EMFAC-HK

Using the Program

Objectives

- Install EMFAC-HK v 2.1 software
- Step by step tutorial to demonstrate examples of emission data routinely run by EMFAC-HK
- Discuss EMFAC-HK 2.1 input/output screens
- Perform exercises using EMFAC-HK v 2.1

System Requirements / Installation

• Executables -

http://www.epd.gov.hk/epd/english/environmentinhk/air/guide_ref/emf ac.html

- x86 compatible Microsoft 32-bit or 64-bit OS (preferably Microsoft Windows XP Service Pack 3, Windows Vista, or Windows 7 operating systems)
- 45 MB of Hard Disk space
- **Minimum** 64 MB RAM (128 MB recommended)
- Available Hard Disk Space 350 MB

Installation

- Program:
 - EmfacHKV21BCInstaller.exe
 - Emfac_HK_v2.1 Base Case (BC) Installation Packet
 - Installs EmfacHKV2_1_BC.exe and supporting libraries in default, or user-specified directory
 - EmfacHKV21IMInstaller.exe
 - Emfac_HK_v2.1 Inspection & Maintenance (I&M) Installation Packet
 - Installs EmfacHKV2_1_I&M.exe and supporting libraries in default, or user-specified directory

Running the Program Opening Screen



Main Screen

Emfac-HK V2.1 (I and M) Editing data			
<u>File Run H</u> elp			
The Governmental Protection Dep Special Administrative Region	artment		permitteo Air Reso California
Emfac-HK V2.1 (I a	and M) v2.1.1 120403 I	M Pr: Emfac-HK HK2.1.1 I <u>M</u> Cas	
MAIN			
List of Available Scenarios			No file
	-Current Scenario Data		
	Number: 0 of 0 Name:		
	Calendar Year:		
	Season: Type:		
	IM Program Parameters	Save	
		Save As	
	Add New Scenario	Run	
	Edit Scenario	Finish Editing	
	Delete Scenario	Cancel	

Tabs must be performed in sequence.

Adding or Editing Scenarios

Emfac-HK V2.1 (I and M) Editing data										
<u>F</u> ile <u>R</u> un <u>H</u> elp										
Environmental Protection Department The Government of the Hong Kong Special Administrative Region	HONG KONG Air Reso Californi									
. Input 1										
Basic scenario data - Select Area, Calculation Method, Calendar Year(s)), and Season									
Step 1 - Geographic Area Select an Area Type	Step 2 - Calendar Years Select Select a Calendar Year									
SAR	- Step 3 Season or Month Annual									
Cancel Next >	Finish									

Step 1: Geographic Area

Emfac-HK V2.1 (I and M) Editing data	
<u>F</u> ile <u>R</u> un <u>H</u> elp	
Environmental Protection Department The Government of the Hong Kong Special Administrative Region	HONG KONG Air Resou California
Emfac-HK V2.1 (I and M) V211 1200	
. Input 1	
Basic scenario data - Select Area, Calculation Method, Calendar Year(s), and Se	eason
Step 1 - Geographic Area Area Type: SAR Hong Kong	2 - Calendar Years Select ect a Calendar Year
SAR Ar	3 Season or Month
Cancel Next >	Finish

Step 2: Calendar Year Selection (I&M Version)



Step 3: Annual or Month Selection

🐮 Emfac-HK V2.00.4 (I and M) Editing data		
File Run Help		
Environmental Protection Department The Government of the Hong Kong Special Administrative Region	HONG	permitted I Air Resour California
Emfac-HK V2.00.4 (I and	d M) V2.00.4 120210 IM Pr: Bintec-HI	KHK2.00.4 I <u>M</u> Case
. Input 1		
Basic scenario data - Select Area, Calculation Method, Calendar Y	ear(s), and Season	
Step 1 - Geographic Area	Step 2 - Calendar Years	
Area Type: SAR SAR	Select	
Hong Kong	Select a Calendar Year	
	- Step 3 Season or Month	-
SAR	Annual 👤	
	February	-
	April	
	June	
Cancel	ext> August	
	October	
	November December	
	N/A N/A	
	Appual	

Steps 4-7: Scenario Details Screen

配 Emfac-HK V2.00.4 (I and M	🗈 Emfac-HK V2.00.4 (I and M) Editing data 🛛 🔲 🔀										
File Run Help											
Environmental Protection Department The Government of the Hong Kong Special Administrative Region											
Emfac-HK V	2.00.4 (I and	(<i>M</i>) V2.00.4 120210 IM Pr: Emfac-H	K H K2.00.4 I <u>M</u> Case								
. Input 1 Input 2 .	[. [. [. [.										
Basic scenario data - Select or Ente Step 4 Scenario Title for Repor	r Scenario Title ts										
<untitled></untitled>		Default Title									
Step 5 - Model Years All model years selected	Step 6 - Vehicle Classes MODIFIED: 16 of 21 vehicle classes selected	– Step 7 - I/M Program Sche Standard I/M schedules	dule								
All Modify	All	Default Modify	1								
Cancel	K Back Nex	t > Finish									

Step 7: I/M Options/Program Schedule deactivated in GUI.

Step 5: Model Year Selection

Before Changes



After Changes



Step 6: Vehicle Class Selection

Vehicle Class Selection		
 Private Cars (PC) <placeholder (p1)=""></placeholder> Taxi Light Goods Vehicles<=2.5i Lt Goods Vehicles 2.5-3.5t Light Goods Vehicles>3.5t 	 Heavy Goods Vehicles<=15t Heavy Goods Vehicles >15t <placeholder (p2)=""></placeholder> <placeholder (p3)=""></placeholder> Public Light Buses Private Light Bus <=3.5t Private Light Bus >3.5t Non-franchised Bus <=6.4t Non-franchised Bus >15t 	 Franchised Bus (SD) Franchised Bus (DD) Motorcycles (MC) <placeholder (p4)=""></placeholder> <placeholder (p5)=""></placeholder>
MODIFIED:	Reset to All 16 of 21 vehicle classes selected OK Cancel	

Mode and Output Screens

Emfac-HK V2.1 (I and M) Editing data	
<u>F</u> ile <u>R</u> un <u>H</u> elp	
Environmental Protection Department The Government of the Hong Kong Special Administrative Region	permitted Air Resou California
Emfac-HK V2.1 (I and M) V2.11 120403 IM PC EMT80-HK HK2.1.1 IM C	
. Input 1 Input 2 Mode and Output	
Burden - Area planning inventory Emfac - Area fleet average emissions Calimfac - Detailed vehic	cle data
Cancel < Back Constants Finish	

Version 2.1 has separate tabs for each operating mode.

BURDEN Output Options



Hour frequency increases output by factor of **25**

Detailed Planning Inventory (*.csv)

	4) + (H +) =					Taxa Inc.		HK_2015_202	0_2030_Burden.	csv - Microsoft	Excel	and the splitter							×
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1 Title	· Hong Kong	SAR Annual 3	CYrs 2015	to 2030 De	fault Title	0										~			
2 Versi	on : Emfac-Hk	V2.1 (Land M	A) V2 1 1 12	0403 I&M	Pr: Emfac-H	K HK2 1 1 L	& M Case												
3 Run I	Date : 2012/04	/10 10:41:48	,		in Linde I		ann cusc												-
4 Scen	Year: 2015 - 4	Il model year	s in the ran	ge 1971 to	2015 select	ed													
5 Seaso	on : Annual	,	1	0															
6 Area	: Hong Kong	SAR																	
7 I/M S	Stat : HK I/M p	, rogram in effe	ect																
8 Emis	sions: Tonnes	Per Day																	_
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10	PC-NCA	F PC-CAT	PC-DSL	PC-LPG	PC-TOT	TAXI-NCAT	TAXI-CAT	TAXI-DSL	TAXI-LPG	TAXI-TOT	LGV<=2.5t-	LGV<=2.5t-	LGV<=2.5t	LGV<=2.5t	LGV<=2.5t	LGV2.5-3.5	LGV2.5-3.5	LGV2.5-3.51	LGV2.
11 Vehic	cles 3	81 460553	1543	3 (462476	0	C	6	18237	18243	29	122	1001	0	1152	6	1105	42811	
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16 Idle E	xh	0 0	0) (0 0	0	C	0	0	0	0	0	0	0	0	0	0	0	
17 Start	Ex 0.004	84 0.12363	0) (0.12846	0	C	0	0.07527	0.07527	0.00154	0.00295	0	0	0.00448	0.00024	0.00396	0	
18																			
19 Total	Ex 0.022	19 0.49301	0.00499)	0.5202	0	0	0.00108	0.52852	0.5296	0.01256	0.01331	0.00481	0	0.03067	0.0013	0.01814	0.13354	
20																			
21 Diurr	nal 0.003	77 0.27071	. 0)	0.27448	0	C	0	0	0	0.00048	0.00033	0	0	0.00081	0.00004	0.00147	0	
22 Hot S	Soak 0.002	66 0.15965	0)	0.16231	0	C	0	0	0	0.00098	0.00068	0	0	0.00166	0.00008	0.00283	0	
23 Runn	ing 0.012	0.19929	0)	0.21148	0	C	0	0	0	0.00452	0.00112	0	0	0.00564	0.00037	0.00494	0	
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MVEI7G CSV file (*.bcd.csv)

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2	2	2008	1965	2008	SAR Average	Hon	Kong SAR	Average	6751	447:	1	.04 PC	NCAT	CO	Run Exh	5.2646	Day
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4	2	2008	1965	2008	SAR Average	Hon	Kong SAR	Average	6751	447:	1	.04 PC	NCAT	SOx	Run Exh	0	Day
5	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	1	.04 PC	NCAT	PM	Run Exh	0.0021	Day
6	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447	1	.04 PC	NCAT	Pb	Run Exh	0.0001	Day
7	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	1	.04 PC	NCAT	ROG	Run Exh	0.3957	Day
8	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	1	.04 PC	NCAT	CO2	Run Exh	33.1422	Day
9	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	1	.04 PC	NCAT	со	Idle Exh	0	Day
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16	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	1	.04 PC	NCAT	CO	Start Ex	0.2129	Day
17	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	1	.04 PC	NCAT	NOx	Start Ex	0.0107	Day
18	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	1	.04 PC	NCAT	SOx	Start Ex	0	Day
19	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	1	.04 PC	NCAT	PM	Start Ex	0.0001	Day
20	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	4471	1	.04 PC	NCAT	Pb	Start Ex	0	Day
21	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	1	.04 PC	NCAT	ROG	Start Ex	0.0348	Day
22	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	1	.04 PC	NCAT	CO2	Start Ex	1.357	Day
23	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	. 1	.04 PC	NCAT	со	Total Ex	5.4775	Day
24	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	. 1	.04 PC	NCAT	NOx	Total Ex	0.2764	Day
25	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	. 1	.04 PC	NCAT	SOx	Total Ex	0	Day
26	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	. 1	.04 PC	NCAT	PM	Total Ex	0.0022	Day
27	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447	. 1	.04 PC	NCAT	Pb	Total Ex	0.0001	Day
28	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447	. 1	.04 PC	NCAT	ROG	Total Ex	0.4305	Day
29	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	1	.04 PC	NCAT	CO2	Total Ex	34.4992	Day
30	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	1	.04 PC	NCAT	со	Hot Soak	0	Day
31	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	1	.04 PC	NCAT	NOx	Hot Soak	0	Day
32	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	. 1	.04 PC	NCAT	SOx	Hot Soak	0	Day
33	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	. 1	.04 PC	NCAT	PM	Hot Soak	0	Day
34	2	2008	1965	2008	SAR Average	Hon	g Kong SAR	Average	6751	447:	1	.04 PC	NCAT	Pb	Hot Soak	0	Day

Weighted Model Year Activity Output (*.WT)

20	ltraE	dit - [C:\Documents and	d Setting	s\Arney\My Documents\M	ly Projects\ERG\EMF#	\C\HongKong\Task 6	 Testing\EPD Comment 	s\20110216\Debug_HK20	Data.wt]				
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	4	Title:	Hong	Kong SAR Annual C	Yr 2008 Defaul	t Title							
	5	Area:	Hong	Kong	seee serdar								
	B 6SubArea: Average												
	Program: Emfac-HK working draft V1.99.6.2 110210 Sp: InProgress; GUI (HK Units); 330 TG; HK2.0 Data; HK TG Desc;												
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	9												
	10	SCENVVEHVVI		· · · · · · · · VEH · POP · ·	···· VKT/1000 ·	···· TRIPS	ACCRUAL	••••••ODOMETER					
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	12					_							
	13	2008 · · 1 NCAT	1965	21.			4810.	241367.					
	14	2008 1 NCAT	1966	3.		5.	4824.	236557.					
	15	ZUUS 1 NCAT	1967.	6.	0.08	9.	4839.	231733.					
	16	2008 I NCAT	.1968.	4.	0.05		4853.	226894.					
	10	2000 I NCAT	1970		0.13		4068.	222041.					
	10	2008 1 NCAT	1971	16	0.33		4004.	21/1/3.					
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	24	2008 · · · 1 · NCAT	1976					187620.					
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	26	2008 · · · 1 · NCAT	1978	• • • • • • • • • • • 44. • •	0.61			177625.					
	27	2008 · · · 1 · NCAT	1979	43		65.		172597.					
	28	2008 1 NCAT	1980		1.17			167549.					
	29	2008 1 NCAT	1981		1.19			162479.					
	30	2008 ···· 1 NCAT	1982		1.22			157386.					
	31	2008 1 NCAT	1983	32.	0.45	48.	5141.	152270.					
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	33	2008 I NCAT	.190 <i>6</i> .	175		157.	5221	126770					
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Detailed Output File (*.BDN.CSV)

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1 # Title :	Hong Kong	SAR Annual	2010	to 2012 I	Default	Title														
2 # Version :	Emfac-HK V	2.1 (BC) V2.	1.1 1	20403 BC	Pr: Em	fac-HK 2.1.	1 Base Ca	ase												
3 # Run Date :	4/12/2012	13:02																		
4 # Scen Year:	2010 All r	nodel years	in the	e range 1	966 to 2	2010 select	ed													
5 # Season :	Annual																			
6 # Area :	Hong Kong																			
7 # I/M Stat :	No I/M prog	ram in effe	ct																	
8 # Emissions:	Tonnes Per	Period																		
9 RecType	ScenNum	CalYr		Area	Veh	MdlYr	Tech	Period	Рор	VKT	Trips	VOC_RUN	E VOC_IDLE	VOC_STREX	VOC_TOTE>	VOC_DIURI	VOC_HTSK	VOC_RUNLS	VOC_RESTL	VOC_TOTAI
10 MY		1 2	2010	Hong Kor	1PC	196	5 GAS	Day	C		0	0	0 0	0	0	0	0	0	0	0
11 MY		1 2	2010	Hong Kor	1PC	196	5 DSL	Day	C		0	0	0 0	0	0	0	0	0	0	0
12 MY		1 2	2010	Hong Kor	1PC	196	5 LPG	Day	C		0	0	0 0	0	0	0	0	0	0	0
13 MY		1 2	2010	Hong Kor	PC	196	5 TOT	Day	0)	0	0	0 0	0 0	0	0	0	0	0	0
14 MY		1 2	2010	Hong Kor	PC	196	6 GAS	Day	31	636.67	758 46	5 1.84E-0	3 (0 4.18E-04	2.26E-03	3.43E-04	2.21E-04	9.94E-04	4.32E-04	4.25E-03
15 MY		1 2	2010	Hong Kor	PC	196	6 DSL	Day	0)	0	0	0 0	0 0	0	0	0	0	0	0
16 MY		1 2	2010	Hong Kor	PC	196	6 LPG	Day	0		0	0	0 0	0 0	0	0	0	0	0	0
17 MY		1 2	2010	Hong Kor	PC	196	6 ТОТ	Day	31	636.67	758 46.	5 1.84E-0	3 (4.18E-04	2.26E-03	3.43E-04	2.21E-04	9.94E-04	4.32E-04	4.25E-03
18 MY		1 2	2010	Hong Kor	PC	196	7 GAS	Day	4	82.39	983	6 2.35E-0	4 (5.37E-05	2.88E-04	4.42E-05	2.85E-05	1.28E-04	5.57E-05	5.45E-04
19 MY		1 2	2010	Hong Kor	PC	196	7 DSL	Day	C)	0	0	0 0	0 0	0	0	0	0	0	0
20 MY		1 2	2010	Hong Kor	PC	196	7 LPG	Day	0)	0	0	0 0) 0	0	0	0	0	0	0
21 MY		1 2	2010	Hong Kor	PC	196	7 ТОТ	Day	4	82.39	983	6 2.35E-0	4 (5.37E-05	2.88E-04	4.42E-05	2.85E-05	1.28E-04	5.57E-05	5.45E-04
22 MY		1 2	2010	Hong Kor	PC	196	8 GAS	Day	3	61.970	078 4.	5 1.74E-0	4 (4.01E-05	2.14E-04	3.32E-05	2.14E-05	9.63E-05	4.18E-05	4.06E-04
23 MY		1 2	2010	Hong Kor	PC	196	8 DSL	Day	0)	0	0	0 0	0 0	0	0	0	0	0	0

EMFAC Mode Options



EMFAC Mode Options – Select/Edit Temperatures (°C)

Select/Edit temperature for Emfac calcula	ations							
Enter data for temperature. Click button to enable new value.								
Delete temperature 1	C Enter temperature 13							
O Delete temperature 2 5 O Delete temperature 3 10	Enter temperature 14 Enter temperature 15							
C Delete temperature 4 15 C Delete temperature 5 20	C Enter temperature 16 C Enter temperature 17							
O Delete temperature 6 25 O Delete temperature 7 30	C Enter temperature 18 C Enter temperature 19							
O Delete temperature 8 35 O Delete temperature 9 40	C Enter temperature 20 C Enter temperature 21							
C Enter temperature 10	C Enter temperature 22							
C Enter temperature 12	C Enter temperature 24							
✓ Sort the array (done after exit)	OK Cancel							

EMFAC Mode Options – Select/Edit Relative Humidity (%)

Select/Edit rel hum for Emf	ac calculati	ons	
Enter data for rel hum. Clic Enter values of speed ar Delete rel hum 1 Delete rel hum 2 Delete rel hum 3 Delete rel hum 4 Delete rel hum 5 Delete rel hum 6 Delete rel hum 7 Delete rel hum 7 Delete rel hum 8 Delete rel hum 9 Delete rel hum 10 Delete rel hum 11 Delete rel hum 12	k button to e nd temperatu 0 10 20 30 40 50 60 70 80 90 100	mable new value. Ire C Enter rel hum 13 C Enter rel hum 14 C Enter rel hum 15 C Enter rel hum 16 C Enter rel hum 17 C Enter rel hum 18 C Enter rel hum 19 C Enter rel hum 20 C Enter rel hum 21 C Enter rel hum 22 C Enter rel hum 23 C Enter rel hum 23 C Enter rel hum 23 C Enter rel hum 24	
☑ Sort the array (done aft	er exit)	ОК	Cancel

EMFAC Mode Options – Select/Edit Speed Profiles (kph)

Select/Edit speed for Emfac calculations									
Enter data for speed. Click button to enable new value.									
Enter values of speed ar	nd temperatu	re							
Delete speed 1	0	O Delete speed 13	120						
O Delete speed 2	10	O Delete speed 14	130						
O Delete speed 3	20	Enter speed 15							
C Delete speed 4	30	C Enter speed 16							
O Delete speed 5	40	C Enter speed 17							
O Delete speed 6	50	🔿 Enter speed 18							
O Delete speed 7	60	🔿 Enter speed 19							
C Delete speed 8	70	C Enter speed 20							
O Delete speed 9	80	🔿 Enter speed 21							
O Delete speed 10	90	🔿 Enter speed 22							
O Delete speed 11	100	🔿 Enter speed 23							
C Delete speed 12	110	C Enter speed 24							
* Idling (0 km/hr) is not displayed in the output file									
Sort the array (done after exit)									

EMFAC Impact Rate Detail Format (*.RTL)

0.) 🖬 🤊	· (24)	Ŧ								HK_20:	15_EMFAC.rt	l.csv - Micro	osoft Excel									-	0	
	Home	Insert	Page La	ayout Fo	rmulas	Data R	view V	iew Add	-Ins															C) _ =
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4	Clipboard	d 5		Font		6 <u> </u>	Alig	nment	. Is	Nu	mber	19			5	styles				Cells			Editing		
_	A1		0	J _x Title	: Hong H	Kong SAR A	nnual CYr 2	2015 Defaul	t Title																
	A	В	C	D	E	F	G	Н	1	J	К	L	M	N	0	Р	Q	R	S	Т	U	V	W		X
1	itle : H	ong Kong	SAR Annu	ual CYr 201	15 Defaul	t litle	F (114																		
2 1	ersion :	Emfac-H	K V2.1 (I a	nd M) V2.	1.1 12040	03 1&M Pr:	Emfac-HK	HK2.1.1 R	&M Case																
3 1	un Date	: 2012/04	4/10 10:43	s:09	o rongo	1071 to 20		d																	
4 3	eason :	Annual	An moder	years in u	le range .	1971 10 20	15 Selecte	eu																	
6 4	rea · ·	Hong Kon	a																						
7 *	******	******	*******	*******	******	*******	******	*******	*******	*******	*******														
8 Y	ear:	2015		Model	Years	1971	to	2015	Inclusive			Annual													
9	Emfac-	-HK V2.1	(I and M) I	Emission F	actors: V	2.1.1 1204	03 I&M Pi	: Emfac-H	к нк2.1.1	I&M Case															
10																									
11 S	AR Avera	age				Hong	Kong					SAR Avera	age												
12																									
13					Table 1	: Running	Exhaust E	missions (grams/km;	; grams/id	le-hour)														
14																									
15 P	ollutant	Name: Vo	olatile Org	Cpds	Tempera	ature: 25C	Relative	Humidity:	40%																
16																									
17 S	peed	PC	PC	PC	PC	PC	TAXI	TAXI	TAXI	TAXI	TAXI	LGV3	LGV3	LGV3	LGV3	LGV3	LGV4	LGV4	LGV4	LGV4	LGV4	LGV6	LGV6	LGV	6 L
18 k	m/hr	NCAT	CAT	DSL	LPG	ALL	NCAT	CAT	DSL	LPG	ALL	NCAT	CAT	DSL	LPG	ALL	NCAT	CAT	DSL	LPG	ALL	NCAT	CAT	DSL	L
19	10	5 7052	0.4452	0.200		0 0 4 4 0 5			4 4 45 7	0.202	0 2022	46 6007	4 4 3 5 3	0.4546		0 0 0007	0.2446	0.677	0.4422		0.4267		_	0 1	0452
20	10	5.7953	0.1153	0.288		0 0.1195			1.1457	0.282	0.2822	10.6227	4.1253	0.1616		0 0.9027	9.3446	0.6//	0.1122		0.1267			0 1.	.9453
21	20	3.8593	0.0706	0.2154		0 0.0750		, U	0.6526	0.1505	0.0024	0.0705	1 /225	0.1208		0 0.3580	5.0002	0.31/9	0.0839		0.0902		n n	0 0.	2116
22	30	2.7542	0.0466	0.1000		0 0.0488	((, U	0.0020	0.0932	0.0934	6.4689	1 31/17	0.0935		0 0.4174	3.6206	0.2301	0.0649	((0.0094		n	0 0	2579
23	50	1.7311	0.0252	0.1104		0 0.0266	(, 0) 0	0.439	0.0453	0.0455	4.6321	1,186	0.0619		0 0.27	2.5853	0.1886	0.043	0	0.0467		0	0 0	1979

Editing Fundamental Data



Editing Exhaust Technology Fractions

Exhaust Technology Fractions
Edit Exhaust Technology Fractions by 01: Private Cars (PC)
Vehicle Class
Model Year 1995
EXHAUST Technology Groups Total: 100.0000% OK
of Tech Groups 5
Group % Model years, vehicle classes, standards
61.3433 PC Euro I petrol
171 0.4328 pre-Euro PC dsl with traps
172 0.194 pre-Euro PC dsl with DOC
173 2.3433 Euro I PC diesel
Beturn Communities to other years and
Apply Cancel Done Apply to Others

Editing Exhaust Technology Fractions (cont.)

Before Edit

"During" Edit

Exhaust Technology Fractions	Exhaust Technology Fractions
Edit Exhaust Technology Fractions by Uii: Light Goods Vehicles (3:5:5:5t) (LGV6) Vehicle Class Model Year 2010 EXHAUST Technology Groups Total: 100.0000% DK # of Tech Groups 1 Group % Model years, vehicle classes, standards 132 100.0 Euro IV LGV 3.5:5.5t dsl 1 1 <	Edit Exhaust Technology Fractions by 06: Light Goods Vehicles (3.5-5.5t) (LGV6) Vehicle Class Model Year Model Year EXHAUST Technology Groups Total: 60.0000% NOT EQUAL TO # of Tech Groups 2 Group % Model years, vehicle classes, standards 132 60.0 Euro IV LGV 3.5-5.5t dsl 133 1 1 1 1

Introducing another Exhaust TG. Note warning is displayed that total percentage is not 100%, yet. New percentage entered will be 40%.

Editing Evap Technology Fractions

Evap Technology Fractions
Edit Evap Technology Fractions by 01: Private Cars (PC)
Vehicle Class
Model Year 2013
EVAP Technology Groups Total: 100.0000% OK
of Tech Groups 1
Group % Model years, vehicle classes, standards
14 100.0 PC Euro III+, 1-day Diurnal
Return Copy values to other years and
Apply Cancel Done Apply to Others

Changing Activity Data

- edit fundamental activity data such as population, accrual rates, trips and vehicle kilometers traveled.
- dialogs are sequenced noting the interdependencies among the data

Population and Accrual Edits



Info on Accrual Rates



Editing Total Population

otal Populatio	n for area		Copy with H	leadings	Paste Data Only
	Hong Kong SAR				
diting Mode		Editing	Population (registered v	ehicles with adju	stments)
Total Popula	tion By Vehicle Class	By Vehicle and Fuel	By Vehicle/Fuel/Age		
	Revise	d Total Population	638643	3.	
	Previou	s Total Population	63864	3.	

Editing Population by Vehicle Class and Fuel Type

Hong Kong SAR Editing Population (registered vehicles with adjustments) Total Population By Vehicle Class By Vehicle and Fuel By Vehicle/Fuel/Age 01 - Private Cars (PC) 1 2 3 02 - (Placeholder (P1)> 2 0.0 0.0 03 - Taxi 3 0.0 3.5 1823 04 - Light Goods Vehicles 2.5-3.5t 3 0.0 3.5 1823 05 - Lt Goods Vehicles 2.5-3.5t 6 0.0 25811.2 7 07 - Heavy Goods Vehicles > 3.5t 5 1172.2 42313.4 6 08 - Heavy Goods Vehicles > 15t 8 0.0 30523.0 9 9 0.0 0.0 11 0.0 110 10 - CHaceholder (P2)> 10 0.0 0.0 111 0.0 112 2163.6 299.4 13 11.4 1067.7 90 12 - Private Light Bus > 35t 16 0.0 2305.0 16 0.0 2344.0 17 0.0 381.0 18 0.0 2344.0	e Data Only	Paste Data	Headings	Copy with			otal Population for area
Editing Mode Editing Population (registered vehicles with adjustments) Total Population By Vehicle Class By Vehicle and Fuel By Vehicle/Fuel/Age 01 - Private Cars (PC) 1 2 3 02 - <placeholder (p1)=""> 0 0 0 03 - Taxi 0.0 3.5 1823 04 - Light Goods Vehicles 2.5-3.5t 0 3 0.0 3.5 05 - Lt Goods Vehicles 2.5-3.5t 6 0.0 25811.2 0 07 - Heavy Goods Vehicles >15t 6 0.0 25811.2 0 09 - <placeholder (p2)=""> 9 0.0 0.0 1 09 - <placeholder (p3)=""> 1 0.0 182.5 31 12 - Private Light Bus > 3.5t 12 2163.6 299.4 13 11.4 1067.7 94 14 - Non-franchised Bus (SD) 15 0.0 2305.0 16 0.0 2344.0 17 0.0 344.0 17 0.0 344.0 17 0.0 344.0 18 0.0 5349.0 19<td></td><td></td><td></td><td></td><td></td><td></td><td>Hong Kong SAR</td></placeholder></placeholder></placeholder>							Hong Kong SAR
Total Population By Vehicle Class By Vehicle and Fuel By Vehicle/Fuel/Age 01 - Private Cars (PC) 1 2 3 02 - (Placeholder (P1)> 3 0.0 0.0 03 - Taxi 0.0 0.0 3 04 - Light Goods Vehicles 2.5:3.5t 0.0 0.0 3.5 1.82: 04 - Light Goods Vehicles 2.5:3.5t 0.0 2 0.0 0.0 05 - Lt Goods Vehicles 2.5:3.5t 6 0.0 2.8311.2 0.0 07 - Heavy Goods Vehicles >3.5t 7 0.0 10766.9 8 08 - Heavy Goods Vehicles >15t 9 0.0 0.0 1 19 - Vivate Light Bus <3.5t		ments)	vehicles with adjust	pulation (registered	diting F	E	Editing Mode
Fuel (1=Petrol/2=Dissel/3=LPG) Image: State of the section of the			1	y Vehicle/Fuel/Age	Fuel	e and	Total Population By Vehicle Class By Vehicle
1 2 3 01 - Private Cars (PC) 1 443125.6 1448.9 02 - ⟨Placeholder (P1)> 2 0.0 0.0 03 - Taxi 3 0.0 3.5 182: 04 - Light Goods Vehicles <=2.5t		LPG)	etrol/2=Diesel/3=	Fuel (1=Pe		$\overline{\mathbf{N}}$	
01 - Private Cars (PC) 1 443125.6 1448.9 02 - ⟨Placeholder (P1)> 2 0.0 0.0 03 - Taxi 3 0.0 3.5 182: 04 - Light Goods Vehicles <=2.5t		3	2	1			
02 - <placeholder (p1)=""> 2 0.0 0.0 03 - Taxi 3 0.0 3.5 182: 04 - Light Goods Vehicles <= 0.5t</placeholder>	0.0	0.0	1448.9	443125.6	1		01 - Private Cars (PC)
03 - Taxi 3 0.0 3.5 182: 04 - Light Goods Vehicles <= 0.5t	0.0	0.0	0.0	0.0	2		02 - <placeholder (p1)=""></placeholder>
04 - Light Goods Vehicles<=2.5t	9.5	18239.5	3.5	0.0	3		03 - Taxi
05 - Lt Goods Vehicles 2.5-3.5t 5 1172.2 42313.4 06 - Light Goods Vehicles>3.5t 6 0.0 25811.2 07 - Heavy Goods Vehicles>3.5t 7 0.0 10766.9 08 - Heavy Goods Vehicles>15t 9 0.0 30523.0 09 - <placeholder (p2)=""> 9 0.0 0.0 10 - <placeholder (p3)=""> 10 0.0 0.0 11 - Public Light Busses 11 0.0 112.5 314 12 - Private Light Bus <=3.5t</placeholder></placeholder>	0.0	0.0	978.6	161.7	4		04 - Light Goods Vehicles<=2.5t
06 - Light Goods Vehicles>3.5t 6 0.0 25811.2 07 - Heavy Goods Vehicles>15t 7 0.0 10766.9 08 - Heavy Goods Vehicles>15t 9 0.0 30523.0 09 - (Placeholder (P2)> 9 0.0 0.0 10 - (Placeholder (P3)> 10 0.0 0.0 11 - Public Light Buses 11 0.0 112.5 314 12 - Private Light Bus <=3.5t	0.0	0.0	42313.4	1172.2	5		05 - Lt Goods Vehicles 2.5-3.5t
07 · Heavy Goods Vehicles <15t	0.0	0.0	25811.2	0.0	6		06 - Light Goods Vehicles>3.5t
08 - Heavy Goods Vehicles >15t 8 0.0 30523.0 09 - <placeholder (p2)=""> 9 0.0 0.0 10 - <placeholder (p3)=""> 10 0.0 0.0 11 - Public Light Buses 11 0.0 1182.5 310 12 - Private Light Bus <=3.5t</placeholder></placeholder>	0.0	0.0	10766.9	0.0	7		07 - Heavy Goods Vehicles<=15t
09 - <placeholder (p2)=""> 9 0.0 0.0 10 - <placeholder (p3)=""> 10 0.0 0.0 11 - Public Light Buses 11 0.0 1182.5 310 12 - Private Light Bus <=3.5t</placeholder></placeholder>	0.0	0.0	30523.0	0.0	8		08 - Heavy Goods Vehicles >15t
10 - <placeholder (p3)=""> 10 0.0 0.0 11 - Public Light Buses 11 0.0 1182.5 310 12 - Private Light Bus <=3.5t</placeholder>	0.0	0.0	0.0	0.0	9	s	09 - <placeholder (p2)=""></placeholder>
11 - Public Light Buses 11 0.0 1182.5 311 12 - Private Light Bus <=3.5t	0.0	0.0	0.0	0.0	10	Clas	10 - <placeholder (p3)=""></placeholder>
12 - Private Light Bus <=3.5t	5.5	3165.5	1182.5	0.0	11	le	11 - Public Light Buses
13 - Private Light Bus >3.5t ▶ 13 11.4 1067.7 94 14 - Non-franchised Bus <= 6.4t	0.0	0.0	299.4	2163.6	12	hic	12 - Private Light Bus <=3.5t
14 · Non-franchised Bus<=6.4t	51.9	961.9	1067.7	11.4	13	Ve	13 - Private Light Bus >3.5t
15 - Non-franchised Bus 6.4-15t 15 0.0 2305.0 16 - Non-franchised Bus >15t 16 0.0 2344.0 17 - Franchised Bus (SD) 17 0.0 381.0 18 - Franchised Bus (DD) 18 0.0 5349.0 19 - Motorcycles (MC) 19 41652.9 0.0 20 - CPlaceholder (P4)> 20 0.0 0.0	0.0	0.0	3215.0	0.0	14		14 - Non-franchised Bus<=6.4t
16 · Non-franchised Bus >15t 16 0.0 2344.0 17 · Franchised Bus (SD) 17 0.0 381.0 18 · Franchised Bus (DD) 18 0.0 5349.0 19 · Motorcycles (MC) 19 41652.9 0.0 20 · 0.0 0.0 21 0.0	0.0	0.0	2305.0	0.0	15		15 - Non-franchised Bus 6.4-15t
17 - Franchised Bus (SD) 17 0.0 381.0 18 - Franchised Bus (DD) 18 0.0 5349.0 19 - Motorcycles (MC) 19 41652.9 0.0 20 - <placeholder (p4)=""> 20 0.0 0.0 21 - <placeholder (p5)=""> 21 0.0 0.0</placeholder></placeholder>	0.0	0.0	2344.0	0.0	16		16 - Non-franchised Bus >15t
18 · Franchised Bus (DD) 18 0.0 5349.0 19 · Motorcycles (MC) 19 41652.9 0.0 20 · <placeholder (p4)=""> 20 0.0 0.0 21 · <placeholder (p5)=""> 21 0.0 0.0</placeholder></placeholder>	0.0	0.0	381.0	0.0	17		17 - Franchised Bus (SD)
19 - Motorcycles (MC) 19 41652.9 0.0 20 - <placeholder (p4)=""> 20 0.0 0.0 21 - <placeholder (p5)=""> 21 0.0 0.0</placeholder></placeholder>	0.0	0.0	5349.0	0.0	18		18 - Franchised Bus (DD)
20 < <placeholder (p4)=""> 20 0.0 0.0 21 < <placeholder (p5)=""> 21 0.0 0.0</placeholder></placeholder>	0.0	0.0	0.0	41652.9	19		19 - Motorcycles (MC)
21 · <placeholder (p5)=""> 21 0.0 0.0</placeholder>	0.0	0.0	0.0	0.0	20		20 - <placeholder (p4)=""></placeholder>
	0.0	0.0	0.0	0.0	21		21 - <placeholder (p5)=""></placeholder>
			- 1	1		_	

Editing Trip and VKT Profiles



Editing Total VKT

Total VKT for	area	Copy with Headings Paste Data Only
	Hong Kong SAR]
Editing Mode		Editing VKT (vehicle km traveled per weekday)
Total VKT	By Vehicle Class	By Vehicle and Fuel By Vehicle/Fuel/Hour
		Revised Total VKT 33671656
		Previous Total VKT 336/1656.

Editing Profiles/Speed



Editing Speed Profiles

Speed	d Fracti	ons by Scen	ario Year an	d Vehicle Cl	ass					
Area:	Hong K	Kong SAR			Scena	ario Year: 2013	Lopy with I	Headings	Paste Data	Unly
H	ong Ko	ng SAR								
VKT-	Weighte	ed Average	Basis: 1.6 K	PH 8 KPH	16 KPH	Vehicle Class	01: Private	e Cars (PC)		-
					Hour (1 to	24)				
		1	2	3	4	5	6	7	8	
	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	=
	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	4	0.0541	0.0541	0.0541	0.0541	0.0541	0.0541	0.0541	0.0589	
	5	0.0980	0.0980	0.0980	0.0980	0.0980	0.0980	0.0980	0.1053	
18)	6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Ë	7	0.1993	0.1993	0.1993	0.1993	0.1993	0.1993	0.1993	0.2072	
ſ	в	0.0603	0.0603	0.0603	0.0603	0.0603	0.0603	0.0603	0.0748	
2	9	0.2731	0.2731	0.2731	0.2731	0.2731	0.2731	0.2731	0.2670	
Ĕ,	10	0.1817	0.1817	0.1817	0.1817	0.1817	0.1817	0.1817	0.1692	
Ĩ	11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Bi	12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
bee	13	0.1203	0.1203	0.1203	0.1203	0.1203	0.1203	0.1203	0.1026	
S	14	0.0132	0.0132	0.0132	0.0132	0.0132	0.0132	0.0132	0.0150	
	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
•									Þ	
Total 100.00 % OK Apply Cancel Done Apply to Others										

Info Message for 'Profiles' Option for Temperatures and Relative Humidity



Editing Temperature Profile

Diurnal Temperature Profile
Area: Hong Kong SAR Month: Annual VKT-Weighted Average of 1 Sub-areas
Hong Kong SAR
Copy with Headings Paste Data Only Temperatures (C)
Hour
0000 0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 21.8 21.7 21.6 21.4 21.3 21.2 21.1 21.2 21.9 22.8 23.5 24.2
1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 24.6 24.9 25.0 24.9 24.6 24.0 23.3 22.8 22.5 22.3 22.1 22.0
Modify Values for Range of Hours to Constant Value for Range
Apply Cancel Done

Final Run or Progress Screen



EMFAC-HK Version 2.1 Example Input File

HK_2015_2020_2030_Burden.inp - Notepad	
File Edit Format View Help	
<pre>EmfacHK21-Header Version 2 1 0 0 Scenario-Count 1 End-Header Begin-Scenario 1 Title Hong Kong SAR Annual 3 CYrs 2015 to 2030 Default Title Program-Mode Burden Area-Method One-County Area-Type SAR Area-Number 38 [Hong Kong SAR] HC-Mode VOC PM-Mode PM10 CYr 2015 2020 2030 MYr All Vehicles PC TAXI LGV3 LGV4 LGV6 HGV7 HGV8 PLB PV4 PV5 NFB6 NFB7 NFB8 FBSD FBDD Season Annual Burden-Reports CSV_Standard BCD Burden-Speeds 5 End-Scenario</pre>	MC
	-
	- F
Ln 1, C	ol 1