	2.096E-04	2.096E-04	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	2.474E-05	1.290E-06	9.484E-09	9.484E-09
1100 - 1200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.97	2.638E-02	1.602E-03	4.333E-04	4.333E-04	1.276E-02	7.751E-04	2.096E-04	2.096E-04	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	2.474E-05	1.290E-06	9.484E-09	9.484E-09
1600 - 1700	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.97	2.638E-02	1.602E-03	4.333E-04	4.333E-04	1.276E-02	7.751E-04	2.096E-04	2.096E-04	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	2.474E-05	1.290E-06	9.484E-09	9.484E-09
2100 - 2200	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.638E-02	1.602E-03	4.333E-04	4.333E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	1.522E-03	7.933E-05	5.835E-07	5.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

[1] Population ratio of LGV3 (Diesel) to LGV3 (Petrol) was extracted from Year 2039 data of EMFAC-HK.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV3)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	5.020E-01	3.048E-02	4.560E-03	4.200E-03	1.394E-04	8.466E-06	1.267E-06	1.167E-06
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.004E+00	6.095E-02	9.119E-03	8.399E-03	2.789E-04	1.693E-05	2.533E-06	2.333E-06
1000 - 1100	5.020E-01	3.048E-02	4.560E-03	4.200E-03	1.394E-04	8.466E-06	1.267E-06	1.167E-06
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	5.416E-01	3.287E-02	5.189E-03	4.829E-03	1.504E-04	9.131E-06	1.441E-06	1.341E-06
1500 - 1600	5.020E-01	3.048E-02	4.560E-03	4.200E-03	1.394E-04	8.466E-06	1.267E-06	1.167E-06
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	5.415E-01	3.287E-02	5.189E-03	4.829E-03	1.504E-04	9.130E-06	1.441E-06	1.341E-06
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	5.020E-01	3.048E-02	4.560E-03	4.200E-03	1.394E-04	8.466E-06	1.267E-06	1.167E-06
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV6_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	4.920E-02	8.860E-02	1.182E-01	1.675E-01	2.069E-01	2.758E-01	4.039E-01	5.024E-01	7.388E-01	9.654E-01	1.084E+00	1.281E+00	1.409E+00	1.478E+00	1.517E+00	1.556E+00	1.576E+00	1.576E+00
NO_2	1.920E-02	3.450E-02	4.600E-02	6.510E-02	8.040E-02	1.073E-01	1.571E-01	1.954E-01	2.873E-01	3.754E-01	4.214E-01	4.980E-01	5.478E-01	5.746E-01	5.900E-01	6.053E-01	6.129E-01	6.129E-01
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of LGV6**																		**Total Starting Emission (g)**			
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**	**NO**	**NO_2**	**RSP**	**FSP**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.478E+00	5.746E-01	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.860E-02	3.450E-02	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.039E-01	1.571E-01	0.000E+00	0.000E+00
1100 - 1200	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.840E-02	3.840E-02	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.039E-01	1.571E-01	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.369E+00	5.325E-01	0.000E+00	0.000E+00
1600 - 1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.182E-01	4.600E-02	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.556E+00	6.053E-01	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV6_Diesel)

Cold Idling Emission

Idling Time for Terminating LGV6s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	LGV6 (Diesel)									LGV6 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	8.671E-02	3.372E-02	3.971E-04	3.971E-04	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	4.971E-02	1.933E-02	3.971E-04	3.971E-04
1000 - 1100	1.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	8.671E-02	3.372E-02	3.971E-04	3.971E-04	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	9.941E-02	3.866E-02	7.942E-04	7.942E-04
1200 - 1300	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	8.671E-02	3.372E-02	3.971E-04	3.971E-04	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	2.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	1.734E-01	6.745E-02	7.942E-04	7.942E-04	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	4.971E-02	1.933E-02	3.971E-04	3.971E-04
1800 - 1900	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	8.671E-02	3.372E-02	3.971E-04	3.971E-04	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	4.336E-02	1.686E-02	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	8.671E-02	3.372E-02	3.971E-04	3.971E-04	4.336E-02	1.686E-02	1.986E-04	1.986E-04	3.074E-01	1.195E-01	0.000E+00	0.000E+00	1.127E+00	4.382E-01	0.000E+00	0.000E+00	3.131E-04	1.217E-04	0.000E+00	0.000E+00
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	4.971E-02	1.933E-02	3.971E-04	3.971E-04	2.485E-02	9.665E-03	1.986E-04	1.986E-04	1.366E-02	5.322E-03	0.000E+00	0.000E+00	5.009E-02	1.951E-02	0.000E+00	0.000E+00	1.391E-05	5.420E-06	0.000E+00	0.000E+00
1000 - 1100	8.671E-02	3.372E-02	3.971E-04	3.971E-04	4.336E-02	1.686E-02	1.986E-04	1.986E-04	7.726E-02	3.005E-02	0.000E+00	0.000E+00	2.833E-01	1.102E-01	0.000E+00	0.000E+00	7.869E-05	3.061E-05	0.000E+00	0.000E+00
1100 - 1200	9.941E-02	3.866E-02	7.942E-04	7.942E-04	4.971E-02	1.933E-02	3.971E-04	3.971E-04	1.043E-02	4.086E-03	0.000E+00	0.000E+00	3.826E-02	1.498E-02	0.000E+00	0.000E+00	1.063E-05	4.162E-06	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	8.671E-02	3.372E-02	3.971E-04	3.971E-04	4.336E-02	1.686E-02	1.986E-04	1.986E-04	7.726E-02	3.005E-02	0.000E+00	0.000E+00	2.833E-01	1.102E-01	0.000E+00	0.000E+00	7.869E-05	3.061E-05	0.000E+00	0.000E+00
1400 - 1500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	1.734E-01	6.745E-02	7.942E-04	7.942E-04	8.671E-02	3.372E-02	3.971E-04	3.971E-04	2.748E-01	1.069E-01	0.000E+00	0.000E+00	1.008E+00	3.919E-01	0.000E+00	0.000E+00	2.799E-04	1.089E-04	0.000E+00	0.000E+00
1600 - 1700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	4.971E-02	1.933E-02	3.971E-04	3.971E-04	2.485E-02	9.665E-03	1.986E-04	1.986E-04	2.000E-02	7.786E-03	0.000E+00	0.000E+00	7.334E-02	2.855E-02	0.000E+00	0.000E+00	2.037E-05	7.930E-06	0.000E+00	0.000E+00
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	8.671E-02	3.372E-02	3.971E-04	3.971E-04	4.336E-02	1.686E-02	1.986E-04	1.986E-04	3.242E-01	1.261E-01	0.000E+00	0.000E+00	1.189E+00	4.623E-01	0.000E+00	0.000E+00	3.302E-04	1.284E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV6)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	Frequency	LGV6							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	2.152E-01	8.370E-02	6.480E-03	5.940E-03
0800 - 0900	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	1.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	2.152E-01	8.370E-02	6.480E-03	5.940E-03
1000 - 1100	1.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	2.152E-01	8.370E-02	6.480E-03	5.940E-03
1100 - 1200	3.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	6.457E-01	2.511E-01	1.944E-02	1.782E-02
1200 - 1300	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	4.304E-01	1.674E-01	1.296E-02	1.188E-02
1400 - 1500	1.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	2.152E-01	8.370E-02	6.480E-03	5.940E-03
1500 - 1600	2.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	4.304E-01	1.674E-01	1.296E-02	1.188E-02
1600 - 1700	1.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	2.152E-01	8.370E-02	6.480E-03	5.940E-03
1700 - 1800	1.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	2.152E-01	8.370E-02	6.480E-03	5.940E-03
1800 - 1900	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	2.152E-01	8.370E-02	6.480E-03	5.940E-03
2100 - 2200	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	7.174E-01	2.790E-01	2.160E-02	1.980E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating LGV6s =	2	min

Hour	Frequency	LGV6							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	4.971E-02	1.933E-02	3.971E-04	3.971E-04
1200 - 1300	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	1.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	4.971E-02	1.933E-02	3.971E-04	3.971E-04
1400 - 1500	1.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	4.971E-02	1.933E-02	3.971E-04	3.971E-04
1500 - 1600	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	4.971E-02	1.933E-02	3.971E-04	3.971E-04
1700 - 1800	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.485E-02	9.665E-03	1.986E-04	1.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (LGV6)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	6.093E-01	2.369E-01	6.877E-03	6.337E-03	1.692E-04	6.582E-05	1.910E-06	1.760E-06
0800 - 0900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.786E-01	1.084E-01	6.877E-03	6.337E-03	7.738E-05	3.010E-05	1.910E-06	1.760E-06
1000 - 1100	3.792E-01	1.475E-01	6.877E-03	6.337E-03	1.053E-04	4.097E-05	1.910E-06	1.760E-06
1100 - 1200	8.052E-01	3.132E-01	2.063E-02	1.901E-02	2.237E-04	8.699E-05	5.731E-06	5.281E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	6.441E-01	2.505E-01	1.375E-02	1.267E-02	1.789E-04	6.958E-05	3.821E-06	3.521E-06
1400 - 1500	2.649E-01	1.030E-01	6.877E-03	6.337E-03	7.359E-05	2.862E-05	1.910E-06	1.760E-06
1500 - 1600	8.787E-01	3.417E-01	1.375E-02	1.267E-02	2.441E-04	9.492E-05	3.821E-06	3.521E-06
1600 - 1700	2.649E-01	1.030E-01	6.877E-03	6.337E-03	7.359E-05	2.862E-05	1.910E-06	1.760E-06
1700 - 1800	2.849E-01	1.108E-01	6.877E-03	6.337E-03	7.915E-05	3.078E-05	1.910E-06	1.760E-06
1800 - 1900	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	6.262E-01	2.435E-01	6.877E-03	6.337E-03	1.739E-04	6.764E-05	1.910E-06	1.760E-06
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV7_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.700E-02	1.566E-01	2.088E-01	2.959E-01	3.654E-01	4.873E-01	7.135E-01	8.876E-01	1.305E+00	1.706E+00	1.914E+00	2.262E+00	2.489E+00	2.610E+00	2.680E+00	2.750E+00	2.784E+00	2.784E+00
NO_2	4.280E-02	7.710E-02	1.028E-01	1.456E-01	1.799E-01	2.398E-01	3.512E-01	4.368E-01	6.424E-01	8.394E-01	9.422E-01	1.114E+00	1.225E+00	1.285E+00	1.319E+00	1.353E+00	1.371E+00	1.371E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	No. of Cold Starts of HGV7																		Total Starting Emission (g)			
Sitting Time (min)	5	10	20	30	40	50	60	120	180	240	300	360	420	480	540	600	660	720	NO	NO_2	RSP	FSP
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	2.784E+00	1.371E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	5.569E+00	2.741E+00	0.000E+00	0.000E+00
0900 - 1000	1.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	6.039E+00	2.972E+00	0.000E+00	0.000E+00
1000 - 1100	1.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.788E-01	3.340E-01	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.439E-01	3.169E-01	0.000E+00	0.000E+00
1400 - 1500	0.00	0.00	1.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	3.585E+00	1.765E+00	0.000E+00	0.000E+00
1500 - 1600	2.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.875E-01	4.368E-01	0.000E+00	0.000E+00
1600 - 1700	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.829E-01	1.884E-01	0.000E+00	0.000E+00
1700 - 1800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.613E-01	3.255E-01	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV7_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV7s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV7 (Diesel)									HGV7 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	4.748E-01	2.332E-01	4.045E-04	4.045E-04	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	2.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	9.496E-01	4.664E-01	8.090E-04	8.090E-04	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	2.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	9.496E-01	4.664E-01	8.090E-04	8.090E-04	3.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	1.405E-01	6.903E-02	1.213E-03	1.213E-03
1000 - 1100	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	1.405E-01	6.903E-02	1.213E-03	1.213E-03
1100 - 1200	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	9.369E-02	4.602E-02	8.090E-04	8.090E-04
1400 - 1500	1.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	4.748E-01	2.332E-01	4.045E-04	4.045E-04	3.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	1.405E-01	6.903E-02	1.213E-03	1.213E-03
1500 - 1600	1.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	4.748E-01	2.332E-01	4.045E-04	4.045E-04	2.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	9.369E-02	4.602E-02	8.090E-04	8.090E-04
1600 - 1700	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	9.369E-02	4.602E-02	8.090E-04	8.090E-04
1700 - 1800	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	9.369E-02	4.602E-02	8.090E-04	8.090E-04
1900 - 2000	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.374E-01	1.166E-01	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	4.748E-01	2.332E-01	4.045E-04	4.045E-04	2.374E-01	1.166E-01	2.022E-04	2.022E-04	5.458E-01	2.687E-01	0.000E+00	0.000E+00	2.001E+00	9.852E-01	0.000E+00	0.000E+00	5.559E-04	2.737E-04	0.000E+00	0.000E+00
0800 - 0900	9.496E-01	4.664E-01	8.090E-04	8.090E-04	4.748E-01	2.332E-01	4.045E-04	4.045E-04	1.092E+00	5.374E-01	0.000E+00	0.000E+00	4.002E+00	1.970E+00	0.000E+00	0.000E+00	1.112E-03	5.473E-04	0.000E+00	0.000E+00
0900 - 1000	1.090E+00	5.355E-01	2.022E-03	2.022E-03	5.450E-01	2.677E-01	1.011E-03	1.011E-03	1.177E+00	5.795E-01	0.000E+00	0.000E+00	4.316E+00	2.125E+00	0.000E+00	0.000E+00	1.199E-03	5.903E-04	0.000E+00	0.000E+00
1000 - 1100	1.405E-01	6.903E-02	1.213E-03	1.213E-03	7.027E-02	3.452E-02	6.067E-04	6.067E-04	1.304E-01	6.418E-02	0.000E+00	0.000E+00	4.781E-01	2.353E-01	0.000E+00	0.000E+00	1.328E-04	6.536E-05	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	9.369E-02	4.602E-02	8.090E-04	8.090E-04	4.684E-02	2.301E-02	4.045E-04	4.045E-04	1.279E-01	6.298E-02	0.000E+00	0.000E+00	4.691E-01	2.309E-01	0.000E+00	0.000E+00	1.303E-04	6.414E-05	0.000E+00	0.000E+00
1400 - 1500	6.153E-01	3.022E-01	1.618E-03	1.618E-03	3.077E-01	1.511E-01	8.090E-04	8.090E-04	7.023E-01	3.457E-01	0.000E+00	0.000E+00	2.575E+00	1.268E+00	0.000E+00	0.000E+00	7.153E-04	3.521E-04	0.000E+00	0.000E+00
1500 - 1600	5.685E-01	2.792E-01	1.213E-03	1.213E-03	2.842E-01	1.396E-01	6.067E-04	6.067E-04	1.293E-01	6.368E-02	0.000E+00	0.000E+00	4.740E-01	2.335E-01	0.000E+00	0.000E+00	1.317E-04	6.486E-05	0.000E+00	0.000E+00
1600 - 1700	9.369E-02	4.602E-02	8.090E-04	8.090E-04	4.684E-02	2.301E-02	4.045E-04	4.045E-04	7.201E-02	3.544E-02	0.000E+00	0.000E+00	2.640E-01	1.299E-01	0.000E+00	0.000E+00	7.335E-05	3.610E-05	0.000E+00	0.000E+00
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	9.369E-02	4.602E-02	8.090E-04	8.090E-04	4.684E-02	2.301E-02	4.045E-04	4.045E-04	1.317E-01	6.482E-02	0.000E+00	0.000E+00	4.828E-01	2.377E-01	0.000E+00	0.000E+00	1.341E-04	6.602E-05	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV7)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV7							
		Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	3.139E-01	1.542E-01	1.116E-02	1.026E-02
0800 - 0900	2.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	6.277E-01	3.083E-01	2.232E-02	2.052E-02
0900 - 1000	5.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	1.569E+00	7.708E-01	5.580E-02	5.130E-02
1000 - 1100	3.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	9.416E-01	4.625E-01	3.348E-02	3.078E-02
1100 - 1200	1.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	3.139E-01	1.542E-01	1.116E-02	1.026E-02
1200 - 1300	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	2.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	6.277E-01	3.083E-01	2.232E-02	2.052E-02
1400 - 1500	5.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	1.569E+00	7.708E-01	5.580E-02	5.130E-02
1500 - 1600	3.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	9.416E-01	4.625E-01	3.348E-02	3.078E-02
1600 - 1700	3.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	9.416E-01	4.625E-01	3.348E-02	3.078E-02
1700 - 1800	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	3.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	9.416E-01	4.625E-01	3.348E-02	3.078E-02
1900 - 2000	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.046E+00	5.139E-01	3.720E-02	3.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV7s =	2	min

Hour	Frequency	HGV7							
		Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	1.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	4.684E-02	2.301E-02	4.045E-04	4.045E-04
1200 - 1300	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	4.684E-02	2.301E-02	4.045E-04	4.045E-04
1500 - 1600	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	4.684E-02	2.301E-02	4.045E-04	4.045E-04
1700 - 1800	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	4.684E-02	2.301E-02	4.045E-04	4.045E-04
1900 - 2000	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.342E-02	1.151E-02	2.022E-04	2.022E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV7)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.334E+00	6.561E-01	1.156E-02	1.066E-02	3.707E-04	1.822E-04	3.212E-06	2.962E-06
0800 - 0900	2.669E+00	1.312E+00	2.313E-02	2.133E-02	7.414E-04	3.645E-04	6.425E-06	5.925E-06
0900 - 1000	3.837E+00	1.886E+00	5.782E-02	5.332E-02	1.066E-03	5.238E-04	1.606E-05	1.481E-05
1000 - 1100	1.213E+00	5.957E-01	3.469E-02	3.199E-02	3.368E-04	1.655E-04	9.637E-06	8.887E-06
1100 - 1200	3.607E-01	1.772E-01	1.156E-02	1.066E-02	1.002E-04	4.922E-05	3.212E-06	2.962E-06
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	8.493E-01	4.173E-01	2.313E-02	2.133E-02	2.359E-04	1.159E-04	6.425E-06	5.925E-06
1400 - 1500	2.934E+00	1.442E+00	5.782E-02	5.332E-02	8.149E-04	4.005E-04	1.606E-05	1.481E-05
1500 - 1600	1.639E+00	8.054E-01	3.469E-02	3.199E-02	4.554E-04	2.237E-04	9.637E-06	8.887E-06
1600 - 1700	1.154E+00	5.670E-01	3.469E-02	3.199E-02	3.206E-04	1.575E-04	9.637E-06	8.887E-06
1700 - 1800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.214E+00	5.964E-01	3.469E-02	3.199E-02	3.372E-04	1.657E-04	9.637E-06	8.887E-06
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV8_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.400E-02	1.511E-01	2.016E-01	2.855E-01	3.527E-01	4.702E-01	6.885E-01	8.565E-01	1.260E+00	1.646E+00	1.847E+00	2.183E+00	2.402E+00	2.519E+00	2.586E+00	2.653E+00	2.687E+00	2.687E+00
NO_2	4.090E-02	7.370E-02	9.820E-02	1.392E-01	1.719E-01	2.292E-01	3.357E-01	4.175E-01	6.140E-01	8.023E-01	9.005E-01	1.064E+00	1.171E+00	1.228E+00	1.261E+00	1.294E+00	1.310E+00	1.310E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	No. of Cold Starts of HGV8																		Total Starting Emission (g)			
Sitting Time (min)	5	10	20	30	40	50	60	120	180	240	300	360	420	480	540	600	660	720	NO	NO_2	RSP	FSP
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	2.687E+00	1.310E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.400E-02	4.090E-02	0.000E+00	0.000E+00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.702E-01	2.292E-01	0.000E+00	0.000E+00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.885E-01	3.357E-01	0.000E+00	0.000E+00
1200 - 1300	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.400E-02	4.090E-02	0.000E+00	0.000E+00
1300 - 1400	0.00	0.00	1.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.579E+00	7.696E-01	0.000E+00	0.000E+00
1400 - 1500	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.527E-01	1.719E-01	0.000E+00	0.000E+00
1500 - 1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.725E-01	3.766E-01	0.000E+00	0.000E+00
1700 - 1800	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.213E-01	3.029E-01	0.000E+00	0.000E+00
1800 - 1900	0.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.915E+00	9.332E-01	0.000E+00	0.000E+00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.885E-01	3.357E-01	0.000E+00	0.000E+00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV8_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV8s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV8 (Diesel)									HGV8 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	3.030E-01	1.482E-01	4.454E-04	4.454E-04	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	5.182E-02	2.534E-02	4.454E-04	4.454E-04
0900 - 1000	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	5.182E-02	2.534E-02	4.454E-04	4.454E-04
1100 - 1200	1.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	3.030E-01	1.482E-01	4.454E-04	4.454E-04	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	5.182E-02	2.534E-02	4.454E-04	4.454E-04
1300 - 1400	2.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	6.060E-01	2.963E-01	8.908E-04	8.908E-04	1.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	5.182E-02	2.534E-02	4.454E-04	4.454E-04
1400 - 1500	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	1.036E-01	5.069E-02	8.908E-04	8.908E-04
1500 - 1600	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	1.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	3.030E-01	1.482E-01	4.454E-04	4.454E-04	1.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	5.182E-02	2.534E-02	4.454E-04	4.454E-04
1700 - 1800	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	1.036E-01	5.069E-02	8.908E-04	8.908E-04
1800 - 1900	2.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	6.060E-01	2.963E-01	8.908E-04	8.908E-04	1.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	5.182E-02	2.534E-02	4.454E-04	4.454E-04
1900 - 2000	1.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	3.030E-01	1.482E-01	4.454E-04	4.454E-04	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.515E-01	7.409E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	3.030E-01	1.482E-01	4.454E-04	4.454E-04	1.515E-01	7.409E-02	2.227E-04	2.227E-04	5.433E-01	2.648E-01	0.000E+00	0.000E+00	1.992E+00	9.710E-01	0.000E+00	0.000E+00	5.534E-04	2.697E-04	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	5.182E-02	2.534E-02	4.454E-04	4.454E-04	2.591E-02	1.267E-02	2.227E-04	2.227E-04	1.245E-02	6.049E-03	0.000E+00	0.000E+00	4.564E-02	2.218E-02	0.000E+00	0.000E+00	1.268E-05	6.161E-06	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	5.182E-02	2.534E-02	4.454E-04	4.454E-04	2.591E-02	1.267E-02	2.227E-04	2.227E-04	9.520E-02	4.640E-02	0.000E+00	0.000E+00	3.491E-01	1.701E-01	0.000E+00	0.000E+00	9.697E-05	4.726E-05	0.000E+00	0.000E+00
1100 - 1200	3.030E-01	1.482E-01	4.454E-04	4.454E-04	1.515E-01	7.409E-02	2.227E-04	2.227E-04	1.151E-01	5.606E-02	0.000E+00	0.000E+00	4.219E-01	2.056E-01	0.000E+00	0.000E+00	1.172E-04	5.710E-05	0.000E+00	0.000E+00
1200 - 1300	5.182E-02	2.534E-02	4.454E-04	4.454E-04	2.591E-02	1.267E-02	2.227E-04	2.227E-04	1.245E-02	6.049E-03	0.000E+00	0.000E+00	4.564E-02	2.218E-02	0.000E+00	0.000E+00	1.268E-05	6.161E-06	0.000E+00	0.000E+00
1300 - 1400	6.578E-01	3.217E-01	1.336E-03	1.336E-03	3.289E-01	1.608E-01	6.681E-04	6.681E-04	2.678E-01	1.304E-01	0.000E+00	0.000E+00	9.819E-01	4.783E-01	0.000E+00	0.000E+00	2.728E-04	1.329E-04	0.000E+00	0.000E+00
1400 - 1500	1.036E-01	5.069E-02	8.908E-04	8.908E-04	5.182E-02	2.534E-02	4.454E-04	4.454E-04	6.447E-02	3.140E-02	0.000E+00	0.000E+00	2.364E-01	1.152E-01	0.000E+00	0.000E+00	6.567E-05	3.199E-05	0.000E+00	0.000E+00
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	3.548E-01	1.735E-01	8.908E-04	8.908E-04	1.774E-01	8.676E-02	4.454E-04	4.454E-04	1.275E-01	6.211E-02	0.000E+00	0.000E+00	4.676E-01	2.277E-01	0.000E+00	0.000E+00	1.299E-04	6.326E-05	0.000E+00	0.000E+00
1700 - 1800	1.036E-01	5.069E-02	8.908E-04	8.908E-04	5.182E-02	2.534E-02	4.454E-04	4.454E-04	1.220E-01	5.948E-02	0.000E+00	0.000E+00	4.474E-01	2.181E-01	0.000E+00	0.000E+00	1.243E-04	6.058E-05	0.000E+00	0.000E+00
1800 - 1900	6.578E-01	3.217E-01	1.336E-03	1.336E-03	3.289E-01	1.608E-01	6.681E-04	6.681E-04	3.398E-01	1.655E-01	0.000E+00	0.000E+00	1.246E+00	6.068E-01	0.000E+00	0.000E+00	3.461E-04	1.686E-04	0.000E+00	0.000E+00
1900 - 2000	3.030E-01	1.482E-01	4.454E-04	4.454E-04	1.515E-01	7.409E-02	2.227E-04	2.227E-04	1.151E-01	5.606E-02	0.000E+00	0.000E+00	4.219E-01	2.056E-01	0.000E+00	0.000E+00	1.172E-04	5.710E-05	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV8)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	Frequency	HGV8 Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	7.749E-01	3.790E-01	1.887E-02	1.737E-02
0700 - 0800	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	7.749E-01	3.790E-01	1.887E-02	1.737E-02
0900 - 1000	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	7.749E-01	3.790E-01	1.887E-02	1.737E-02
1100 - 1200	1.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	7.749E-01	3.790E-01	1.887E-02	1.737E-02
1200 - 1300	3.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	2.325E+00	1.137E+00	5.661E-02	5.211E-02
1300 - 1400	3.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	2.325E+00	1.137E+00	5.661E-02	5.211E-02
1400 - 1500	2.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	1.550E+00	7.579E-01	3.774E-02	3.474E-02
1500 - 1600	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	1.550E+00	7.579E-01	3.774E-02	3.474E-02
1700 - 1800	2.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	1.550E+00	7.579E-01	3.774E-02	3.474E-02
1800 - 1900	4.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	3.100E+00	1.516E+00	7.548E-02	6.948E-02
1900 - 2000	1.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	7.749E-01	3.790E-01	1.887E-02	1.737E-02
2000 - 2100	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.583E+00	1.263E+00	6.290E-02	5.790E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV8s =	2	min

Hour	Frequency	HGV8 Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	2.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	1.036E-01	5.069E-02	8.908E-04	8.908E-04
1300 - 1400	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	1.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	5.182E-02	2.534E-02	4.454E-04	4.454E-04
1900 - 2000	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.591E-02	1.267E-02	2.227E-04	2.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV8)

Total Hourly Emission

Hour	Emission Within Carpark							
	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.621E+00	7.920E-01	1.932E-02	1.782E-02	4.503E-04	2.200E-04	5.365E-06	4.949E-06
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	8.392E-01	4.104E-01	1.932E-02	1.782E-02	2.331E-04	1.140E-04	5.365E-06	4.949E-06
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	9.219E-01	4.507E-01	1.932E-02	1.782E-02	2.561E-04	1.252E-04	5.365E-06	4.949E-06
1100 - 1200	1.193E+00	5.832E-01	1.932E-02	1.782E-02	3.314E-04	1.620E-04	5.365E-06	4.949E-06
1200 - 1300	2.493E+00	1.219E+00	5.795E-02	5.345E-02	6.924E-04	3.386E-04	1.610E-05	1.485E-05
1300 - 1400	3.250E+00	1.589E+00	5.795E-02	5.345E-02	9.029E-04	4.414E-04	1.610E-05	1.485E-05
1400 - 1500	1.718E+00	8.400E-01	3.863E-02	3.563E-02	4.772E-04	2.333E-04	1.073E-05	9.897E-06
1500 - 1600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1600 - 1700	2.032E+00	9.935E-01	3.863E-02	3.563E-02	5.645E-04	2.760E-04	1.073E-05	9.897E-06
1700 - 1800	1.775E+00	8.681E-01	3.863E-02	3.563E-02	4.932E-04	2.411E-04	1.073E-05	9.897E-06
1800 - 1900	4.149E+00	2.028E+00	7.726E-02	7.126E-02	1.153E-03	5.634E-04	2.146E-05	1.979E-05
1900 - 2000	1.193E+00	5.832E-01	1.932E-02	1.782E-02	3.314E-04	1.620E-04	5.365E-06	4.949E-06
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV9_Diesel)

Starting Emission

	Starting Emission Factor (g/trip)																	
NO	8.420E-02	1.516E-01	2.022E-01	2.865E-01	3.539E-01	4.718E-01	6.909E-01	8.594E-01	1.264E+00	1.651E+00	1.854E+00	2.191E+00	2.410E+00	2.528E+00	2.595E+00	2.662E+00	2.696E+00	2.696E+00
NO_2	4.090E-02	7.360E-02	9.810E-02	1.390E-01	1.717E-01	2.290E-01	3.352E-01	4.170E-01	6.133E-01	8.013E-01	8.994E-01	1.063E+00	1.169E+00	1.227E+00	1.259E+00	1.292E+00	1.308E+00	1.308E+00
RSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FSP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Hour	**No. of Cold Starts of HGV9**																	
Sitting Time (min)	**5**	**10**	**20**	**30**	**40**	**50**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**	**600**	**660**	**720**
0000 - 0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0100 - 0200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0200 - 0300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0300 - 0400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0400 - 0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500 - 0600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0600 - 0700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0700 - 0800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0800 - 0900	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
0900 - 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000 - 1100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
1100 - 1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 - 1300	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300 - 1400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400 - 1500	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500 - 1600	0.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600 - 1700	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700 - 1800	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 - 1900	2.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900 - 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000 - 2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100 - 2200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200 - 2300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300 - 2400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Starting Emission (g)			
NO	**NO_2**	**RSP**	**FSP**
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.696E+00	1.308E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.050E+00	1.480E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.696E+00	1.308E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
6.404E-01	3.107E-01	0.000E+00	0.000E+00
1.651E+00	8.013E-01	0.000E+00	0.000E+00
2.342E+00	1.137E+00	0.000E+00	0.000E+00
7.920E-01	3.843E-01	0.000E+00	0.000E+00
2.864E-01	1.390E-01	0.000E+00	0.000E+00
2.022E+00	9.812E-01	0.000E+00	0.000E+00
5.223E-01	2.535E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.651E+00	8.013E-01	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00

Remark:

Number of cold starts were derived based on on-site observations at the carpark and operators' published schedules, while sitting time were obtained based on on-site observations at carpark.

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV9_Diesel)

Cold Idling Emission

Idling Time for Terminating HGV9s =	2	min
Max. Idling Time for Adjusting Starting Emission =	1	min

Hour	HGV9 (Diesel)									HGV9 (Diesel)								
	Frequency	Cold Idling Emission Factor (g/min)				Cold Idling Emission (g)				Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	3.056E-01	1.488E-01	5.410E-04	5.410E-04	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	3.056E-01	1.488E-01	5.410E-04	5.410E-04	2.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	1.255E-01	6.112E-02	1.082E-03	1.082E-03
0900 - 1000	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	3.056E-01	1.488E-01	5.410E-04	5.410E-04	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	1.255E-01	6.112E-02	1.082E-03	1.082E-03
1300 - 1400	1.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	3.056E-01	1.488E-01	5.410E-04	5.410E-04	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	2.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	6.112E-01	2.976E-01	1.082E-03	1.082E-03	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	1.883E-01	9.169E-02	1.623E-03	1.623E-03
1600 - 1700	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	1.255E-01	6.112E-02	1.082E-03	1.082E-03
1700 - 1800	1.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	3.056E-01	1.488E-01	5.410E-04	5.410E-04	2.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	1.255E-01	6.112E-02	1.082E-03	1.082E-03
1800 - 1900	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	1.883E-01	9.169E-02	1.623E-03	1.623E-03
1900 - 2000	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	3.056E-01	1.488E-01	5.410E-04	5.410E-04	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	1.528E-01	7.440E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Average Distance from Starting Place to Carpark Egress =	150	m
Average Spread Distance outside Carpark =	550.0	m

Hour	Idling Emission (g)				Emission for Adjusting Starting Emission (g)				Adjusted Starting Emission Within Carpark (g)				Adjusted Starting Emission Outside Carpark (g)				Starting Emission Rate Outside Carpark (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	3.056E-01	1.488E-01	5.410E-04	5.410E-04	1.528E-01	7.440E-02	2.705E-04	2.705E-04	5.450E-01	2.644E-01	0.000E+00	0.000E+00	1.998E+00	9.695E-01	0.000E+00	0.000E+00	5.551E-04	2.693E-04	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	4.311E-01	2.099E-01	1.623E-03	1.623E-03	2.155E-01	1.050E-01	8.115E-04	8.115E-04	6.074E-01	2.947E-01	0.000E+00	0.000E+00	2.227E+00	1.080E+00	0.000E+00	0.000E+00	6.186E-04	3.001E-04	0.000E+00	0.000E+00
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	3.056E-01	1.488E-01	5.410E-04	5.410E-04	1.528E-01	7.440E-02	2.705E-04	2.705E-04	5.450E-01	2.644E-01	0.000E+00	0.000E+00	1.998E+00	9.695E-01	0.000E+00	0.000E+00	5.551E-04	2.693E-04	0.000E+00	0.000E+00
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	1.255E-01	6.112E-02	1.082E-03	1.082E-03	6.276E-02	3.056E-02	5.410E-04	5.410E-04	1.238E-01	6.003E-02	0.000E+00	0.000E+00	4.539E-01	2.201E-01	0.000E+00	0.000E+00	1.261E-04	6.114E-05	0.000E+00	0.000E+00
1300 - 1400	3.056E-01	1.488E-01	5.410E-04	5.410E-04	1.528E-01	7.440E-02	2.705E-04	2.705E-04	3.211E-01	1.558E-01	0.000E+00	0.000E+00	1.177E+00	5.711E-01	0.000E+00	0.000E+00	3.271E-04	1.586E-04	0.000E+00	0.000E+00
1400 - 1500	6.112E-01	2.976E-01	1.082E-03	1.082E-03	3.056E-01	1.488E-01	5.410E-04	5.410E-04	4.364E-01	2.116E-01	0.000E+00	0.000E+00	1.600E+00	7.760E-01	0.000E+00	0.000E+00	4.445E-04	2.156E-04	0.000E+00	0.000E+00
1500 - 1600	1.883E-01	9.169E-02	1.623E-03	1.623E-03	9.414E-02	4.584E-02	8.115E-04	8.115E-04	1.495E-01	7.253E-02	0.000E+00	0.000E+00	5.483E-01	2.659E-01	0.000E+00	0.000E+00	1.523E-04	7.387E-05	0.000E+00	0.000E+00
1600 - 1700	1.255E-01	6.112E-02	1.082E-03	1.082E-03	6.276E-02	3.056E-02	5.410E-04	5.410E-04	4.792E-02	2.324E-02	0.000E+00	0.000E+00	1.757E-01	8.520E-02	0.000E+00	0.000E+00	4.881E-05	2.367E-05	0.000E+00	0.000E+00
1700 - 1800	4.311E-01	2.099E-01	1.623E-03	1.623E-03	2.155E-01	1.050E-01	8.115E-04	8.115E-04	3.871E-01	1.878E-01	0.000E+00	0.000E+00	1.419E+00	6.885E-01	0.000E+00	0.000E+00	3.943E-04	1.912E-04	0.000E+00	0.000E+00
1800 - 1900	1.883E-01	9.169E-02	1.623E-03	1.623E-03	9.414E-02	4.584E-02	8.115E-04	8.115E-04	9.175E-02	4.450E-02	0.000E+00	0.000E+00	3.364E-01	1.632E-01	0.000E+00	0.000E+00	9.345E-05	4.532E-05	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	3.056E-01	1.488E-01	5.410E-04	5.410E-04	1.528E-01	7.440E-02	2.705E-04	2.705E-04	3.211E-01	1.558E-01	0.000E+00	0.000E+00	1.177E+00	5.711E-01	0.000E+00	0.000E+00	3.271E-04	1.586E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV9)

Running Emission

Average Travelling Distance within Carpark =	300	m
Average Travelling Speed =	10	km/h

Hour	HGV9								
	Frequency	Running Emission Factor (g/km·vehicle)				Running Emission Within Carpark (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	7.815E-01	3.805E-01	2.040E-02	1.875E-02
0700 - 0800	1.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	7.815E-01	3.805E-01	2.040E-02	1.875E-02
0800 - 0900	3.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	2.344E+00	1.142E+00	6.120E-02	5.625E-02
0900 - 1000	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	7.815E-01	3.805E-01	2.040E-02	1.875E-02
1100 - 1200	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	3.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	2.344E+00	1.142E+00	6.120E-02	5.625E-02
1300 - 1400	1.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	7.815E-01	3.805E-01	2.040E-02	1.875E-02
1400 - 1500	2.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	1.563E+00	7.611E-01	4.080E-02	3.750E-02
1500 - 1600	5.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	3.907E+00	1.903E+00	1.020E-01	9.375E-02
1600 - 1700	2.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	1.563E+00	7.611E-01	4.080E-02	3.750E-02
1700 - 1800	3.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	2.344E+00	1.142E+00	6.120E-02	5.625E-02
1800 - 1900	3.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	2.344E+00	1.142E+00	6.120E-02	5.625E-02
1900 - 2000	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	7.815E-01	3.805E-01	2.040E-02	1.875E-02
2100 - 2200	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	2.605E+00	1.268E+00	6.800E-02	6.250E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Idling Emission

Idling Time for Non-terminating HGV9s =	2	min

Hour	HGV9								
	Frequency	Hot Idling Emission Factor (g/min)				Hot Idling Emission (g)			
		NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	1.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	6.276E-02	3.056E-02	5.410E-04	5.410E-04
0800 - 0900	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0900 - 1000	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100 - 1200	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	1.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	6.276E-02	3.056E-02	5.410E-04	5.410E-04
1300 - 1400	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1500 - 1600	2.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	1.255E-01	6.112E-02	1.082E-03	1.082E-03
1600 - 1700	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1700 - 1800	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1800 - 1900	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1900 - 2000	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.00	3.138E-02	1.528E-02	2.705E-04	2.705E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hop Kwan Hung To Parking Lot (合群鴻圖車場) (HGV9)

Total Hourly Emission

	Emission Within Carpark							
Hour	Total Emission (g) (Running + Idling + Starting)				Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.632E+00	7.938E-01	2.094E-02	1.929E-02	4.533E-04	2.205E-04	5.817E-06	5.359E-06
0700 - 0800	8.442E-01	4.111E-01	2.094E-02	1.929E-02	2.345E-04	1.142E-04	5.817E-06	5.359E-06
0800 - 0900	3.383E+00	1.646E+00	6.282E-02	5.787E-02	9.397E-04	4.573E-04	1.745E-05	1.608E-05
0900 - 1000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000 - 1100	1.632E+00	7.938E-01	2.094E-02	1.929E-02	4.533E-04	2.205E-04	5.817E-06	5.359E-06
1100 - 1200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200 - 1300	2.656E+00	1.293E+00	6.282E-02	5.787E-02	7.379E-04	3.593E-04	1.745E-05	1.608E-05
1300 - 1400	1.408E+00	6.851E-01	2.094E-02	1.929E-02	3.912E-04	1.903E-04	5.817E-06	5.359E-06
1400 - 1500	2.611E+00	1.270E+00	4.188E-02	3.858E-02	7.251E-04	3.529E-04	1.163E-05	1.072E-05
1500 - 1600	4.371E+00	2.128E+00	1.047E-01	9.645E-02	1.214E-03	5.911E-04	2.908E-05	2.679E-05
1600 - 1700	1.736E+00	8.455E-01	4.188E-02	3.858E-02	4.823E-04	2.349E-04	1.163E-05	1.072E-05
1700 - 1800	3.163E+00	1.539E+00	6.282E-02	5.787E-02	8.785E-04	4.276E-04	1.745E-05	1.608E-05
1800 - 1900	2.624E+00	1.278E+00	6.282E-02	5.787E-02	7.290E-04	3.550E-04	1.745E-05	1.608E-05
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	1.408E+00	6.851E-01	2.094E-02	1.929E-02	3.912E-04	1.903E-04	5.817E-06	5.359E-06
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Routing of Start Emission outside parking area

Bus Terminus / Carpark	Fuel Type	Source ID	Travel Distance outside Bus Terminus / Carpark (m)	Area (m^2)	% of Flow	Max. Hourly Emission Rate (g/s)				Max. Hourly Emission Rate ($g/m^2/s$)			
						NO	NO2	RSP	FSP	NO	NO2	RSP	FSP
TIH at Proposed Station near Chau Tau	Diesel	**Total**	**550**	**-**	**100%**	**1.997E-03**	**8.152E-04**	**0.000E+00**	**0.000E+00**	**-**	**-**	**-**	**-**
		CTS1	352	5635	90%	1.151E-03	4.700E-04	0.000E+00	0.000E+00	2.0429E-07	8.3410E-08	0.0000E+00	0.0000E+00
		CTS2	175	2795	40%	2.536E-04	1.036E-04	0.000E+00	0.000E+00	9.0753E-08	3.7054E-08	0.0000E+00	0.0000E+00
		CTS3	175	2445	50%	3.170E-04	1.294E-04	0.000E+00	0.000E+00	1.2965E-07	5.2934E-08	0.0000E+00	0.0000E+00
		CTS4	116	1861	10%	4.222E-05	1.724E-05	0.000E+00	0.000E+00	2.2687E-08	9.2633E-09	0.0000E+00	0.0000E+00
		CTS5	411	5750	10%	1.491E-04	6.088E-05	0.000E+00	0.000E+00	2.5929E-08	1.0587E-08	0.0000E+00	0.0000E+00
		CTS6	23	367	100%	8.332E-05	3.402E-05	0.000E+00	0.000E+00	2.2687E-07	9.2632E-08	0.0000E+00	0.0000E+00
PTI in Pang Loon Tei	Diesel	**Total**	**575**	**-**	**100%**	**8.595E-04**	**3.509E-04**	**0.000E+00**	**0.000E+00**	**-**	**-**	**-**	**-**
		PLTS1	262	3664	100%	3.911E-04	1.597E-04	0.000E+00	0.000E+00	1.0677E-07	4.3593E-08	0.0000E+00	0.0000E+00
		PLTS2	38	768	40%	2.296E-05	9.376E-06	0.000E+00	0.000E+00	2.9894E-08	1.2206E-08	0.0000E+00	0.0000E+00
		PLTS3	259	3878	40%	1.546E-04	6.311E-05	0.000E+00	0.000E+00	3.9859E-08	1.6275E-08	0.0000E+00	0.0000E+00
		PLTS4	78	1091	60%	6.987E-05	2.853E-05	0.000E+00	0.000E+00	6.4060E-08	2.6156E-08	0.0000E+00	0.0000E+00
		PLTS5	94	1699	30%	4.234E-05	1.729E-05	0.000E+00	0.000E+00	2.4912E-08	1.0172E-08	0.0000E+00	0.0000E+00
		PLTS6	92	1376	30%	4.114E-05	1.680E-05	0.000E+00	0.000E+00	2.9894E-08	1.2206E-08	0.0000E+00	0.0000E+00
		PLTS7	33	460	30%	1.475E-05	6.020E-06	0.000E+00	0.000E+00	3.2029E-08	1.3078E-08	0.0000E+00	0.0000E+00
		PLTS8	111	1997	30%	4.976E-05	2.032E-05	0.000E+00	0.000E+00	2.4912E-08	1.0171E-08	0.0000E+00	0.0000E+00
		PLTS9	108	1513	30%	4.846E-05	1.979E-05	0.000E+00	0.000E+00	3.2030E-08	1.3078E-08	0.0000E+00	0.0000E+00
		PLTS10	16	229	100%	2.447E-05	9.989E-06	0.000E+00	0.000E+00	1.0677E-07	4.3594E-08	0.0000E+00	0.0000E+00
San Tin TIH	Diesel	**Total**	**450**	**-**	**100%**	**2.210E-03**	**9.024E-04**	**0.000E+00**	**0.000E+00**	**-**	**-**	**-**	**-**
		STS1	75	1200	100%	3.683E-04	1.504E-04	0.000E+00	0.000E+00	3.0688E-07	1.2530E-07	0.0000E+00	0.0000E+00
		STS2	356	4984	10%	1.748E-04	7.138E-05	0.000E+00	0.000E+00	3.5080E-08	1.4323E-08	0.0000E+00	0.0000E+00
		STS3	207	3318	90%	9.166E-04	3.743E-04	0.000E+00	0.000E+00	2.7626E-07	1.1280E-07	0.0000E+00	0.0000E+00
		STS4	100	1594	80%	3.913E-04	1.598E-04	0.000E+00	0.000E+00	2.4550E-07	1.0024E-07	0.0000E+00	0.0000E+00
		STS5	49	638	80%	1.929E-04	7.878E-05	0.000E+00	0.000E+00	3.0223E-07	1.2340E-07	0.0000E+00	0.0000E+00
		STS6	149	2084	10%	7.310E-05	2.985E-05	0.000E+00	0.000E+00	3.5080E-08	1.4323E-08	0.0000E+00	0.0000E+00
		STS7	19	305	100%	9.347E-05	3.816E-05	0.000E+00	0.000E+00	3.0695E-07	1.2533E-07	0.0000E+00	0.0000E+00
Lok Ma Chau Station PTI	Diesel	**Total**	**650**	**-**	**100%**	**1.033E-03**	**4.177E-04**	**0.000E+00**	**0.000E+00**	**-**	**-**	**-**	**-**
		LMCSD1	48	772	100%	7.665E-05	3.100E-05	0.000E+00	0.000E+00	9.930E-08	4.016E-08	0.000E+00	0.000E+00
		LMCSD2	31	616	100%	4.893E-05	1.979E-05	0.000E+00	0.000E+00	7.944E-08	3.213E-08	0.000E+00	0.000E+00
		LMCSD3	466	6060	100%	7.406E-04	2.995E-04	0.000E+00	0.000E+00	1.222E-07	4.943E-08	0.000E+00	0.000E+00
		LMCSD4	105	1363	100%	1.665E-04	6.735E-05	0.000E+00	0.000E+00	1.222E-07	4.943E-08	0.000E+00	0.000E+00
	LPG	**Total**	**100**	**-**	**100%**	**1.062E-04**	**5.326E-07**	**0.000E+00**	**0.000E+00**	**-**	**-**	**-**	**-**
		LMCSL1	48	772	100%	5.121E-05	2.570E-07	0.000E+00	0.000E+00	6.635E-08	3.329E-10	0.000E+00	0.000E+00
		LMCSL2	31	616	100%	3.269E-05	1.640E-07	0.000E+00	0.000E+00	5.308E-08	2.663E-10	0.000E+00	0.000E+00
		LMCSL3	21	272	100%	2.224E-05	1.116E-07	0.000E+00	0.000E+00	8.166E-08	4.097E-10	0.000E+00	0.000E+00
Lok Ma Chau Loop PTI	Diesel	**Total**	**600**	**-**	**100%**	**3.972E-03**	**1.622E-03**	**0.000E+00**	**0.000E+00**	**-**	**-**	**-**	**-**
		LMCLS1	169	2532	100%	1.117E-03	4.562E-04	0.000E+00	0.000E+00	4.413E-07	1.802E-07	0.000E+00	0.000E+00
		LMCLS2	217	3042	100%	1.438E-03	5.873E-04	0.000E+00	0.000E+00	4.728E-07	1.931E-07	0.000E+00	0.000E+00
		LMCLS3	52	830	80%	2.749E-04	1.122E-04	0.000E+00	0.000E+00	3.310E-07	1.351E-07	0.000E+00	0.000E+00
		LMCLS4	42	508	80%	2.240E-04	9.145E-05	0.000E+00	0.000E+00	4.413E-07	1.802E-07	0.000E+00	0.000E+00
		LMCLS5	120	958	80%	6.339E-04	2.588E-04	0.000E+00	0.000E+00	6.619E-07	2.703E-07	0.000E+00	0.000E+00
		LMCLS6	50	1108	20%	6.668E-05	2.723E-05	0.000E+00	0.000E+00	6.018E-08	2.457E-08	0.000E+00	0.000E+00
		LMCLS7	41	1079	20%	5.492E-05	2.243E-05	0.000E+00	0.000E+00	5.092E-08	2.079E-08	0.000E+00	0.000E+00
		LMCLS8	34	1084	20%	4.486E-05	1.832E-05	0.000E+00	0.000E+00	4.137E-08	1.689E-08	0.000E+00	0.000E+00
		LMCLS9	64	1538	20%	8.486E-05	3.465E-05	0.000E+00	0.000E+00	5.516E-08	2.252E-08	0.000E+00	0.000E+00
		LMCLS10	24	433	20%	3.186E-05	1.301E-05	0.000E+00	0.000E+00	7.355E-08	3.003E-08	0.000E+00	0.000E+00
Ma Po Warehouse	Diesel	**Total**	**600**	**-**	**100%**	**7.170E-04**	**3.517E-04**	**0.000E+00**	**0.000E+00**	**-**	**-**	**-**	**-**
		MPS1	144	1722	100%	1.715E-04	8.414E-05	0.000E+00	0.000E+00	9.962E-08	4.887E-08	0.000E+00	0.000E+00
		MPS2	56	1011	100%	6.739E-05	3.306E-05	0.000E+00	0.000E+00	6.664E-08	3.269E-08	0.000E+00	0.000E+00
		MPS3	400	5201	20%	9.562E-05	4.690E-05	0.000E+00	0.000E+00	1.839E-08	9.018E-09	0.000E+00	0.000E+00
		MPS4	400	5201	80%	3.825E-04	1.876E-04	0.000E+00	0.000E+00	7.354E-08	3.607E-08	0.000E+00	0.000E+00
Mega Wheel Warehouse	Diesel	**Total**	**500**	**-**	**100%**	**3.675E-03**	**1.801E-03**	**0.000E+00**	**0.000E+00**	**-**	**-**	**-**	**-**
		MWS1	248	2973	100%	1.822E-03	8.927E-04	0.000E+00	0.000E+00	6.127E-07	3.003E-07	0.000E+00	0.000E+00
		MWS2	56	1011	100%	4.144E-04	2.031E-04	0.000E+00	0.000E+00	4.098E-07	2.008E-07	0.000E+00	0.000E+00
		MWS3	196	2544	20%	2.877E-04	1.410E-04	0.000E+00	0.000E+00	1.131E-07	5.541E-08	0.000E+00	0.000E+00
		MWS4	196	2544	80%	1.151E-03	5.640E-04	0.000E+00	0.000E+00	4.523E-07	2.216E-07	0.000E+00	0.000E+00
Hop Kwan Hung To Parking Lot	Diesel	**Total**	**550**	**-**	**100%**	**1.743E-03**	**8.536E-04**	**0.000E+00**	**0.000E+00**	**-**	**-**	**-**	**-**
		HKHTS1	189	1887	100%	5.980E-04	2.928E-04	0.000E+00	0.000E+00	3.169E-07	1.552E-07	0.000E+00	0.000E+00
		HKHTS2	361	4710	30%	3.435E-04	1.682E-04	0.000E+00	0.000E+00	7.294E-08	3.572E-08	0.000E+00	0.000E+00
		HKHTS3	361	4710	70%	8.016E-04	3.925E-04	0.000E+00	0.000E+00	1.702E-07	8.335E-08	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Emission Inventory for AERMOD Model (Operation Phase – Year 2039)

Bus Terminus / Carpark	Source ID	Type	X	Y	Release Height	Operation Period	Area for PTI / Carpark	No. of Vertices	Max. Hourly Emission Rate			
									NO	NO2	RSP	FSP
			(m)	(m)	(mAG)	(hr)	(for AREAPOLY)	(for AREAPOLY)	($g/m^2/s$)			
Emission inside Parking Area												
TIH at Proposed Station near Chau Tau	CT1	AREAPOLY	826254.69	840208.89	0.00	24	12492.33	4	4.048E-07	1.654E-07	4.358E-09	4.018E-09
PTI in Pang Loon Tei	PLT1	AREAPOLY	826939.40	839160.84	0.00	24	8983.21	4	2.276E-07	9.298E-08	2.496E-09	2.301E-09
San Tin TIH	ST1	AREAPOLY	825502.35	838653.29	0.00	24	22255.82	4	4.574E-07	1.868E-07	4.890E-09	4.503E-09
Lok Ma Chau Station PTI	LMCS1	AREAPOLY	824893.00	841787.87	0.00	24	1882.63	4	5.155E-07	1.906E-07	1.093E-08	1.017E-08
Lok Ma Chau Loop PTI	LMCL1	AREAPOLY	825797.62	841881.34	0.00	24	7420.43	4	8.535E-07	3.486E-07	9.121E-09	8.425E-09
Mai Po Warehouse	MP1	AREAPOLY	824222.20	839630.93	0.00	24	5099.27	9	1.587E-07	7.575E-08	2.651E-09	2.448E-09
Mega Wheel Warehouse	MW1	AREAPOLY	824054.17	839702.44	0.00	24	21609.32	9	2.303E-07	1.065E-07	6.276E-09	5.950E-09
Hop Kwan Hung To Parking Lot	HKHT1	AREAPOLY	824157.70	839292.32	0.00	24	9713.84	9	2.113E-07	9.453E-08	6.141E-09	5.819E-09
Start Emission outside Parking Area												
TIH at Proposed Station near Chau Tau	CTS1	AREAPOLY	826158.67	840237.22	3.91	24	5635.35	6	2.043E-07	8.341E-08	0.000E+00	0.000E+00
	CTS2	AREAPOLY	825696.34	840355.65	3.91	24	2794.65	6	9.075E-08	3.705E-08	0.000E+00	0.000E+00
	CTS3	AREAPOLY	825859.60	840408.08	3.91	24	2445.34	6	1.296E-07	5.293E-08	0.000E+00	0.000E+00
	CTS4	AREAPOLY	826151.28	840223.03	3.91	24	1861.08	4	2.269E-08	9.263E-09	0.000E+00	0.000E+00
	CTS5	AREAPOLY	826321.91	840267.02	3.91	24	5750.08	12	2.593E-08	1.059E-08	0.000E+00	0.000E+00
	CTS6	AREAPOLY	826147.76	840233.58	3.91	24	367.24	4	2.269E-07	9.263E-08	0.000E+00	0.000E+00
PTI in Pang Loon Tei	PLTS1	AREAPOLY	826958.32	839157.34	3.91	24	3663.51	8	1.068E-07	4.359E-08	0.000E+00	0.000E+00
	PLTS2	AREAPOLY	826779.90	839336.18	3.91	24	768.12	4	2.989E-08	1.221E-08	0.000E+00	0.000E+00
	PLTS3	AREAPOLY	826811.90	839342.18	3.91	24	3878.04	10	3.986E-08	1.627E-08	0.000E+00	0.000E+00
	PLTS4	AREAPOLY	826774.08	839342.35	3.91	24	1090.66	4	6.406E-08	2.616E-08	0.000E+00	0.000E+00
	PLTS5	AREAPOLY	826731.27	839404.81	3.91	24	1699.40	4	2.491E-08	1.017E-08	0.000E+00	0.000E+00
	PLTS6	AREAPOLY	826661.71	839479.54	3.91	24	1376.19	4	2.989E-08	1.221E-08	0.000E+00	0.000E+00
	PLTS7	AREAPOLY	826613.49	839403.37	3.91	24	460.36	4	3.203E-08	1.308E-08	0.000E+00	0.000E+00
	PLTS8	AREAPOLY	826731.31	839404.78	3.91	24	1997.28	4	2.491E-08	1.017E-08	0.000E+00	0.000E+00
	PLTS9	AREAPOLY	826648.80	839488.57	3.91	24	1513.11	4	3.203E-08	1.308E-08	0.000E+00	0.000E+00
	PLTS10	AREAPOLY	826949.01	839151.44	3.91	24	229.14	4	1.068E-07	4.359E-08	0.000E+00	0.000E+00
San Tin TIH	STS1	AREAPOLY	825473.63	838641.29	3.91	24	1200.27	4	3.069E-07	1.253E-07	0.000E+00	0.000E+00
	STS2	AREAPOLY	825462.69	838642.71	3.91	24	4983.57	4	3.508E-08	1.432E-08	0.000E+00	0.000E+00
	STS3	AREAPOLY	825307.52	838515.75	3.91	24	3318.01	7	2.763E-07	1.128E-07	0.000E+00	0.000E+00
	STS4	AREAPOLY	825305.40	838514.80	3.91	24	1593.97	4	2.455E-07	1.002E-07	0.000E+00	0.000E+00
	STS5	AREAPOLY	825158.24	838513.27	3.91	24	638.41	4	3.022E-07	1.234E-07	0.000E+00	0.000E+00
	STS6	AREAPOLY	825361.86	838389.07	3.91	24	2083.81	6	3.508E-08	1.432E-08	0.000E+00	0.000E+00
	STS7	AREAPOLY	825534.62	838681.77	3.91	24	304.52	4	3.069E-07	1.253E-07	0.000E+00	0.000E+00
Lok Ma Chau Station PTI	LMCSD1	AREAPOLY	824901.01	841800.04	3.91	24	771.94	4	9.930E-08	4.016E-08	0.000E+00	0.000E+00
	LMCSD2	AREAPOLY	824939.75	841794.93	3.91	24	615.97	4	7.944E-08	3.213E-08	0.000E+00	0.000E+00
	LMCSD3	AREAPOLY	824946.41	841832.82	3.91	24	6059.85	6	1.222E-07	4.943E-08	0.000E+00	0.000E+00
	LMCSD4	AREAPOLY	825396.34	841921.14	3.91	24	1362.57	4	1.222E-07	4.943E-08	0.000E+00	0.000E+00
	LMCSL1	AREAPOLY	824901.01	841800.04	3.91	24	771.94	4	6.635E-08	3.329E-10	0.000E+00	0.000E+00
	LMCSL2	AREAPOLY	824939.75	841794.93	3.91	24	615.97	4	5.308E-08	2.663E-10	0.000E+00	0.000E+00
	LMCSL3	AREAPOLY	824946.41	841832.82	3.91	24	272.41	4	8.166E-08	4.097E-10	0.000E+00	0.000E+00
Lok Ma Chau Loop PTI	LMCLS1	AREAPOLY	825764.76	842046.12	3.91	24	2531.78	4	4.413E-07	1.802E-07	0.000E+00	0.000E+00
	LMCLS2	AREAPOLY	825765.91	842055.70	3.91	24	3042.10	8	4.728E-07	1.931E-07	0.000E+00	0.000E+00
	LMCLS3	AREAPOLY	825645.91	841877.82	3.91	24	830.44	4	3.310E-07	1.351E-07	0.000E+00	0.000E+00
	LMCLS4	AREAPOLY	825637.99	841828.94	3.91	24	507.53	4	4.413E-07	1.802E-07	0.000E+00	0.000E+00
	LMCLS5	AREAPOLY	825615.48	841794.48	3.91	24	957.69	6	6.619E-07	2.703E-07	0.000E+00	0.000E+00
	LMCLS6	AREAPOLY	825658.21	841886.19	3.91	24	1108.14	4	6.018E-08	2.457E-08	0.000E+00	0.000E+00
	LMCLS7	AREAPOLY	825689.07	841848.24	3.91	24	1078.66	4	5.092E-08	2.079E-08	0.000E+00	0.000E+00
	LMCLS8	AREAPOLY	825707.82	841817.88	3.91	24	1084.37	4	4.137E-08	1.689E-08	0.000E+00	0.000E+00
	LMCLS9	AREAPOLY	825719.29	841790.19	3.91	24	1538.42	6	5.516E-08	2.252E-08	0.000E+00	0.000E+00
	LMCLS10	AREAPOLY	825723.44	841733.37	3.91	24	433.14	4	7.355E-08	3.003E-08	0.000E+00	0.000E+00
Ma Po Warehouse	MPS1	AREAPOLY	824308.80	839540.78	3.91	24	1721.82	6	9.962E-08	4.887E-08	0.000E+00	0.000E+00
	MPS2	AREAPOLY	824410.24	839470.26	3.91	24	1011.29	6	6.664E-08	3.269E-08	0.000E+00	0.000E+00
	MPS3	AREAPOLY	824391.30	839419.14	3.91	24	5200.75	12	1.839E-08	9.018E-09	0.000E+00	0.000E+00
	MPS4	AREAPOLY	824392.29	839421.41	3.91	24	5200.77	8	7.354E-08	3.607E-08	0.000E+00	0.000E+00
Mega Wheel Warehouse	MWS1	AREAPOLY	824251.90	839630.42	3.91	24	2973.10	10	6.127E-07	3.003E-07	0.000E+00	0.000E+00
	MWS2	AREAPOLY	824410.24	839470.26	3.91	24	1011.29	6	4.098E-07	2.008E-07	0.000E+00	0.000E+00
	MWS3	AREAPOLY	824391.30	839419.14	3.91	24	2544.49	6	1.131E-07	5.541E-08	0.000E+00	0.000E+00
	MWS4	AREAPOLY	824392.29	839421.41	3.91	24	2544.40	8	4.523E-07	2.216E-07	0.000E+00	0.000E+00
Hop Kwan Hung To Parking Lot	HKHTS1	AREAPOLY	824167.85	839140.50	3.91	24	1886.72	8	3.169E-07	1.552E-07	0.000E+00	0.000E+00
	HKHTS2	AREAPOLY	824312.78	839033.45	3.91	24	4709.62	8	7.294E-08	3.572E-08	0.000E+00	0.000E+00
	HKHTS3	AREAPOLY	824312.67	839033.29	3.91	24	4709.53	12	1.702E-07	8.335E-08	0.000E+00	0.000E+00

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Location of vertices for AREAPOLY

	Coordinate	Source																		
		CT1	PLT1	ST1	LMCS1	LMCL1	MP1	MW1	HKHT1	CTS1	CTS2	CTS3	CTS4	CTS5	CTS6	PLTS1	PLTS2	PLTS3	PLTS4	PLTS5
Vertice 1	X	826254.69	826939.40	825502.35	824893.00	825797.62	824222.20	824054.17	824157.70	826158.67	825696.34	825859.60	826151.28	826321.91	826147.76	826958.32	826779.90	826811.90	826774.08	826731.27
	Y	840208.89	839160.84	838653.29	841787.87	841881.34	839630.93	839702.44	839292.32	840237.22	840355.65	840408.08	840223.03	840267.02	840233.58	839157.34	839336.18	839342.18	839342.35	839404.81
Vertice 2	X	826156.39	827039.16	825622.33	824912.17	825856.47	824257.37	824225.21	824194.53	826151.28	825691.89	825848.71	826158.67	826264.16	826157.68	826897.07	826779.98	826824.79	826731.51	826661.91
	Y	840254.80	839081.32	838769.27	841788.98	841925.66	839631.15	839712.47	839300.69	840223.03	840352.98	840416.88	840237.22	840172.83	840254.28	839207.34	839356.18	839349.85	839407.60	839468.87
Vertice 3	X	826205.11	826984.85	825715.93	824919.51	825917.18	824269.63	824230.31	824210.76	826010.83	825683.67	825884.63	826261.88	826252.22	826172.11	826823.48	826818.39	826851.66	826743.24	826674.12
	Y	840359.12	839022.39	838672.83	841691.01	841851.32	839618.04	839676.58	839314.12	840296.21	840366.71	840461.31	840183.58	840180.14	840247.36	839267.35	839356.02	839304.75	839415.25	839482.09
Vertice 4	X	826303.41	826911.70	825590.69	824900.41	825854.77	824286.79	824240.46	824242.08	825849.65	825690.33	825931.57	826254.50	826311.07	826162.19	826774.09	826818.30	826882.52	826785.80	826743.48
	Y	840313.22	839074.29	838557.97	841689.92	841801.96	839588.66	839651.86	839298.47	840405.86	840370.53	840567.05	840169.39	840275.98	840226.67	839342.33	839336.02	839273.26	839350.00	839418.04
Vertice 5	X	-	-	-	-	-	824294.84	824257.37	824213.01	825858.65	825851.81	825944.37	-	826392.46	-	826785.79	-	826973.50	-	-
	Y	-	-	-	-	-	839573.72	839631.15	839243.46	840419.09	840420.12	840561.37	-	840352.54	-	839350.02	-	839197.11	-	-
Vertice 6	X	-	-	-	-	-	824303.11	824222.20	824172.03	826018.94	825856.50	825896.72	-	826423.14	-	826834.10	-	827005.43	-	-
	Y	-	-	-	-	-	839555.62	839630.93	839143.23	840310.02	840404.83	840454.12	-	840377.84	-	839276.60	-	839172.18	-	-
Vertice 7	X	-	-	-	-	-	824310.78	824207.62	824133.25	-	-	-	-	826526.74	-	826905.91	-	826996.20	-	-
	Y	-	-	-	-	-	839546.44	839589.43	839155.38	-	-	-	-	840440.40	-	839218.20	-	839160.36	-	-
Vertice 8	X	-	-	-	-	-	824265.57	824016.07	824129.70	-	-	-	-	826555.27	-	826967.17	-	826963.97	-	-
	Y	-	-	-	-	-	839547.66	839619.89	839217.81	-	-	-	-	840450.90	-	839168.18	-	839185.53	-	-
Vertice 9	X	-	-	-	-	-	824207.62	824003.21	824139.38	-	-	-	-	826560.11	-	-	-	826996.20	-	-
	Y	-	-	-	-	-	839589.43	839654.83	839248.38	-	-	-	-	840437.76	-	-	-	839160.36	-	-
Vertice 10	X	-	-	-	-	-	-	-	-	-	-	-	-	826532.21	-	-	-	827005.43	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	840427.49	-	-	-	839172.18	-	-
Vertice 11	X	-	-	-	-	-	-	-	-	-	-	-	-	826431.65	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	840366.71	-	-	-	-	-	-
Vertice 12	X	-	-	-	-	-	-	-	-	-	-	-	-	826401.89	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	840342.18	-	-	-	-	-	-
Vertice 13	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 14	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 15	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 16	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 17	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 18	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 19	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 20	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Location of vertices for AREAPOLY

		Source																		
	PLTS6	PLTS7	PLTS8	PLTS9	PLTS10	STS1	STS2	STS3	STS4	STS5	STS6	STS7	LMCSD1	LMCSD2	LMCSD3	LMCSD4	LMCSL1	LMCSL2	LMCSL3	LMCLS1
Vertice 1	826661.71	826613.49	826731.31	826648.80	826949.01	825473.63	825462.69	825307.52	825305.40	825158.24	825361.86	825534.62	824901.01	824939.75	824946.41	825396.34	824901.01	824939.75	824946.41	825764.76
	839479.54	839403.37	839404.78	839488.57	839151.44	838641.29	838642.71	838515.75	838514.80	838513.27	838389.07	838681.77	841800.04	841794.93	841832.82	841921.14	841800.04	841794.93	841832.82	842046.12
Vertice 2	826674.32	826623.22	826649.32	826685.53	826956.53	825462.65	825473.58	825299.47	825208.05	825207.06	825297.42	825518.46	824949.12	824937.42	825182.04	825409.06	824949.12	824937.42	824967.13	825776.73
	839471.42	839393.31	839479.54	839590.22	839165.97	838652.92	838651.51	838529.53	838493.65	838507.93	838519.52	838691.82	841803.66	841825.64	841867.83	841923.82	841803.66	841825.64	841835.98	842055.17
Vertice 3	826624.66	826599.58	826661.45	826698.70	826968.96	825517.19	825249.86	825368.39	825204.65	825205.64	825309.98	825526.91	824950.33	824957.36	825400.98	825430.72	824950.33	824957.36	824969.08	825878.58
	839394.28	839370.45	839492.84	839585.46	839159.54	838704.43	838928.39	838569.57	838509.28	838495.01	838525.71	838705.40	841787.71	841827.15	841928.75	841821.27	841787.71	841827.15	841823.12	841920.58
Vertice 4	826612.05	826589.85	826743.44	826661.97	826961.44	825528.17	825238.98	825462.84	825302.00	825156.82	825373.96	825543.07	824902.22	824959.70	825404.43	825418.00	824902.22	824959.70	824948.37	825866.62
	839402.40	839380.52	839418.08	839483.81	839145.00	838692.79	838919.59	838653.10	838530.43	838500.35	838396.16	838695.35	841784.08	841796.44	841916.21	841818.59	841784.08	841796.44	841819.97	841911.53
Vertice 5	-	-	-	-	-	-	-	825473.44	-	-	825375.84	-	-	-	825185.80	-	-	-	-	-
	-	-	-	-	-	-	-	838641.11	-	-	838393.50	-	-	-	841856.13	-	-	-	-	-
Vertice 6	-	-	-	-	-	-	-	825378.23	-	-	825364.40	-	-	-	824948.37	-	-	-	-	-
	-	-	-	-	-	-	-	838556.92	-	-	838385.42	-	-	-	841819.97	-	-	-	-	-
Vertice 7	-	-	-	-	-	-	-	825377.11	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	838556.13	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Vertice 12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Vertice 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Vertice 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Location of vertices for AREAPOLY

	Source																			
	LMCLS2	LMCLS3	LMCLS4	LMCLS5	LMCLS6	LMCLS7	LMCLS8	LMCLS9	LMCLS10	MPS1	MPS2	MPS3	MPS4	MWS1	MWS2	MWS3	MWS4	HKHTS1	HKHTS2	HKHTS3
Vertice 1	825765.91	825645.91	825637.99	825615.48	825658.21	825689.07	825707.82	825719.29	825723.44	824308.80	824410.24	824391.30	824392.29	824251.90	824410.24	824391.30	824392.29	824167.85	824312.78	824312.67
	842055.70	841877.82	841828.94	841794.48	841886.19	841848.24	841817.88	841790.19	841733.37	839540.78	839470.26	839419.14	839421.41	839630.42	839470.26	839419.14	839421.41	839140.50	839033.45	839033.29
Vertice 2	825775.58	825661.55	825647.67	825620.22	825704.22	825710.43	825738.96	825743.07	825743.44	824312.76	824424.41	824403.98	824411.95	824260.51	824424.41	824403.98	824411.95	824176.22	824323.46	824370.51
	842045.58	841874.46	841821.85	841788.04	841865.70	841863.06	841825.24	841786.97	841719.97	839552.11	839459.15	839416.29	839449.71	839638.78	839459.15	839416.29	839449.71	839145.97	839026.05	839122.24
Vertice 3	825689.42	825650.65	825622.69	825577.15	825695.28	825734.07	825746.75	825738.97	825733.42	824390.81	824402.58	824396.87	824444.06	824276.42	824402.58	824396.87	824444.06	824201.27	824246.60	824380.30
	841963.25	841823.71	841787.72	841756.44	841845.60	841828.97	841792.26	841756.68	841705.02	839524.26	839431.30	839384.74	839473.46	839622.31	839431.30	839384.74	839473.46	839107.58	838915.24	839145.31
Vertice 4	825672.02	825635.01	825613.01	825517.77	825649.26	825712.71	825715.61	825730.03	825713.43	824422.57	824406.17	824403.35	824747.38	824314.95	824406.17	824402.37	824559.17	824229.01	824177.62	824390.33
	841928.79	841827.07	841794.81	841725.61	841866.09	841814.15	841784.90	841722.80	841718.41	839467.62	839420.57	839194.12	839601.77	839551.34	839420.57	839223.11	839522.19	839085.68	838805.71	839194.45
Vertice 5	825660.58	-	-	825514.08	-	-	-	825706.84	-	824412.08	824389.10	824392.52	824752.44	824390.81	824389.10	824389.38	824564.24	824320.57	824139.43	824389.38
	841874.69	-	-	841732.71	-	-	-	841728.98	-	839461.79	839414.86	839140.83	839589.80	839524.26	839414.86	839222.67	839510.22	839034.11	838717.91	839222.67
Vertice 6	825646.88	-	-	825573.19	-	-	-	825715.29	-	824382.50	824383.64	824381.72	824450.55	824422.57	824383.64	824384.01	824450.55	824315.66	824127.51	824384.35
	841877.59	-	-	841763.39	-	-	-	841760.65	-	839515.04	839434.56	839115.63	839462.15	839467.62	839434.56	839386.79	839462.15	839025.39	838723.09	839370.37
Vertice 7	825658.51	-	-	-	-	-	-	-	-	-	-	824328.58	824421.35	824412.08	-	-	824421.35	824223.11	824166.22	824397.35
	841932.58	-	-	-	-	-	-	-	-	-	-	839033.92	839440.60	839461.79	-	-	839440.60	839077.59	838812.01	839370.81
Vertice 8	825678.09	-	-	-	-	-	-	-	-	-	-	824317.68	824402.98	824382.50	-	-	824402.98	824193.84	824235.83	824402.37
	841971.64	-	-	-	-	-	-	-	-	-	-	839041.00	839414.02	839515.04	-	-	839414.02	839100.79	838922.53	839223.11
Vertice 9	-	-	-	-	-	-	-	-	-	-	-	824370.51	-	824306.55	-	-	-	-	-	824403.35
	-	-	-	-	-	-	-	-	-	-	-	839122.24	-	839542.10	-	-	-	-	-	839194.12
Vertice 10	-	-	-	-	-	-	-	-	-	-	-	824380.30	-	824266.71	-	-	-	-	-	824392.91
	-	-	-	-	-	-	-	-	-	-	-	839145.31	-	839615.17	-	-	-	-	-	839142.07
Vertice 11	-	-	-	-	-	-	-	-	-	-	-	824390.33	-	-	-	-	-	-	-	824381.72
	-	-	-	-	-	-	-	-	-	-	-	839194.45	-	-	-	-	-	-	-	839115.63
Vertice 12	-	-	-	-	-	-	-	-	-	-	-	824384.01	-	-	-	-	-	-	-	824323.57
	-	-	-	-	-	-	-	-	-	-	-	839386.79	-	-	-	-	-	-	-	839026.21
Vertice 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Vertice 16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Vertice 19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vertice 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hourly Profile for Emission inside Parking Area

TIH at Proposed Station near Chau Tau

Hour	Emission Within TIH – Total Emission Rate (g/s) NO	NO_2	RSP	FSP
0000 - 0100	2.975E-04	1.215E-04	3.203E-06	2.953E-06
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	2.975E-04	1.215E-04	3.203E-06	2.953E-06
0600 - 0700	1.487E-03	6.075E-04	1.601E-05	1.476E-05
0700 - 0800	4.760E-03	1.944E-03	5.124E-05	4.724E-05
0800 - 0900	4.760E-03	1.944E-03	5.124E-05	4.724E-05
0900 - 1000	2.380E-03	9.721E-04	2.562E-05	2.362E-05
1000 - 1100	1.785E-03	7.291E-04	1.922E-05	1.772E-05
1100 - 1200	1.487E-03	6.075E-04	1.601E-05	1.476E-05
1200 - 1300	1.785E-03	7.291E-04	1.922E-05	1.772E-05
1300 - 1400	1.487E-03	6.075E-04	1.601E-05	1.476E-05
1400 - 1500	1.785E-03	7.291E-04	1.922E-05	1.772E-05
1500 - 1600	2.380E-03	9.721E-04	2.562E-05	2.362E-05
1600 - 1700	2.677E-03	1.094E-03	2.882E-05	2.657E-05
1700 - 1800	2.975E-03	1.215E-03	3.203E-05	2.953E-05
1800 - 1900	5.057E-03	2.066E-03	5.445E-05	5.020E-05
1900 - 2000	2.975E-03	1.215E-03	3.203E-05	2.953E-05
2000 - 2100	2.082E-03	8.506E-04	2.242E-05	2.067E-05
2100 - 2200	1.487E-03	6.075E-04	1.601E-05	1.476E-05
2200 - 2300	1.190E-03	4.860E-04	1.281E-05	1.181E-05
2300 - 2400	8.925E-04	3.645E-04	9.608E-06	8.858E-06
	5.057E-03	2.066E-03	5.445E-05	5.020E-05

Hourly Profile NO	NO_2	RSP	FSP
0.059	0.059	0.059	0.059
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.059	0.059	0.059	0.059
0.294	0.294	0.294	0.294
0.941	0.941	0.941	0.941
0.941	0.941	0.941	0.941
0.471	0.471	0.471	0.471
0.353	0.353	0.353	0.353
0.294	0.294	0.294	0.294
0.353	0.353	0.353	0.353
0.294	0.294	0.294	0.294
0.353	0.353	0.353	0.353
0.471	0.471	0.471	0.471
0.529	0.529	0.529	0.529
0.588	0.588	0.588	0.588
1.000	1.000	1.000	1.000
0.588	0.588	0.588	0.588
0.412	0.412	0.412	0.412
0.294	0.294	0.294	0.294
0.235	0.235	0.235	0.235
0.176	0.176	0.176	0.176

PTI in Pang Loon Tei

Hour	Emission Within PTI – Total Emission Rate (g/s) NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	5.843E-04	2.387E-04	6.406E-06	5.906E-06
0700 - 0800	2.045E-03	8.353E-04	2.242E-05	2.067E-05
0800 - 0900	2.045E-03	8.353E-04	2.242E-05	2.067E-05
0900 - 1000	1.169E-03	4.773E-04	1.281E-05	1.181E-05
1000 - 1100	8.764E-04	3.580E-04	9.608E-06	8.858E-06
1100 - 1200	5.843E-04	2.387E-04	6.406E-06	5.906E-06
1200 - 1300	8.764E-04	3.580E-04	9.608E-06	8.858E-06
1300 - 1400	5.843E-04	2.387E-04	6.406E-06	5.906E-06
1400 - 1500	5.843E-04	2.387E-04	6.406E-06	5.906E-06
1500 - 1600	8.764E-04	3.580E-04	9.608E-06	8.858E-06
1600 - 1700	1.169E-03	4.773E-04	1.281E-05	1.181E-05
1700 - 1800	1.461E-03	5.966E-04	1.601E-05	1.476E-05
1800 - 1900	2.045E-03	8.353E-04	2.242E-05	2.067E-05
1900 - 2000	1.169E-03	4.773E-04	1.281E-05	1.181E-05
2000 - 2100	8.764E-04	3.580E-04	9.608E-06	8.858E-06
2100 - 2200	5.843E-04	2.387E-04	6.406E-06	5.906E-06
2200 - 2300	5.843E-04	2.387E-04	6.406E-06	5.906E-06
2300 - 2400	2.921E-04	1.193E-04	3.203E-06	2.953E-06
	2.045E-03	8.353E-04	2.242E-05	2.067E-05

Hourly Profile NO	NO_2	RSP	FSP
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.286	0.286	0.286	0.286
1.000	1.000	1.000	1.000
1.000	1.000	1.000	1.000
0.571	0.571	0.571	0.571
0.429	0.429	0.429	0.429
0.286	0.286	0.286	0.286
0.429	0.429	0.429	0.429
0.286	0.286	0.286	0.286
0.286	0.286	0.286	0.286
0.429	0.429	0.429	0.429
0.571	0.571	0.571	0.571
0.714	0.714	0.714	0.714
1.000	1.000	1.000	1.000
0.571	0.571	0.571	0.571
0.429	0.429	0.429	0.429
0.286	0.286	0.286	0.286
0.286	0.286	0.286	0.286
0.143	0.143	0.143	0.143

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hourly Profile for Emission inside Parking Area

San Tin TIH

Hour	Emission Within TIH			
	Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	4.426E-04	1.808E-04	4.732E-06	4.357E-06
0100 - 0200	4.426E-04	1.808E-04	4.732E-06	4.357E-06
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	4.426E-04	1.808E-04	4.732E-06	4.357E-06
0600 - 0700	3.098E-03	1.265E-03	3.312E-05	3.050E-05
0700 - 0800	9.294E-03	3.796E-03	9.937E-05	9.150E-05
0800 - 0900	9.737E-03	3.977E-03	1.041E-04	9.585E-05
0900 - 1000	4.869E-03	1.989E-03	5.205E-05	4.793E-05
1000 - 1100	3.983E-03	1.627E-03	4.259E-05	3.921E-05
1100 - 1200	3.098E-03	1.265E-03	3.312E-05	3.050E-05
1200 - 1300	3.541E-03	1.446E-03	3.786E-05	3.486E-05
1300 - 1400	3.098E-03	1.265E-03	3.312E-05	3.050E-05
1400 - 1500	3.541E-03	1.446E-03	3.786E-05	3.486E-05
1500 - 1600	4.869E-03	1.989E-03	5.205E-05	4.793E-05
1600 - 1700	5.311E-03	2.169E-03	5.678E-05	5.228E-05
1700 - 1800	6.639E-03	2.712E-03	7.098E-05	6.535E-05
1800 - 1900	1.018E-02	4.158E-03	1.088E-04	1.002E-04
1900 - 2000	6.196E-03	2.531E-03	6.625E-05	6.100E-05
2000 - 2100	3.983E-03	1.627E-03	4.259E-05	3.921E-05
2100 - 2200	3.098E-03	1.265E-03	3.312E-05	3.050E-05
2200 - 2300	2.213E-03	9.039E-04	2.366E-05	2.178E-05
2300 - 2400	1.328E-03	5.423E-04	1.420E-05	1.307E-05
	1.018E-02	4.158E-03	1.088E-04	1.002E-04

Hourly Profile			
NO	NO_2	RSP	FSP
0.043	0.043	0.043	0.043
0.043	0.043	0.043	0.043
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.043	0.043	0.043	0.043
0.304	0.304	0.304	0.304
0.913	0.913	0.913	0.913
0.957	0.957	0.957	0.957
0.478	0.478	0.478	0.478
0.391	0.391	0.391	0.391
0.304	0.304	0.304	0.304
0.348	0.348	0.348	0.348
0.304	0.304	0.304	0.304
0.348	0.348	0.348	0.348
0.478	0.478	0.478	0.478
0.522	0.522	0.522	0.522
0.652	0.652	0.652	0.652
1.000	1.000	1.000	1.000
0.609	0.609	0.609	0.609
0.391	0.391	0.391	0.391
0.304	0.304	0.304	0.304
0.217	0.217	0.217	0.217
0.130	0.130	0.130	0.130

Lok Ma Chau Station PTI

Hour	Emission Within PTI			
	Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	3.361E-04	1.232E-04	7.426E-06	6.909E-06
0700 - 0800	9.325E-04	3.480E-04	1.888E-05	1.756E-05
0800 - 0900	9.705E-04	3.588E-04	2.058E-05	1.915E-05
0900 - 1000	4.852E-04	1.794E-04	1.029E-05	9.573E-06
1000 - 1100	3.361E-04	1.232E-04	7.426E-06	6.909E-06
1100 - 1200	3.361E-04	1.232E-04	7.426E-06	6.909E-06
1200 - 1300	3.361E-04	1.232E-04	7.426E-06	6.909E-06
1300 - 1400	3.361E-04	1.232E-04	7.426E-06	6.909E-06
1400 - 1500	3.361E-04	1.232E-04	7.426E-06	6.909E-06
1500 - 1600	4.852E-04	1.794E-04	1.029E-05	9.573E-06
1600 - 1700	4.852E-04	1.794E-04	1.029E-05	9.573E-06
1700 - 1800	6.343E-04	2.356E-04	1.315E-05	1.224E-05
1800 - 1900	9.705E-04	3.588E-04	2.058E-05	1.915E-05
1900 - 2000	6.343E-04	2.356E-04	1.315E-05	1.224E-05
2000 - 2100	3.361E-04	1.232E-04	7.426E-06	6.909E-06
2100 - 2200	3.361E-04	1.232E-04	7.426E-06	6.909E-06
2200 - 2300	1.871E-04	6.700E-05	4.563E-06	4.246E-06
2300 - 2400	1.491E-04	5.619E-05	2.863E-06	2.663E-06
	9.705E-04	3.588E-04	2.058E-05	1.915E-05

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.346	0.343	0.361	0.361
0.961	0.970	0.917	0.917
1.000	1.000	1.000	1.000
0.500	0.500	0.500	0.500
0.346	0.343	0.361	0.361
0.346	0.343	0.361	0.361
0.346	0.343	0.361	0.361
0.346	0.343	0.361	0.361
0.346	0.343	0.361	0.361
0.500	0.500	0.500	0.500
0.500	0.500	0.500	0.500
0.654	0.657	0.639	0.639
1.000	1.000	1.000	1.000
0.654	0.657	0.639	0.639
0.346	0.343	0.361	0.361
0.346	0.343	0.361	0.361
0.193	0.187	0.222	0.222
0.154	0.157	0.139	0.139

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hourly Profile for Emission inside Parking Area

Lok Ma Chau Loop PTI

Hour	Emission Within PTI – Total Emission Rate (g/s) NO	NO_2	RSP	FSP
0000 - 0100	4.086E-04	1.669E-04	4.367E-06	4.033E-06
0100 - 0200	2.043E-04	8.345E-05	2.183E-06	2.017E-06
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	4.086E-04	1.669E-04	4.367E-06	4.033E-06
0600 - 0700	2.043E-03	8.345E-04	2.183E-05	2.017E-05
0700 - 0800	5.925E-03	2.420E-03	6.332E-05	5.848E-05
0800 - 0900	6.129E-03	2.503E-03	6.550E-05	6.050E-05
0900 - 1000	3.269E-03	1.335E-03	3.493E-05	3.227E-05
1000 - 1100	2.452E-03	1.001E-03	2.620E-05	2.420E-05
1100 - 1200	2.043E-03	8.345E-04	2.183E-05	2.017E-05
1200 - 1300	2.247E-03	9.179E-04	2.402E-05	2.218E-05
1300 - 1400	2.043E-03	8.345E-04	2.183E-05	2.017E-05
1400 - 1500	2.043E-03	8.345E-04	2.183E-05	2.017E-05
1500 - 1600	3.065E-03	1.252E-03	3.275E-05	3.025E-05
1600 - 1700	3.473E-03	1.419E-03	3.712E-05	3.428E-05
1700 - 1800	4.290E-03	1.752E-03	4.585E-05	4.235E-05
1800 - 1900	6.333E-03	2.587E-03	6.768E-05	6.252E-05
1900 - 2000	3.882E-03	1.586E-03	4.148E-05	3.832E-05
2000 - 2100	2.452E-03	1.001E-03	2.620E-05	2.420E-05
2100 - 2200	2.043E-03	8.345E-04	2.183E-05	2.017E-05
2200 - 2300	1.430E-03	5.841E-04	1.528E-05	1.412E-05
2300 - 2400	1.022E-03	4.172E-04	1.092E-05	1.008E-05
	6.333E-03	2.587E-03	6.768E-05	6.252E-05

Hourly Profile NO	NO_2	RSP	FSP
0.065	0.065	0.065	0.065
0.032	0.032	0.032	0.032
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.065	0.065	0.065	0.065
0.323	0.323	0.323	0.323
0.935	0.935	0.935	0.935
0.968	0.968	0.968	0.968
0.516	0.516	0.516	0.516
0.387	0.387	0.387	0.387
0.323	0.323	0.323	0.323
0.355	0.355	0.355	0.355
0.323	0.323	0.323	0.323
0.323	0.323	0.323	0.323
0.484	0.484	0.484	0.484
0.548	0.548	0.548	0.548
0.677	0.677	0.677	0.677
1.000	1.000	1.000	1.000
0.613	0.613	0.613	0.613
0.387	0.387	0.387	0.387
0.323	0.323	0.323	0.323
0.226	0.226	0.226	0.226
0.161	0.161	0.161	0.161

Mai Po Warehouse

Hour	Emission Within Carpark – Total Emission Rate (g/s) NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	3.556E-04	9.128E-05	8.308E-06	7.936E-06
0900 - 1000	6.594E-04	2.624E-04	9.877E-06	9.377E-06
1000 - 1100	1.689E-04	8.225E-05	3.928E-06	3.622E-06
1100 - 1200	5.301E-04	1.615E-04	1.224E-05	1.157E-05
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	3.125E-04	9.349E-05	6.317E-06	5.845E-06
1500 - 1600	8.092E-04	3.862E-04	1.352E-05	1.248E-05
1600 - 1700	3.754E-04	1.296E-04	5.730E-06	5.292E-06
1700 - 1800	1.359E-04	6.088E-05	3.489E-06	3.223E-06
1800 - 1900	1.797E-04	7.746E-05	7.748E-06	7.157E-06
1900 - 2000	1.976E-05	1.081E-06	9.544E-07	8.881E-07
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	1.723E-04	8.387E-05	3.928E-06	3.622E-06
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	8.092E-04	3.862E-04	1.352E-05	1.248E-05

Hourly Profile NO	NO_2	RSP	FSP
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.439	0.236	0.615	0.636
0.815	0.679	0.731	0.751
0.209	0.213	0.291	0.290
0.655	0.418	0.905	0.927
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.386	0.242	0.467	0.468
1.000	1.000	1.000	1.000
0.464	0.336	0.424	0.424
0.168	0.158	0.258	0.258
0.222	0.201	0.573	0.573
0.024	0.003	0.071	0.071
0.000	0.000	0.000	0.000
0.213	0.217	0.291	0.290
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hourly Profile for Emission inside Parking Area

Mega Wheel Warehouse

Hour	Emission Within Carpark – Total Emission Rate (g/s) NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.129E-03	5.997E-04	4.020E-05	3.812E-05
0700 - 0800	1.961E-03	9.115E-04	3.106E-05	2.862E-05
0800 - 0900	4.977E-03	2.302E-03	8.058E-05	7.524E-05
0900 - 1000	3.247E-03	1.337E-03	4.824E-05	4.444E-05
1000 - 1100	2.848E-03	1.055E-03	6.025E-05	5.654E-05
1100 - 1200	1.185E-03	3.280E-04	3.867E-05	3.662E-05
1200 - 1300	2.685E-03	9.773E-04	8.116E-05	7.734E-05
1300 - 1400	3.495E-03	1.013E-03	1.050E-04	1.004E-04
1400 - 1500	4.923E-03	1.945E-03	1.061E-04	9.984E-05
1500 - 1600	4.836E-03	2.141E-03	1.040E-04	9.573E-05
1600 - 1700	2.999E-03	1.124E-03	9.075E-05	8.568E-05
1700 - 1800	3.544E-03	1.235E-03	8.568E-05	8.104E-05
1800 - 1900	4.245E-03	1.279E-03	1.356E-04	1.286E-04
1900 - 2000	5.029E-04	1.962E-05	2.257E-05	2.182E-05
2000 - 2100	1.899E-03	6.817E-04	4.040E-05	3.732E-05
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	4.977E-03	2.302E-03	1.356E-04	1.286E-04

Hourly Profile NO	NO_2	RSP	FSP
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.428	0.261	0.296	0.297
0.394	0.396	0.229	0.223
1.000	1.000	0.594	0.585
0.653	0.581	0.356	0.346
0.572	0.458	0.444	0.440
0.238	0.142	0.285	0.285
0.540	0.425	0.598	0.602
0.702	0.440	0.774	0.781
0.989	0.845	0.782	0.777
0.972	0.930	0.767	0.745
0.603	0.488	0.669	0.666
0.712	0.537	0.632	0.630
0.853	0.556	1.000	1.000
0.101	0.009	0.166	0.170
0.382	0.296	0.298	0.290
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000

Hop Kwan Hung To Parking Lot

Hour	Emission Within Carpark – Total Emission Rate (g/s) NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	8.354E-04	2.356E-04	1.594E-05	1.510E-05
0700 - 0800	7.787E-04	3.625E-04	1.174E-05	1.083E-05
0800 - 0900	1.795E-03	8.271E-04	2.882E-05	2.695E-05
0900 - 1000	1.422E-03	5.709E-04	2.051E-05	1.891E-05
1000 - 1100	1.164E-03	4.410E-04	2.438E-05	2.287E-05
1100 - 1200	5.088E-04	1.428E-04	1.588E-05	1.501E-05
1200 - 1300	1.081E-03	3.756E-04	3.310E-05	3.167E-05
1300 - 1400	1.306E-03	3.951E-04	3.842E-05	3.661E-05
1400 - 1500	2.002E-03	8.021E-04	4.175E-05	3.927E-05
1500 - 1600	2.053E-03	9.183E-04	4.381E-05	4.037E-05
1600 - 1700	1.161E-03	4.322E-04	3.468E-05	3.275E-05
1700 - 1800	1.374E-03	4.796E-04	3.242E-05	3.068E-05
1800 - 1900	1.881E-03	5.529E-04	5.966E-05	5.652E-05
1900 - 2000	2.085E-04	7.917E-06	9.142E-06	8.807E-06
2000 - 2100	7.496E-04	2.689E-04	1.677E-05	1.551E-05
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	2.053E-03	9.183E-04	5.966E-05	5.652E-05

Hourly Profile NO	NO_2	RSP	FSP
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.407	0.257	0.267	0.267
0.379	0.395	0.197	0.192
0.874	0.901	0.483	0.477
0.693	0.622	0.344	0.334
0.567	0.480	0.409	0.405
0.248	0.156	0.266	0.266
0.526	0.409	0.555	0.560
0.636	0.430	0.644	0.648
0.975	0.874	0.700	0.695
1.000	1.000	0.734	0.714
0.565	0.471	0.581	0.579
0.669	0.522	0.543	0.543
0.916	0.602	1.000	1.000
0.102	0.009	0.153	0.156
0.365	0.293	0.281	0.274
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hourly Profile for Start Emission outside Parking Area

TIH at Proposed Station near Chau Tau

Hour	Emission Outside TIH - Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	1.174E-04	4.795E-05	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	1.174E-04	4.795E-05	0.000E+00	0.000E+00
0600 - 0700	5.872E-04	2.398E-04	0.000E+00	0.000E+00
0700 - 0800	1.879E-03	7.672E-04	0.000E+00	0.000E+00
0800 - 0900	1.879E-03	7.672E-04	0.000E+00	0.000E+00
0900 - 1000	9.395E-04	3.836E-04	0.000E+00	0.000E+00
1000 - 1100	7.046E-04	2.877E-04	0.000E+00	0.000E+00
1100 - 1200	5.872E-04	2.398E-04	0.000E+00	0.000E+00
1200 - 1300	7.046E-04	2.877E-04	0.000E+00	0.000E+00
1300 - 1400	5.872E-04	2.398E-04	0.000E+00	0.000E+00
1400 - 1500	7.046E-04	2.877E-04	0.000E+00	0.000E+00
1500 - 1600	9.395E-04	3.836E-04	0.000E+00	0.000E+00
1600 - 1700	1.057E-03	4.316E-04	0.000E+00	0.000E+00
1700 - 1800	1.174E-03	4.795E-04	0.000E+00	0.000E+00
1800 - 1900	1.997E-03	8.152E-04	0.000E+00	0.000E+00
1900 - 2000	1.174E-03	4.795E-04	0.000E+00	0.000E+00
2000 - 2100	8.221E-04	3.357E-04	0.000E+00	0.000E+00
2100 - 2200	5.872E-04	2.398E-04	0.000E+00	0.000E+00
2200 - 2300	4.698E-04	1.918E-04	0.000E+00	0.000E+00
2300 - 2400	3.523E-04	1.439E-04	0.000E+00	0.000E+00
	1.997E-03	8.152E-04	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0.059	0.059		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.059	0.059		
0.294	0.294		
0.941	0.941		
0.941	0.941		
0.471	0.471		
0.353	0.353		
0.294	0.294		
0.353	0.353		
0.294	0.294		
0.353	0.353		
0.471	0.471		
0.529	0.529		
0.588	0.588		
1.000	1.000		
0.588	0.588		
0.412	0.412		
0.294	0.294		
0.235	0.235		
0.176	0.176		

PTI in Pang Loon Tei

Hour	Emission Outside PTI - Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.456E-04	1.003E-04	0.000E+00	0.000E+00
0700 - 0800	8.595E-04	3.509E-04	0.000E+00	0.000E+00
0800 - 0900	8.595E-04	3.509E-04	0.000E+00	0.000E+00
0900 - 1000	4.911E-04	2.005E-04	0.000E+00	0.000E+00
1000 - 1100	3.683E-04	1.504E-04	0.000E+00	0.000E+00
1100 - 1200	2.456E-04	1.003E-04	0.000E+00	0.000E+00
1200 - 1300	3.683E-04	1.504E-04	0.000E+00	0.000E+00
1300 - 1400	2.456E-04	1.003E-04	0.000E+00	0.000E+00
1400 - 1500	2.456E-04	1.003E-04	0.000E+00	0.000E+00
1500 - 1600	3.683E-04	1.504E-04	0.000E+00	0.000E+00
1600 - 1700	4.911E-04	2.005E-04	0.000E+00	0.000E+00
1700 - 1800	6.139E-04	2.507E-04	0.000E+00	0.000E+00
1800 - 1900	8.595E-04	3.509E-04	0.000E+00	0.000E+00
1900 - 2000	4.911E-04	2.005E-04	0.000E+00	0.000E+00
2000 - 2100	3.683E-04	1.504E-04	0.000E+00	0.000E+00
2100 - 2200	2.456E-04	1.003E-04	0.000E+00	0.000E+00
2200 - 2300	2.456E-04	1.003E-04	0.000E+00	0.000E+00
2300 - 2400	1.228E-04	5.013E-05	0.000E+00	0.000E+00
	8.595E-04	3.509E-04	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.286	0.286		
1.000	1.000		
1.000	1.000		
0.571	0.571		
0.429	0.429		
0.286	0.286		
0.429	0.429		
0.286	0.286		
0.286	0.286		
0.429	0.429		
0.571	0.571		
0.714	0.714		
1.000	1.000		
0.571	0.571		
0.429	0.429		
0.286	0.286		
0.286	0.286		
0.143	0.143		

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hourly Profile for Start Emission outside Parking Area

San Tin TIH

Hour	Emission Outside TIH – Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	9.609E-05	3.923E-05	0.000E+00	0.000E+00
0100 - 0200	9.609E-05	3.923E-05	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	9.609E-05	3.923E-05	0.000E+00	0.000E+00
0600 - 0700	6.726E-04	2.746E-04	0.000E+00	0.000E+00
0700 - 0800	2.018E-03	8.239E-04	0.000E+00	0.000E+00
0800 - 0900	2.114E-03	8.631E-04	0.000E+00	0.000E+00
0900 - 1000	1.057E-03	4.316E-04	0.000E+00	0.000E+00
1000 - 1100	8.648E-04	3.531E-04	0.000E+00	0.000E+00
1100 - 1200	6.726E-04	2.746E-04	0.000E+00	0.000E+00
1200 - 1300	7.687E-04	3.139E-04	0.000E+00	0.000E+00
1300 - 1400	6.726E-04	2.746E-04	0.000E+00	0.000E+00
1400 - 1500	7.687E-04	3.139E-04	0.000E+00	0.000E+00
1500 - 1600	1.057E-03	4.316E-04	0.000E+00	0.000E+00
1600 - 1700	1.153E-03	4.708E-04	0.000E+00	0.000E+00
1700 - 1800	1.441E-03	5.885E-04	0.000E+00	0.000E+00
1800 - 1900	2.210E-03	9.024E-04	0.000E+00	0.000E+00
1900 - 2000	1.345E-03	5.493E-04	0.000E+00	0.000E+00
2000 - 2100	8.648E-04	3.531E-04	0.000E+00	0.000E+00
2100 - 2200	6.726E-04	2.746E-04	0.000E+00	0.000E+00
2200 - 2300	4.804E-04	1.962E-04	0.000E+00	0.000E+00
2300 - 2400	2.883E-04	1.177E-04	0.000E+00	0.000E+00
	2.210E-03	9.024E-04	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0.043	0.043		
0.043	0.043		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.043	0.043		
0.304	0.304		
0.913	0.913		
0.957	0.957		
0.478	0.478		
0.391	0.391		
0.304	0.304		
0.348	0.348		
0.304	0.304		
0.348	0.348		
0.478	0.478		
0.522	0.522		
0.652	0.652		
1.000	1.000		
0.609	0.609		
0.391	0.391		
0.304	0.304		
0.217	0.217		
0.130	0.130		

Lok Ma Chau Station PTI (FBDD and Minibus Diesel)

Hour	Emission Outside PTI – Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	3.526E-04	1.425E-04	0.000E+00	0.000E+00
0700 - 0800	1.008E-03	4.080E-04	0.000E+00	0.000E+00
0800 - 0900	1.033E-03	4.177E-04	0.000E+00	0.000E+00
0900 - 1000	5.164E-04	2.088E-04	0.000E+00	0.000E+00
1000 - 1100	3.526E-04	1.425E-04	0.000E+00	0.000E+00
1100 - 1200	3.526E-04	1.425E-04	0.000E+00	0.000E+00
1200 - 1300	3.526E-04	1.425E-04	0.000E+00	0.000E+00
1300 - 1400	3.526E-04	1.425E-04	0.000E+00	0.000E+00
1400 - 1500	3.526E-04	1.425E-04	0.000E+00	0.000E+00
1500 - 1600	5.164E-04	2.088E-04	0.000E+00	0.000E+00
1600 - 1700	5.164E-04	2.088E-04	0.000E+00	0.000E+00
1700 - 1800	6.801E-04	2.752E-04	0.000E+00	0.000E+00
1800 - 1900	1.033E-03	4.177E-04	0.000E+00	0.000E+00
1900 - 2000	6.801E-04	2.752E-04	0.000E+00	0.000E+00
2000 - 2100	3.526E-04	1.425E-04	0.000E+00	0.000E+00
2100 - 2200	3.526E-04	1.425E-04	0.000E+00	0.000E+00
2200 - 2300	1.888E-04	7.609E-05	0.000E+00	0.000E+00
2300 - 2400	1.638E-04	6.638E-05	0.000E+00	0.000E+00
	1.033E-03	4.177E-04	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.341	0.341		
0.976	0.977		
1.000	1.000		
0.500	0.500		
0.341	0.341		
0.341	0.341		
0.341	0.341		
0.341	0.341		
0.341	0.341		
0.500	0.500		
0.500	0.500		
0.659	0.659		
1.000	1.000		
0.659	0.659		
0.341	0.341		
0.341	0.341		
0.183	0.182		
0.159	0.159		

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hourly Profile for Start Emission outside Parking Area

Lok Ma Chau Station PTI (Minibus LPG)

Hour	Emission Outside PTI Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	3.981E-05	1.997E-07	0.000E+00	0.000E+00
0700 - 0800	9.288E-05	4.660E-07	0.000E+00	0.000E+00
0800 - 0900	1.062E-04	5.326E-07	0.000E+00	0.000E+00
0900 - 1000	5.308E-05	2.663E-07	0.000E+00	0.000E+00
1000 - 1100	3.981E-05	1.997E-07	0.000E+00	0.000E+00
1100 - 1200	3.981E-05	1.997E-07	0.000E+00	0.000E+00
1200 - 1300	3.981E-05	1.997E-07	0.000E+00	0.000E+00
1300 - 1400	3.981E-05	1.997E-07	0.000E+00	0.000E+00
1400 - 1500	3.981E-05	1.997E-07	0.000E+00	0.000E+00
1500 - 1600	5.308E-05	2.663E-07	0.000E+00	0.000E+00
1600 - 1700	5.308E-05	2.663E-07	0.000E+00	0.000E+00
1700 - 1800	6.635E-05	3.329E-07	0.000E+00	0.000E+00
1800 - 1900	1.062E-04	5.326E-07	0.000E+00	0.000E+00
1900 - 2000	6.635E-05	3.329E-07	0.000E+00	0.000E+00
2000 - 2100	3.981E-05	1.997E-07	0.000E+00	0.000E+00
2100 - 2200	3.981E-05	1.997E-07	0.000E+00	0.000E+00
2200 - 2300	2.654E-05	1.332E-07	0.000E+00	0.000E+00
2300 - 2400	1.327E-05	6.658E-08	0.000E+00	0.000E+00
	1.062E-04	5.326E-07	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.375	0.375		
0.875	0.875		
1.000	1.000		
0.500	0.500		
0.375	0.375		
0.375	0.375		
0.375	0.375		
0.375	0.375		
0.375	0.375		
0.500	0.500		
0.500	0.500		
0.625	0.625		
1.000	1.000		
0.625	0.625		
0.375	0.375		
0.375	0.375		
0.250	0.250		
0.125	0.125		

Lok Ma Chau Loop PTI

Hour	Emission Outside PTI Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	2.562E-04	1.046E-04	0.000E+00	0.000E+00
0100 - 0200	1.281E-04	5.231E-05	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	2.562E-04	1.046E-04	0.000E+00	0.000E+00
0600 - 0700	1.281E-03	5.231E-04	0.000E+00	0.000E+00
0700 - 0800	3.715E-03	1.517E-03	0.000E+00	0.000E+00
0800 - 0900	3.844E-03	1.569E-03	0.000E+00	0.000E+00
0900 - 1000	2.050E-03	8.370E-04	0.000E+00	0.000E+00
1000 - 1100	1.537E-03	6.277E-04	0.000E+00	0.000E+00
1100 - 1200	1.281E-03	5.231E-04	0.000E+00	0.000E+00
1200 - 1300	1.409E-03	5.754E-04	0.000E+00	0.000E+00
1300 - 1400	1.281E-03	5.231E-04	0.000E+00	0.000E+00
1400 - 1500	1.281E-03	5.231E-04	0.000E+00	0.000E+00
1500 - 1600	1.922E-03	7.847E-04	0.000E+00	0.000E+00
1600 - 1700	2.178E-03	8.893E-04	0.000E+00	0.000E+00
1700 - 1800	2.690E-03	1.099E-03	0.000E+00	0.000E+00
1800 - 1900	3.972E-03	1.622E-03	0.000E+00	0.000E+00
1900 - 2000	2.434E-03	9.939E-04	0.000E+00	0.000E+00
2000 - 2100	1.537E-03	6.277E-04	0.000E+00	0.000E+00
2100 - 2200	1.281E-03	5.231E-04	0.000E+00	0.000E+00
2200 - 2300	8.968E-04	3.662E-04	0.000E+00	0.000E+00
2300 - 2400	6.406E-04	2.616E-04	0.000E+00	0.000E+00
	3.972E-03	1.622E-03	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0.065	0.065		
0.032	0.032		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.065	0.065		
0.323	0.323		
0.935	0.935		
0.968	0.968		
0.516	0.516		
0.387	0.387		
0.323	0.323		
0.355	0.355		
0.323	0.323		
0.323	0.323		
0.484	0.484		
0.548	0.548		
0.677	0.677		
1.000	1.000		
0.613	0.613		
0.387	0.387		
0.323	0.323		
0.226	0.226		
0.161	0.161		

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hourly Profile for Start Emission outside Parking Area

Mai Po Warehouse

Hour	Emission Outside Carpark - Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0700 - 0800	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0800 - 0900	1.064E-04	5.180E-05	0.000E+00	0.000E+00
0900 - 1000	7.170E-04	3.517E-04	0.000E+00	0.000E+00
1000 - 1100	4.067E-05	1.972E-05	0.000E+00	0.000E+00
1100 - 1200	1.689E-04	7.990E-05	0.000E+00	0.000E+00
1200 - 1300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1300 - 1400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1400 - 1500	1.256E-04	6.027E-05	0.000E+00	0.000E+00
1500 - 1600	6.507E-04	3.181E-04	0.000E+00	0.000E+00
1600 - 1700	1.281E-04	6.209E-05	0.000E+00	0.000E+00
1700 - 1800	6.636E-05	3.039E-05	0.000E+00	0.000E+00
1800 - 1900	7.585E-05	3.735E-05	0.000E+00	0.000E+00
1900 - 2000	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2000 - 2100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2100 - 2200	6.074E-05	2.946E-05	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	7.170E-04	3.517E-04	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.148	0.147		
1.000	1.000		
0.057	0.056		
0.236	0.227		
0.000	0.000		
0.000	0.000		
0.175	0.171		
0.908	0.904		
0.179	0.177		
0.093	0.086		
0.106	0.106		
0.000	0.000		
0.000	0.000		
0.085	0.084		
0.000	0.000		
0.000	0.000		

Mega Wheel Warehouse

Hour	Emission Outside Carpark - Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	2.015E-03	9.800E-04	0.000E+00	0.000E+00
0700 - 0800	1.580E-03	7.189E-04	0.000E+00	0.000E+00
0800 - 0900	3.675E-03	1.801E-03	0.000E+00	0.000E+00
0900 - 1000	2.168E-03	1.065E-03	0.000E+00	0.000E+00
1000 - 1100	1.516E-03	7.235E-04	0.000E+00	0.000E+00
1100 - 1200	2.276E-04	1.095E-04	0.000E+00	0.000E+00
1200 - 1300	2.523E-04	1.224E-04	0.000E+00	0.000E+00
1300 - 1400	1.577E-03	7.542E-04	0.000E+00	0.000E+00
1400 - 1500	2.174E-03	1.064E-03	0.000E+00	0.000E+00
1500 - 1600	1.013E-03	4.440E-04	0.000E+00	0.000E+00
1600 - 1700	4.583E-04	2.237E-04	0.000E+00	0.000E+00
1700 - 1800	9.799E-04	4.723E-04	0.000E+00	0.000E+00
1800 - 1900	8.926E-04	4.357E-04	0.000E+00	0.000E+00
1900 - 2000	2.131E-04	1.038E-04	0.000E+00	0.000E+00
2000 - 2100	1.195E-03	5.220E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	3.675E-03	1.801E-03	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.548	0.544		
0.430	0.399		
1.000	1.000		
0.590	0.591		
0.413	0.402		
0.062	0.061		
0.069	0.068		
0.429	0.419		
0.592	0.591		
0.276	0.247		
0.125	0.124		
0.267	0.262		
0.243	0.242		
0.058	0.058		
0.325	0.290		
0.000	0.000		
0.000	0.000		
0.000	0.000		

Appendix 3.6 Calculation of Emissions Associated with Transport Interchange Hub and Public Transport Interchange

Year 2039

Hourly Profile for Start Emission outside Parking Area

Hop Kwan Hung To Parking Lot

Hour	Emission Outside Carpark Total Emission Rate (g/s)			
	NO	NO_2	RSP	FSP
0000 - 0100	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0100 - 0200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0200 - 0300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0300 - 0400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0400 - 0500	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0500 - 0600	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0600 - 0700	1.108E-03	5.390E-04	0.000E+00	0.000E+00
0700 - 0800	8.689E-04	3.954E-04	0.000E+00	0.000E+00
0800 - 0900	1.743E-03	8.536E-04	0.000E+00	0.000E+00
0900 - 1000	1.213E-03	5.957E-04	0.000E+00	0.000E+00
1000 - 1100	8.636E-04	4.125E-04	0.000E+00	0.000E+00
1100 - 1200	1.278E-04	6.126E-05	0.000E+00	0.000E+00
1200 - 1300	1.388E-04	6.730E-05	0.000E+00	0.000E+00
1300 - 1400	8.088E-04	3.863E-04	0.000E+00	0.000E+00
1400 - 1500	1.225E-03	5.997E-04	0.000E+00	0.000E+00
1500 - 1600	5.639E-04	2.476E-04	0.000E+00	0.000E+00
1600 - 1700	2.520E-04	1.230E-04	0.000E+00	0.000E+00
1700 - 1800	5.390E-04	2.597E-04	0.000E+00	0.000E+00
1800 - 1900	5.736E-04	2.799E-04	0.000E+00	0.000E+00
1900 - 2000	1.172E-04	5.710E-05	0.000E+00	0.000E+00
2000 - 2100	6.573E-04	2.871E-04	0.000E+00	0.000E+00
2100 - 2200	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2200 - 2300	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2300 - 2400	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	1.743E-03	8.536E-04	0.000E+00	0.000E+00

Hourly Profile			
NO	NO_2	RSP	FSP
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.000	0.000		
0.636	0.631		
0.499	0.463		
1.000	1.000		
0.696	0.698		
0.495	0.483		
0.073	0.072		
0.080	0.079		
0.464	0.453		
0.703	0.703		
0.324	0.290		
0.145	0.144		
0.309	0.304		
0.329	0.328		
0.067	0.067		
0.377	0.336		
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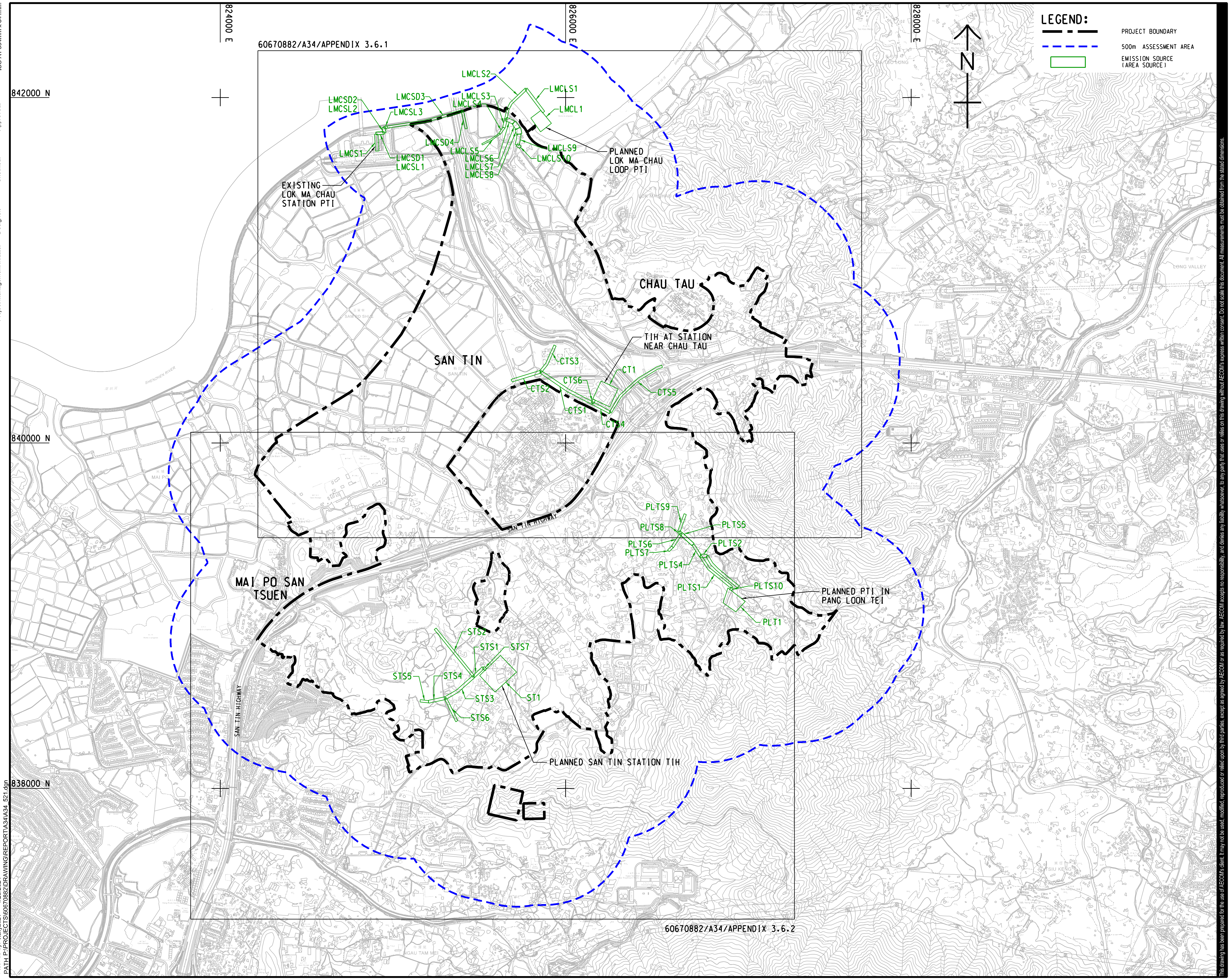
0.000	0.000		
0.000	0.000		



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FIRST PHASE DEVELOPMENT OF THE NEW TERRITORIES NORTH – SAN TIN / LOK MA CHAU DEVELOPMENT NODE – INVESTIGATION

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SCALE: A3 1 : 20000

DIMENSION UNIT: METRES

KEY PLAN

PROJECT NO.: 60670882

AGREEMENT NO.: CE 20/2021

SHEET TITLE

LOCATIONS OF EMISSION SOURCES ASSOCIATED WITH PTIs, TIHs

SHEET NUMBER

60670882/A34/Appendix 3.6

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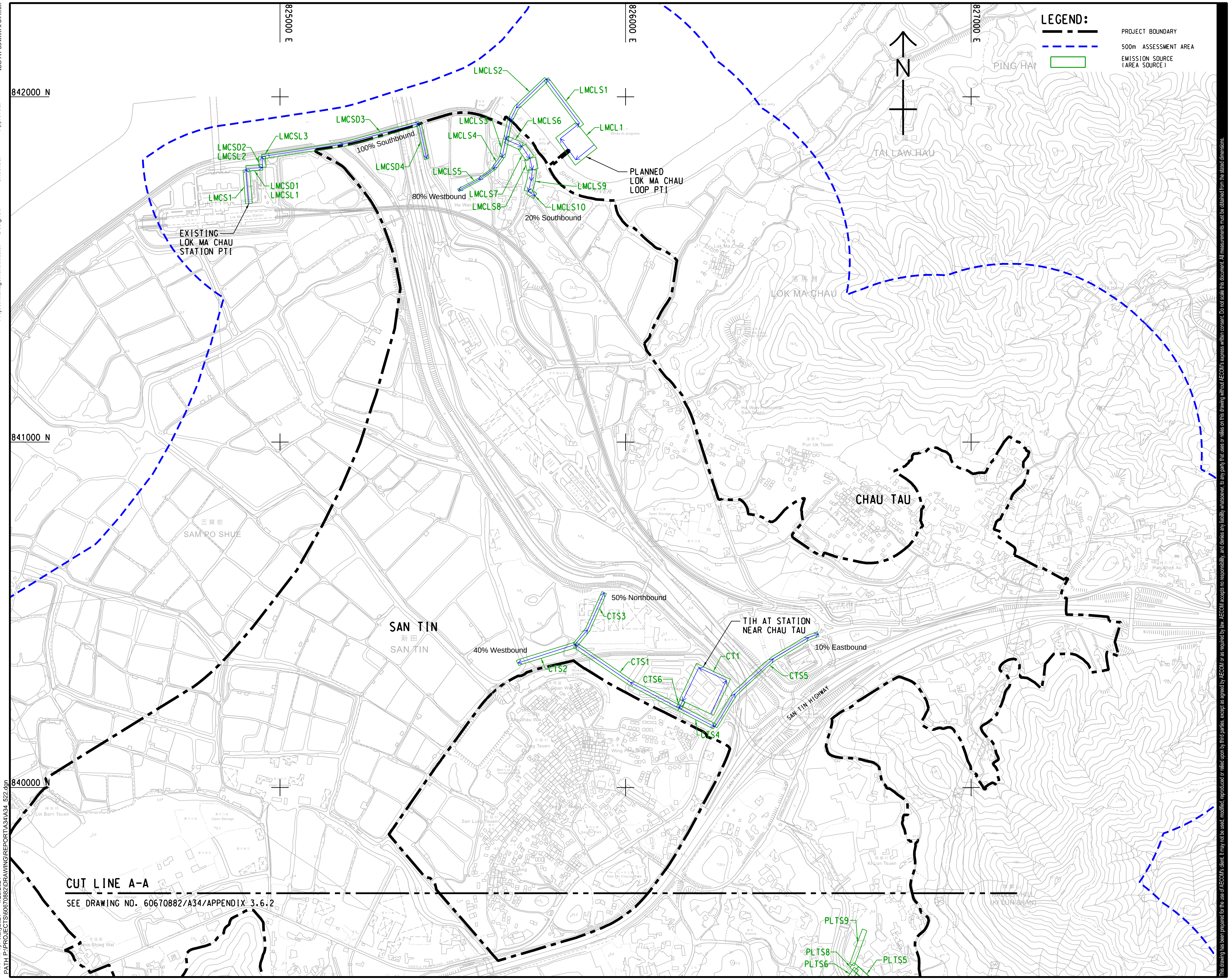

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STATUS
階段

SCALE
比例

A3 1 : 10000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

PROJECT NO.
項目編號

60670882

AGREEMENT NO.
協議編號

CE 20/2021

SHEET TITLE
圖紙名稱

LOCATIONS OF EMISSION SOURCES ASSOCIATED WITH PTIs, TIHs

SHEEET 1 OF 2

SHEET NUMBER
圖紙編號

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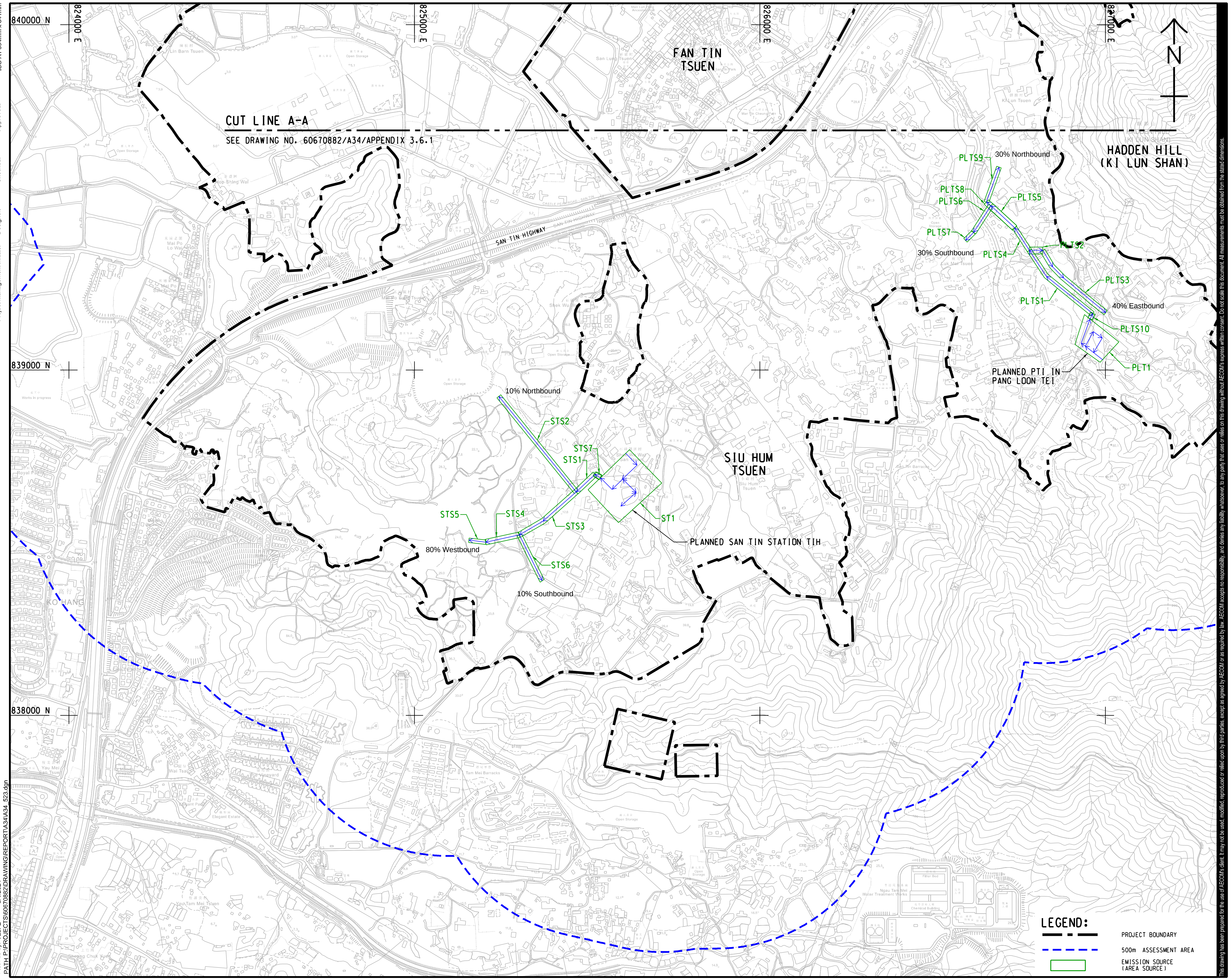

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STATUS 階段

SCALE 比例: A3 1 : 10000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖

PROJECT NO. 項目編號: 60670882

AGREEMENT NO. 協議編號: CE 20/2021

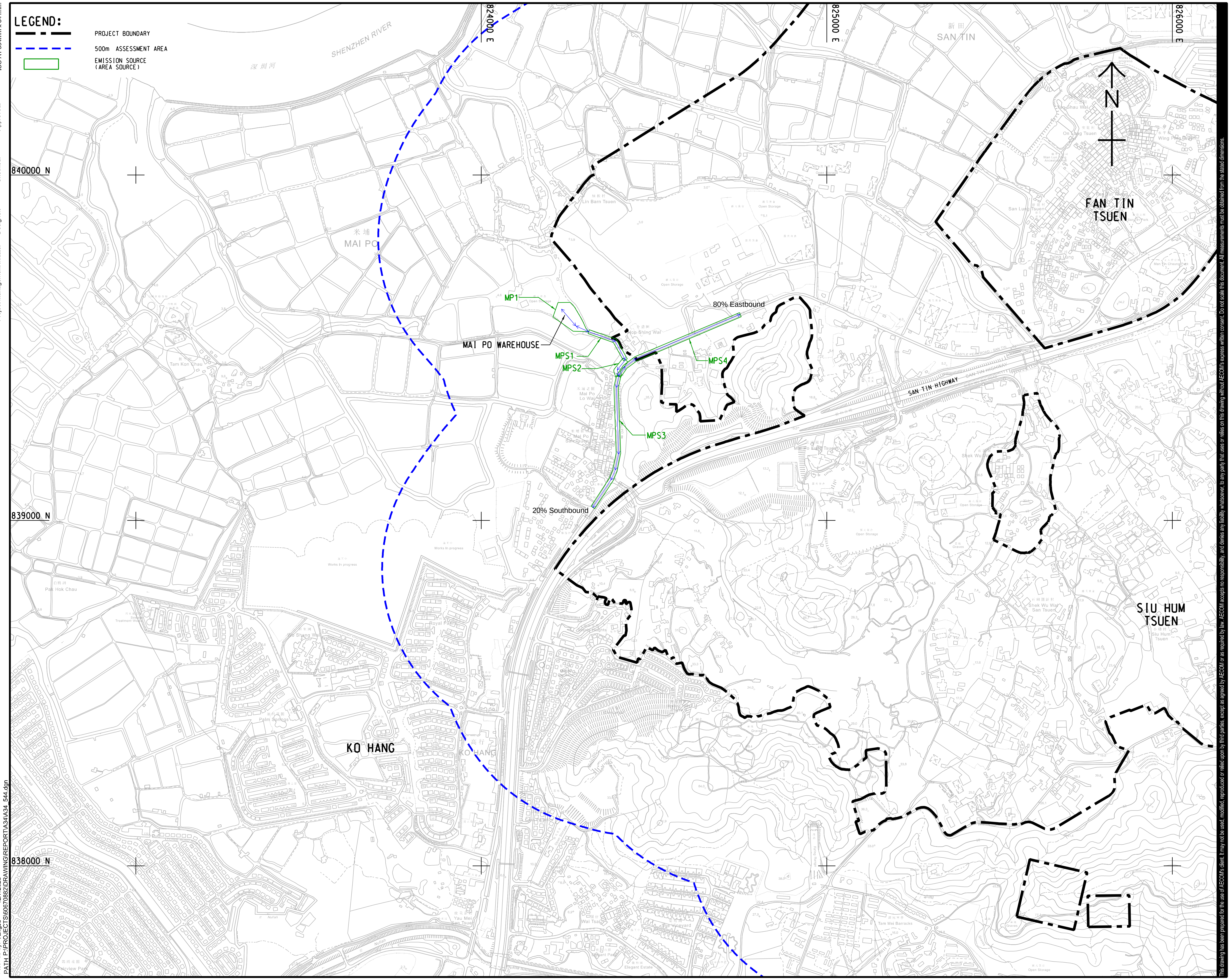
SHEET TITLE 圖紙名稱

LOCATIONS OF EMISSION SOURCES ASSOCIATED WITH PTIs, TIHs

SHEEET 2 OF 2

SHEET NUMBER 圖紙編號

60670882/A34/Appendix 3.6.2



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STATUS 階段

SCALE 比例: A3 1 : 10000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖

PROJECT NO. 項目編號: 60670882

AGREEMENT NO. 協議編號: CE 20/2021

SHEET TITLE 圖紙名稱

LOCATIONS OF EMISSION SOURCES ASSOCIATED WITH LOGISTICS FACILITIES

SHEET NUMBER 圖紙編號

60670882/A34/Appendix 3.6.3

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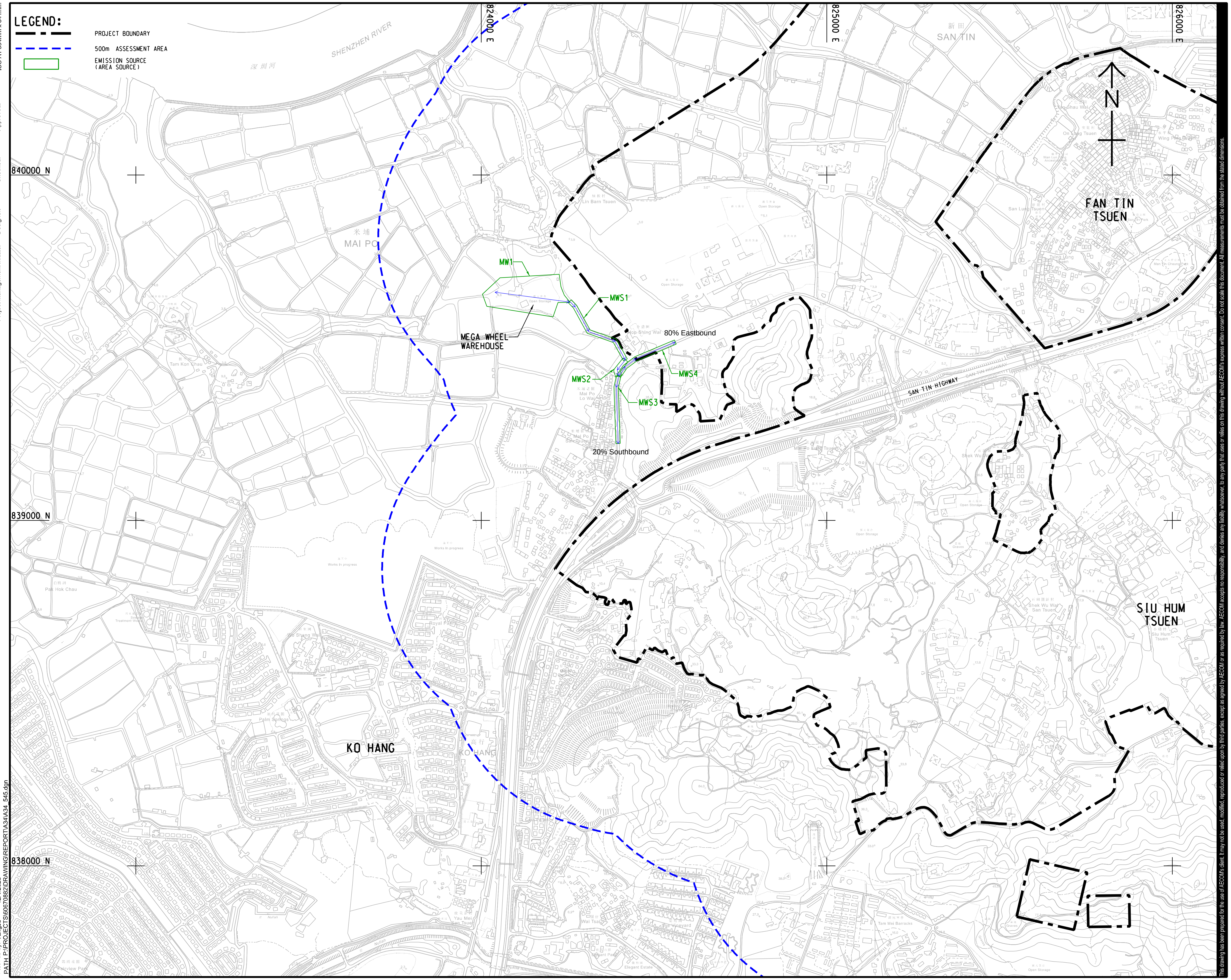

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FIRST PHASE DEVELOPMENT OF THE NEW TERRITORIES NORTH – SAN TIN / LOK MA CHAU DEVELOPMENT NODE – INVESTIGATION

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I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

STATUS 階段

SCALE 比例	DIMENSION UNIT 尺寸單位
A3 1 : 10000	METRES

KEY PLAN 索引圖

PROJECT NO. 項目編號	AGREEMENT NO. 協議編號
60670882	CE 20/2021

SHEET TITLE 圖紙名稱

LOCATIONS OF EMISSION SOURCES ASSOCIATED WITH LOGISTICS FACILITIES

SHEET NUMBER 圖紙編號

60670882/A34/Appendix 3.6.4

ISO A1 594mm x 841mm

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Checked:

Designer:

Project Management Initials:

Plot File by: YangJ8 12/1/2023

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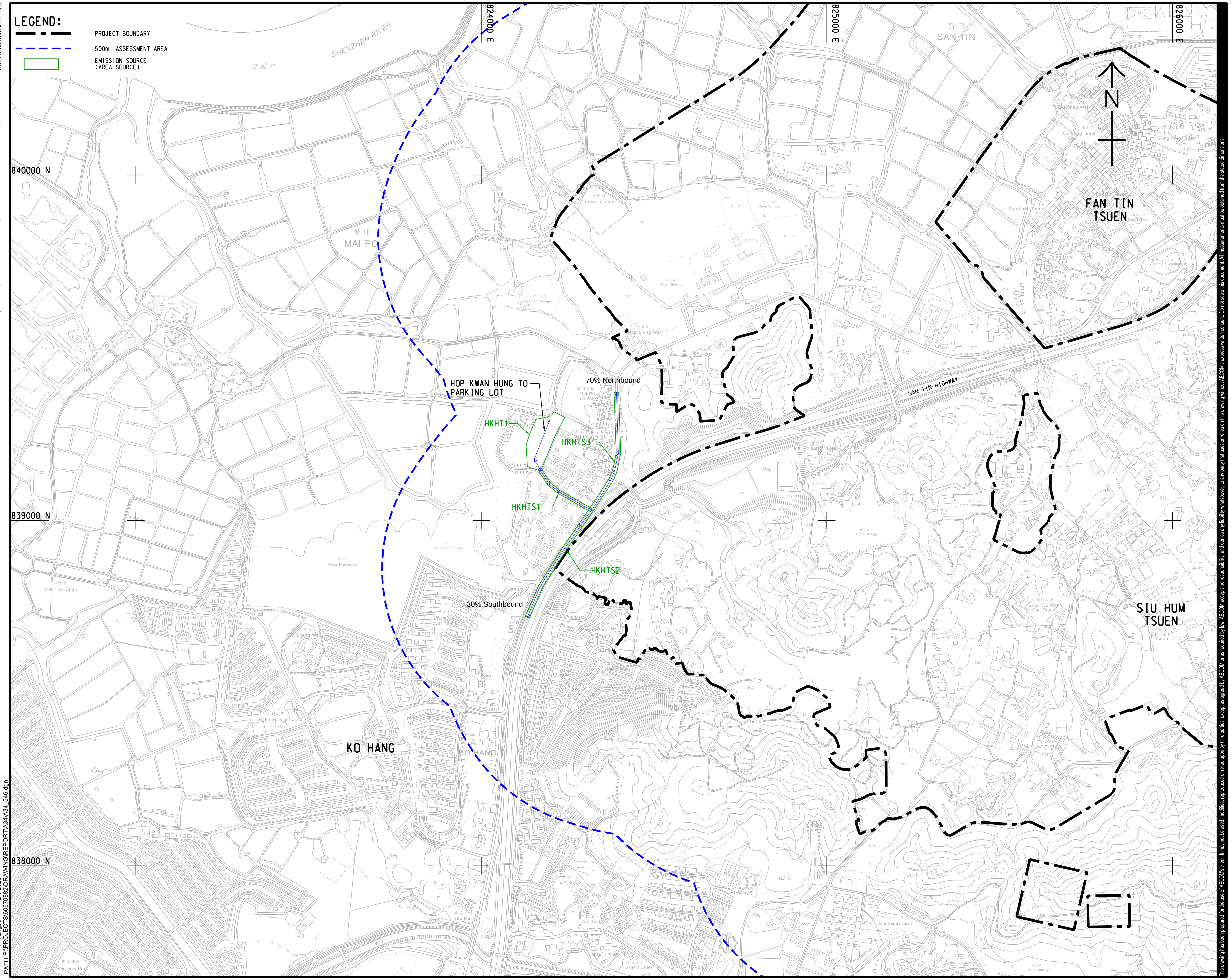

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FIRST PHASE DEVELOPMENT OF THE NEW TERRITORIES NORTH – SAN TIN / LOK MA CHAU DEVELOPMENT NODE – INVESTIGATION

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I/R	DATE	DESCRIPTION	CHK.

STATUS

SCALE: A3 1 : 10000

DIMENSION UNIT: METRES

KEY PLAN

PROJECT NO.: 60670882

AGREEMENT NO.: CE 20/2021

SHEET TITLE

LOCATIONS OF EMISSION SOURCES ASSOCIATED WITH LOGISTICS FACILITIES

SHEET NUMBER

60670882/A34/Appendix 3.6.5

ISO A1 594mm x 841mm
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Designer:
Project Management Initials:
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