

香港電燈有限公司
The Hongkong Electric Co., Ltd.



**Lamma Power Station
Units L2, L4 & L5 Flue Gas Desulphurization
Plants Retrofit**

Operational Phase

Quarterly Environmental Monitoring & Audit Report

April – June 2018

香港電燈有限公司
The Hongkong Electric Co., Ltd.



ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499

ENVIRONMENTAL PERMITS NO. EP-248/2006 & EP-287/2007

**LAMMA POWER STATION
UNITS L2, L4 & L5 FLUE GAS DESULPHURIZATION PLANTS RETROFIT**

**ENVIRONMENTAL MONITORING & AUDIT PROGRAMME
AT OPERATIONAL PHASE**

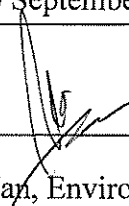
Report Title	Quarterly EM&A Report (April to June 2018)
Date	20 September 2018
Certified by	 (Mr. IP Tat-Yan, Environmental Team Leader)

TABLE OF CONTENT

EXECUTIVE SUMMARY

1.	INTRODUCTION	1
1.1	Background	1
1.2	Project Organisation	1
1.3	Plant Availability during the Reporting Period	2
1.4	Malfunction/Outage Records of Pollution Control Equipment	2
1.5	Summary of EM&A Requirements	3
2.	AIR QUALITY	11
2.1	Monitoring Requirements	11
2.2	Summary of Results and Observations	11
3.	WATER QUALITY.....	12
3.1	Monitoring Requirements	12
3.2	Summary of Results and Observations	12
4.	ENVIRONMENTAL AUDIT	13
4.1	Review of Environmental Monitoring Procedures	13
4.2	Assessment of Environmental Monitoring Results	13
4.3	Status of Environmental Licensing and Permitting	14
4.4	Implementation Status of Environmental Mitigation Measures	15
4.5	Implementation Status of Event/Action Plan	15
4.6	Implementation Status of Environmental Complaint Handling Procedures	15
5.	FUTURE KEY ISSUES	17
5.1	Outage Plan for the coming 3 months	17
5.2	Key issues for the coming 3 months	17
6.	CONCLUSION	18

LIST OF TABLES

Table 2.1	Air Quality Monitoring Parameters and Frequency
Table 3.1	Water Quality Monitoring Parameters and Frequencies
Table 4.1	Summary of Action/Limit Level Exceedances on Monitoring Parameters
Table 4.2	Amount of Gypsum and Sludge Collected for Reuse by Contractor
Table 4.3	Summary of Environmental Licensing and Permit Status
Table 4.4	Environmental Complaints Received
Table 4.5	Outstanding Environmental Complaints Carried Over

LIST OF FIGURES

Figure 1.1a	Location of New Facilities for L4 & L5 FGD Plant
Figure 1.1b	Location of New Facilities for L2 FGD Plant
Figure 1.2a	General Arrangement of L4 & L5 FGD Plant
Figure 1.2b	General Arrangement of L2 FGD Plant
Figure 1.3	Schematic Diagram of L2, L4 & L5 FGD Plant
Figure 1.4	Simplified Schematic Diagram of FGD Wastewater Treatment Plant
Figure 1.5	Organization Chart at Operational Phase

APPENDIX

Appendix A	Event/Action Plans in Response to Exceedance of AL Levels
Appendix B	Air Quality Monitoring Results
Appendix C	Summary Results on Water Quality Monitoring
Appendix D	Summary of EMIS

EXECUTIVE SUMMARY

This is the quarterly Environmental Monitoring and Audit (EM&A) report for the Projects “Lamma Power Station Units L4 & L5 Flue Gas Desulphurization Plant Retrofit” and “Lamma Power Station Unit L2 Flue Gas Desulphurization Plant Retrofit” prepared by the Environmental Team (ET). This report presents the results of impact monitoring on air and water quality and environmental audit for the operation of the said projects in the period from April to June 2018.

Environmental monitoring for air quality and water quality were carried out for the purpose of this EM&A program as well as for fulfilling the requirements stipulated in the relevant licences. The results were checked against the established Action/Limit (AL) levels. The implementation status of the environmental mitigation measures, Event/Action Plan and environmental complaint handling procedures were also checked.

Plant Availability

Units L2, L4 and L5 were out of service during the following period:

Unit	Period	Remark
L5	01/04/2018 00:01 to 02/04/2018 09:35	Defect rectification
L5	28/04/2018 13:50 to 30/04/2018 06:45	Defect rectification
L5	25/05/2018 23:58 to 26/05/2018 13:31	Defect rectification
L2	02/06/2018 17:00 to 04/06/2018 08:56	Defect rectification

Malfunction/Outage Records of Pollution Control Equipment

Major outages of the Pollution Control Equipment during the reporting period are listed below:

Equipment	Period	Cause	Actions Taken
L2 FGD	23/05/2018 10:51 to 12:06; 17:18 to 17:42;	Stoppage of Absorber Recirculation Pump (ARP)	EPD was informed on 25/05/2018
L2 FGD	14/06/2018 08:35 to 19/06/2018 07:32	Booster fan defect rectification works	EPD was informed on 20/06/2018

For other minor outages, please refer to section 1.4 of the report.

Environmental Monitoring Works

Environmental monitoring works were performed during the operation of Units L2, L4 and L5 FGD Plants in the reporting period.

Air Quality

No exceedance of Action and Limit levels for air quality were recorded in the reporting period.

Water Quality

No exceedance of Action and Limit levels for water quality were recorded in the reporting period.

Environmental Licensing and Permitting

Description	Permit / Licence No.	Valid Period		Issued To	Date of Issuance
		From	To		
Environmental Permit for L4/5 FGD plants retrofit project	EP-248/2006	25/04/2006	-	HK Electric	25/04/2006
Environmental Permit for Unit L2 FGD plant retrofit project	EP-287/2007	02/10/2007	-	HK Electric	02/10/2007
Specified Process Licence issued under APCO	L-7-002(11)	01/01/2017	31/12/2018	HK Electric	22/12/2016
WPCO discharge licence for Ash Lagoon	WT00027218-2017	24/02/2017	31/12/2021	HK Electric	24/02/2017

Implementation Status of Environmental Mitigation Measures

Environmental mitigation measures were implemented in the reporting period.

Environmental Complaints

There was one environmental complaint against the operation of Lamma Power Station during the reporting period. No abnormal activity was identified during the concerned period and the seen dark effluent was believed to be the surface running water due to heavy rainfall. Anyway, the case was not specifically related to the retrofit projects and had been closed.

Future key issues

Key issues to be considered in the coming months include:

Air Impact

- To continuously carry out the air quality monitoring for Units L2, L4 and L5.

Water Impact

- To continuously carry out the water quality monitoring for FGD WWT plant.

Concluding Remarks

The environmental performance of the projects was generally satisfactory.

1. INTRODUCTION

The Environmental Team (hereinafter called the “ET”) was formed within The Hongkong Electric Co. Ltd (HK Electric) to undertake Environmental Monitoring and Audit for the “Operation of Lamma Power Station Units L4 & L5 Flue Gas Desulphurization Plant Retrofit Project” under the requirements of Clause 2.18 of Environmental Permit (EP) No. EP-248/2006 and “Operation of Lamma Power Station Unit L2 Flue Gas Desulphurization Plant Retrofit Project” under the requirements of Clause 2.10 of Environmental Permit (EP) No. EP-287/2007.

This report summarizes the environmental monitoring and audit work for the said Projects for the period from April to June 2018.

1.1 Background

The Projects involves retrofitting the three existing coal-fired generating Units L2, L4 and L5 of Lamma Power Station with Flue Gas Desulphurisation (FGD) plants for reducing sulphur dioxide emissions in support of Government policy to improve the air quality of the Pearl River Delta.

The Projects include the installation and operation of FGD plants with flue gas desulphurization efficiency of 90% for the three coal-fired Units L2, L4 & L5 to reduce the overall SO₂ emissions from Lamma Power Station. The process adopted for the FGD plants is “Wet Limestone-Gypsum”, a technology which has already been used in, and proved effective and reliable for the existing coal-fired units L6, L7 & L8. The flue gas from the boiler is directed to the FGD absorber inside which removal of SO₂ is take place by reaction with limestone slurry. After passing through the absorber, the treated flue gas is heated up by a gas-gas heater to over 80°C at boiler rated capacity and directed back to the existing chimney for discharge to the atmosphere. [Figure 1.1a](#), [Figure 1.1b](#), [Figure 1.2a](#), [Figure 1.2b](#) and [Figure 1.3](#) show the location and schematic of the FGD plants.

Wastewater filtrated from the reacted limestone slurry, i.e. gypsum slurry, is produced and it is directed to the existing FGD wastewater treatment plant (WWTP). The FGD WWTP is designed to treat the effluent from FGD plants by alkalization, precipitation and neutralization processes. The schematic diagram of the FGD WWTP is illustrated in [Figure 1.4](#).

The additional equipment for the FGD Plants retrofit projects for Units L2, L4 and L5 includes:

- Three sets of FGD absorbers and associated ductworks
- Three sets of booster fans
- Three sets of gas-gas heaters
- Two FGD Switchgear and Equipment Buildings
- Gypsum dewatering system comprising two sets of hydrocyclones and belt filters

1.2 Project Organisation

The management structure to oversee the Projects includes the following:

- Environmental Protection Department (The Authority);

- General Manager (Corporate Development) (The official contact person between HK Electric and EPD);
- Environmental Team Leader (ET Leader);
- Environmental Team (ET).

The organization chart for the Operation EM&A programme is shown in [Figure 1.5](#).

1.3 Plant Availability during the Reporting Period

Units L2, L4 and L5 were out of service during the following period:

Unit	Period	Remark
L5	01/04/2018 00:01 to 02/04/2018 09:35	Defect rectification
L5	28/04/2018 13:50 to 30/04/2018 06:45	Defect rectification
L5	25/05/2018 23:58 to 26/05/2018 13:31	Defect rectification
L2	02/06/2018 17:00 to 04/06/2018 08:56	Defect rectification

1.4 Malfunction/Outage Records of Pollution Control Equipment

Equipment	Period	Cause	Actions Taken
L2 FGD	23/05/2018 10:51 to 12:06; 17:18 to 17:42;	Stoppage of Absorber Recirculation Pump (ARP)	EPD was informed on 25/05/2018
L2 FGD	14/06/2018 08:35 to 19/06/2018 07:32	Booster fan defect rectification works	EPD was informed on 20/06/2018
L4 FGD	19/05/2018 04:26 to 04:30	Routine Damper Exercise	EPD was informed on 23/05/2018
L4 FGD	27/05/2018 01:05 to 01:07	Routine Damper Exercise	EPD was informed on 01/06/2018
L4 FGD	02/06/2018 02:55 to 03:09	Routine Damper Exercise	EPD was informed on 06/06/2018
L4 FGD	09/06/2018 01:19 to 01:24	Routine Damper Exercise	EPD was informed on 11/06/2018
L4 FGD	16/06/2018 02:27 to 02:30	Routine Damper Exercise	EPD was informed on 20/06/2018
L5 FGD	14/04/2018 02:27 to 02:29	Routine Damper Exercise	EPD was informed on 08/05/2018
L5 FGD	21/04/2018 02:37 to 02:40	Routine Damper Exercise	EPD was informed on 25/04/2018
L5 FGD	12/05/2018 01:16 to 01:31	Routine Damper Exercise	EPD was informed on 14/05/2018
L5 FGD	19/05/2018 04:21 to 04:23	Routine Damper Exercise	EPD was informed on 23/05/2018

L5 FGD	02/06/2018 03:15 to 03:17	Routine Damper Exercise	EPD was informed on 06/06/2018
L5 FGD	09/06/2018 01:14 to 01:18	Routine Damper Exercise	EPD was informed on 11/06/2018
L5 FGD	16/06/2018 02:11 to 02:13	Routine Damper Exercise	EPD was informed on 20/06/2018
L5 FGD	24/06/2018 00:11 to 00:14	Routine Damper Exercise	EPD was informed on 26/06/2018
L5 FGD	30/06/2018 02:57 to 03:00	Routine Damper Exercise	EPD was informed on 03/07/2018

1.5 Summary of EM&A Requirements

Environmental Monitoring and Audit (EM&A) requirements have been discussed in the Environmental Impact Assessment (EIA) Report/ Project Profile for the Projects. The assessment results indicate that environmental monitoring works required for the EM&A programmes of these Projects are already in place or would be implemented under Lamma Power Station Extension Environmental Permit or environmental licenses for the operation of the existing Lamma Power Station. Such monitoring works are considered adequate for the Projects and no additional EM&A activities are required. Hence, environmental monitoring for air quality and water quality are carried out for the purpose of this EM&A program as well as for fulfilling the requirements stipulated in the relevant licences.

The EM&A monitoring work for air and water quality are described in [Section 2](#) and [Section 3](#) respectively.

The following environmental audits are summarized in [Section 4](#) of the report:

- Environmental monitoring results;
- The status of environmental licensing and permits for the Projects;
- The implementation status of environmental protection and pollution control / mitigation measures.

The future key issues for the Projects will be reported in [Section 5](#) of this report.

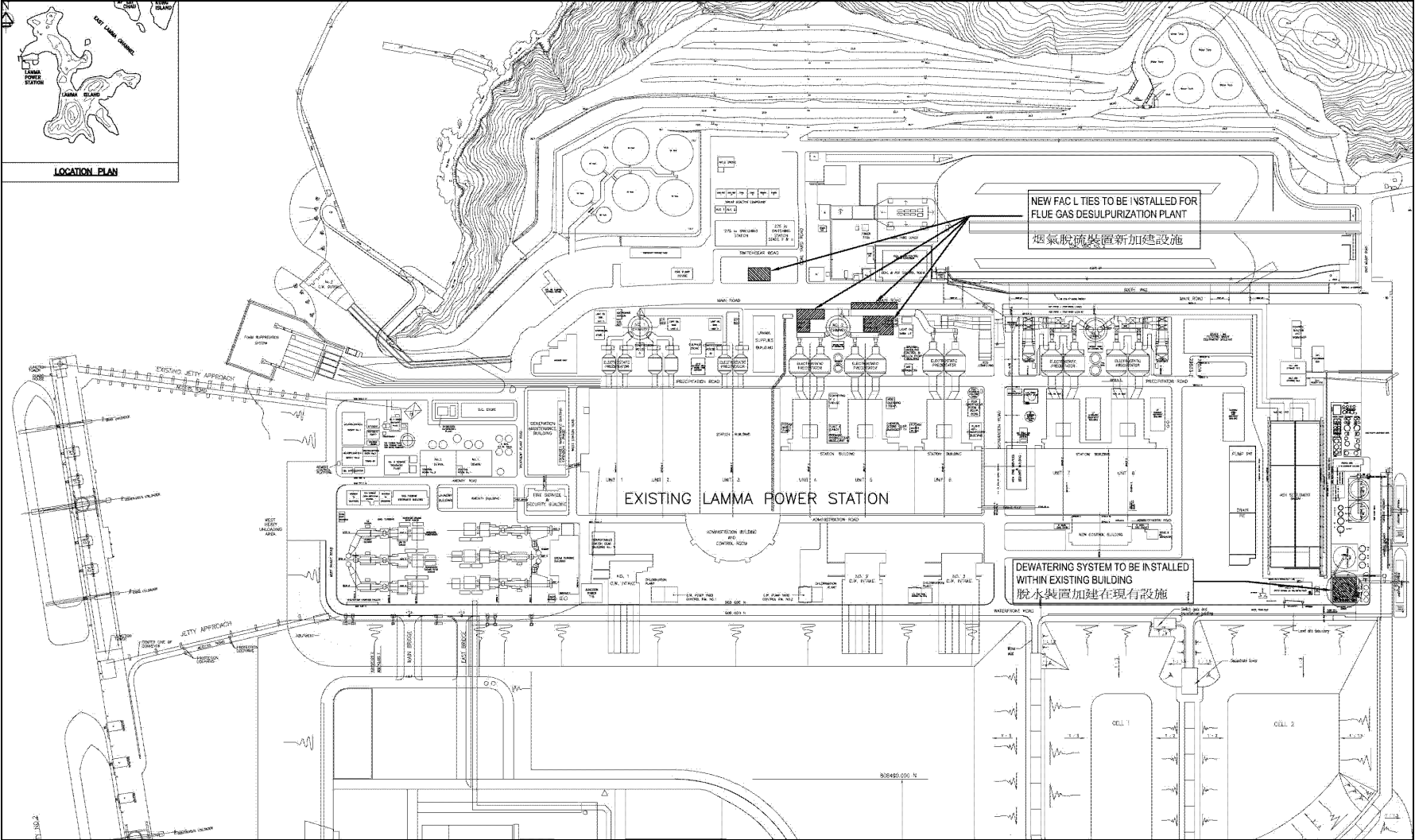


Figure 1.1a Location of New Facilities for L4 & L5 FGD Plants

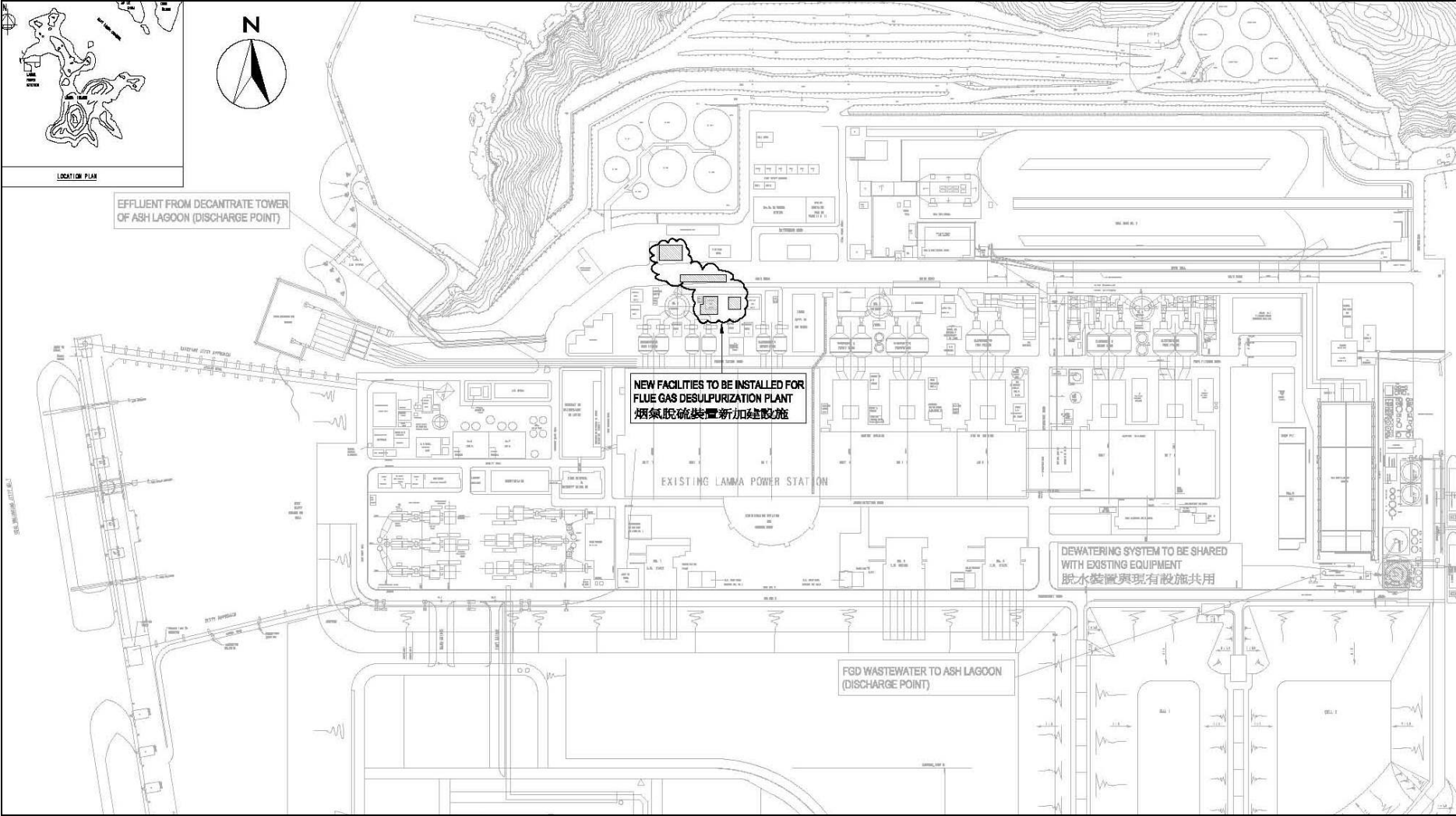


Figure 1.1b Location of New Facilities for L2 FGD Plant

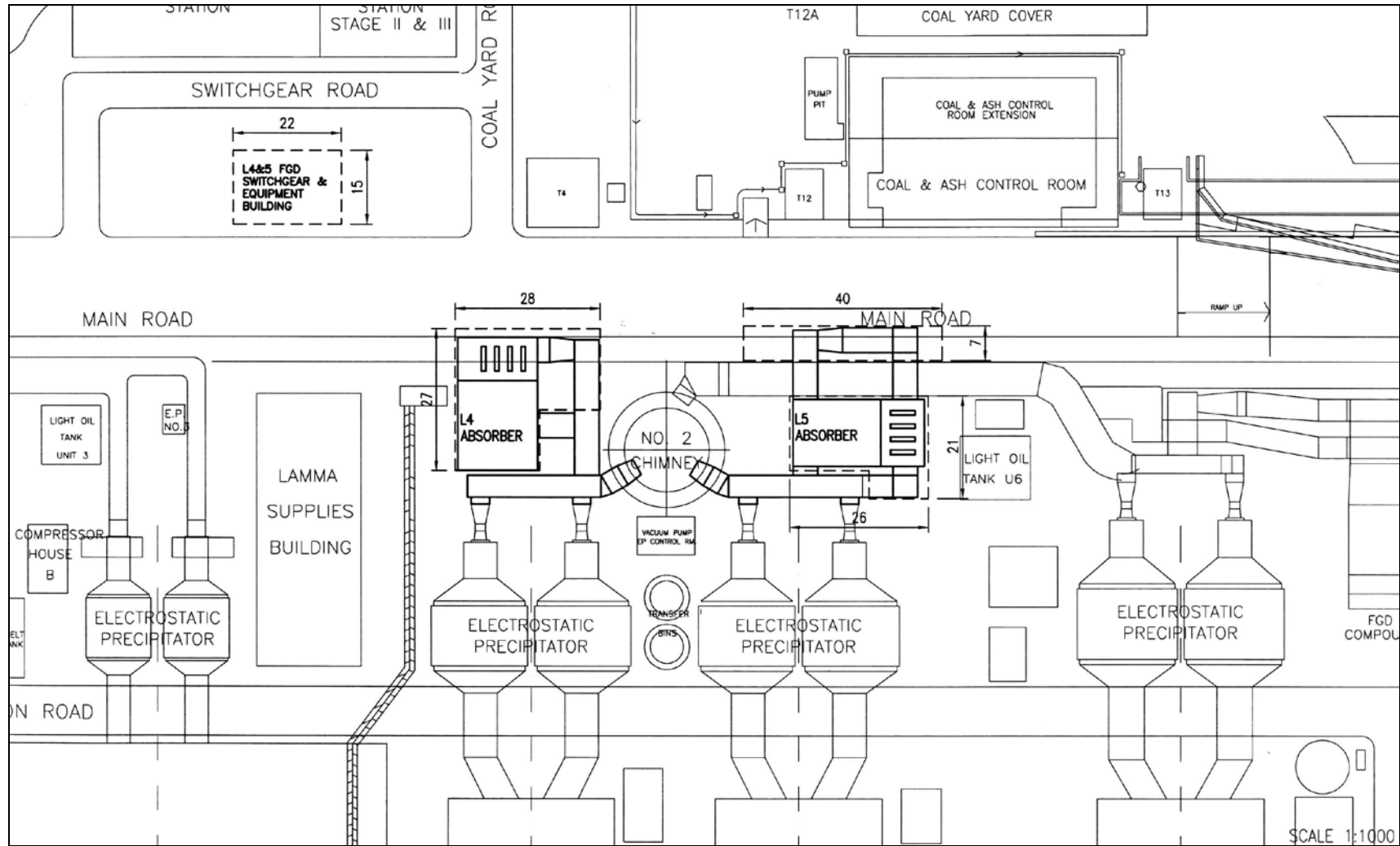


Figure 1.2a General Arrangement of L4 & L5 FGD Plants

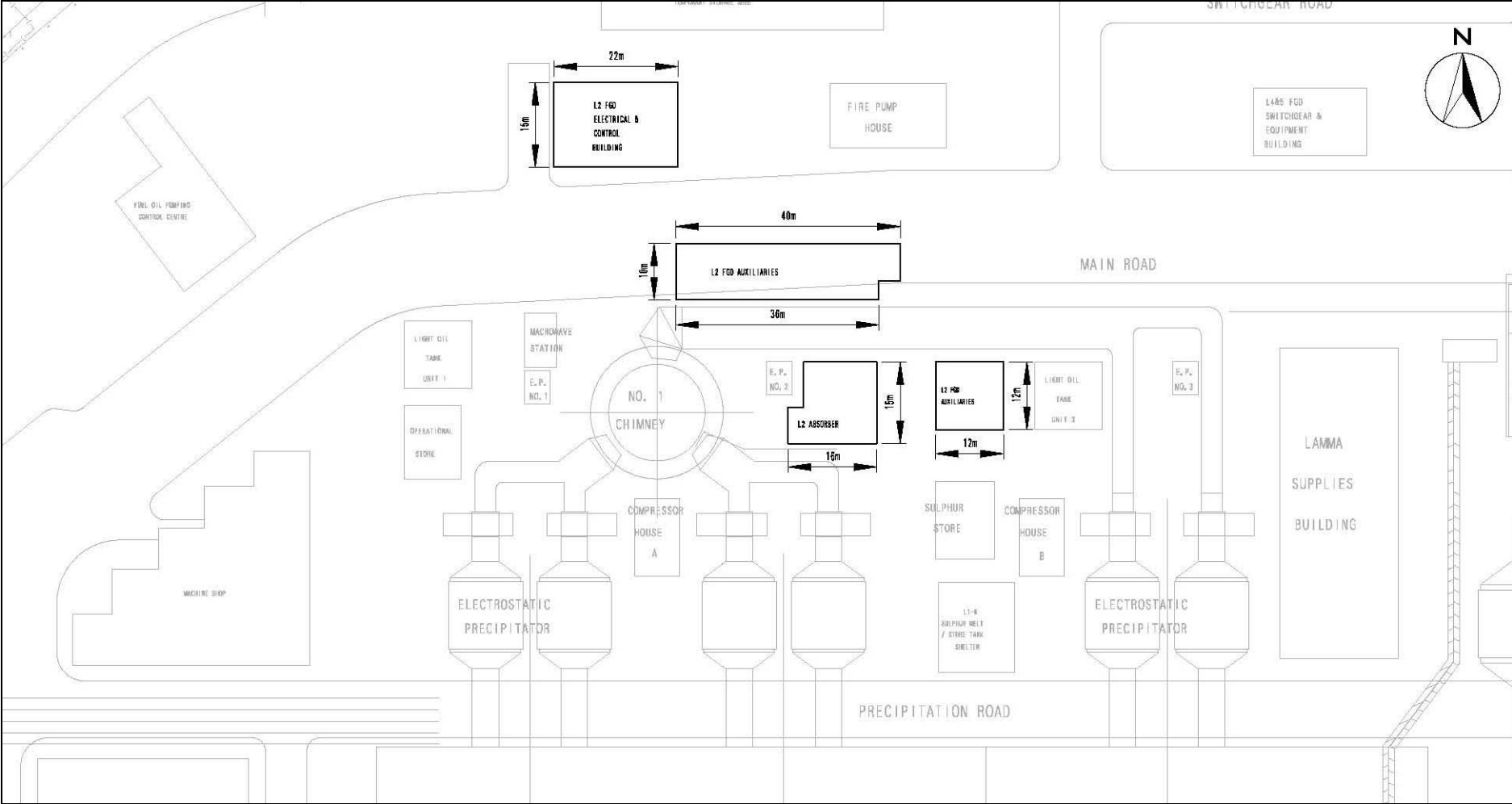


Figure 1.2b General Arrangement of L2 FGD Plant

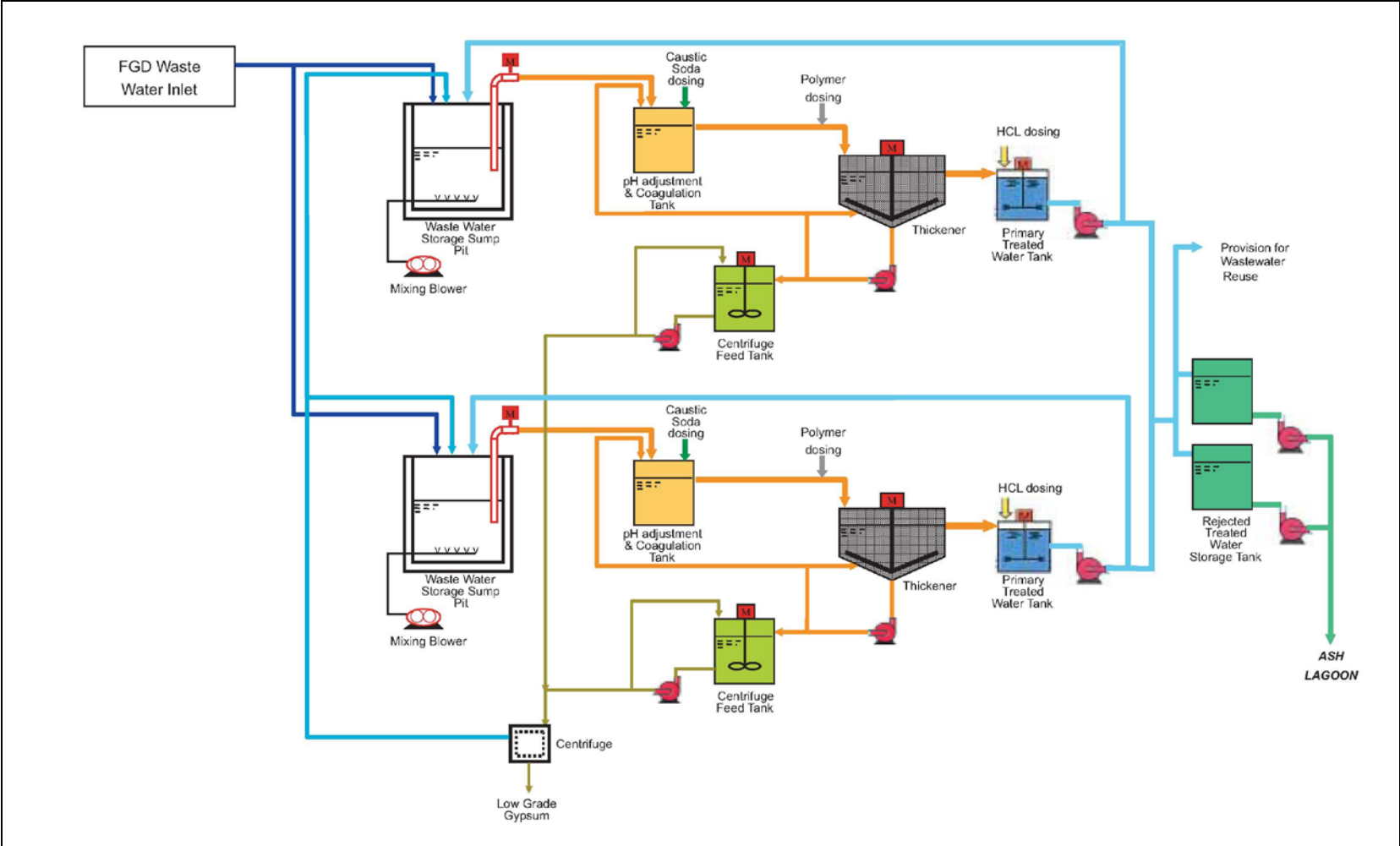


Figure 1.4 Simplified Schematic Diagram of FGD Wastewater Treatment Plant

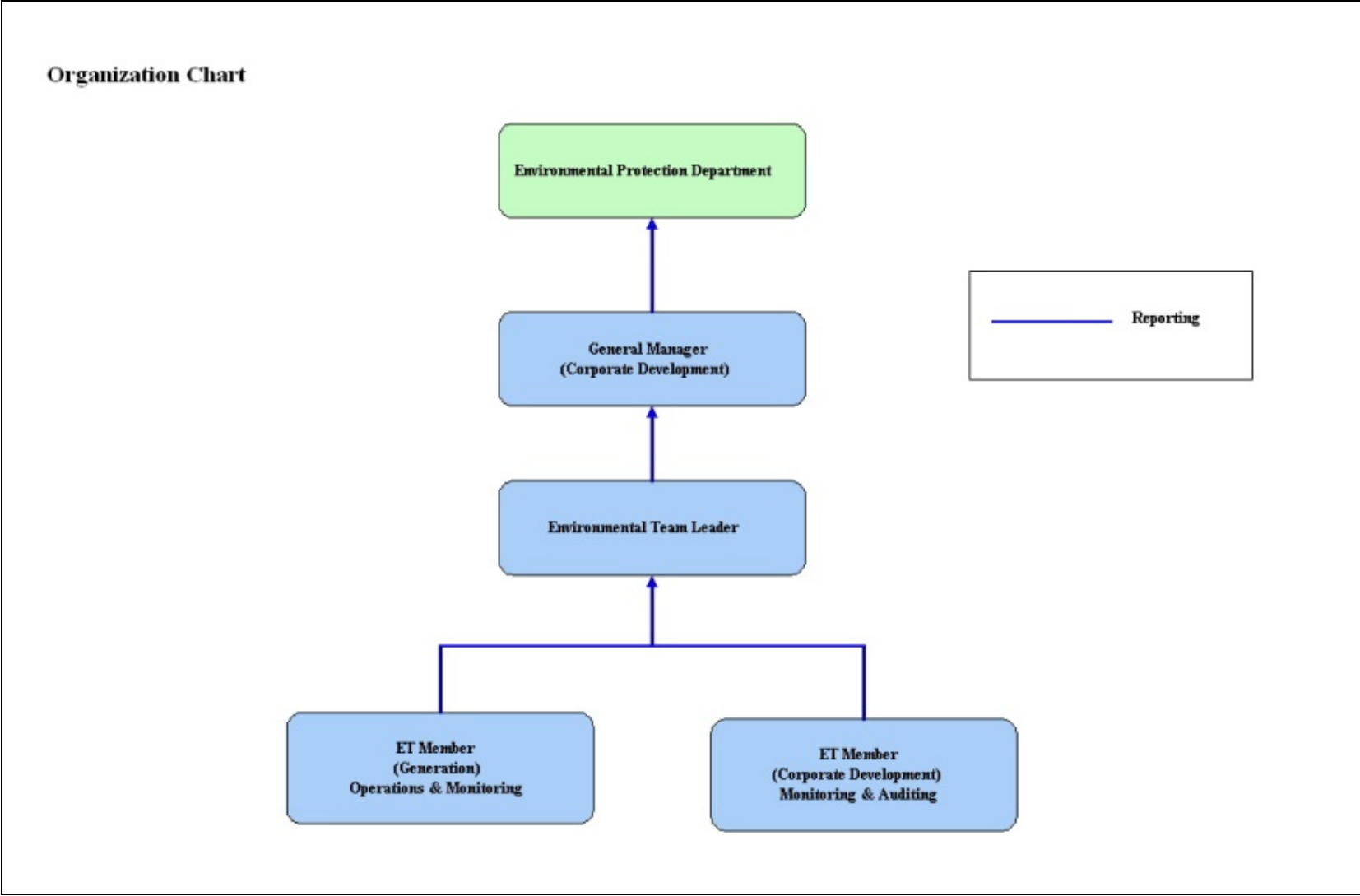


Figure 1.5 Organization Structure at Operational Phase of the Projects

2. AIR QUALITY

2.1 Monitoring Requirements

Since the Projects will bring a general air quality improvement, no additional EM&A activities are considered required, besides those already in place, such as those required by specified process licenses for the operation of the existing Lamma Power Station. Total Suspended Particulate (TSP) monitoring at East Gate and Reservoir area of Lamma Power Station is no longer required under the current SP Licence L-7-002(11) commencing from January 2017. It is agreed with EPD that the results of continuous Respirable Suspended Particulate (RSP) monitoring at Lamma Power Station would be reported. In accordance with the requirements stipulated in the Specified Processes Licence issued under Air Pollution Control Ordinance, various operation parameters as stated in [Table 2.1](#) were monitored. Those parameters have to be checked against the Action/Limit Levels are shown in [Appendix A](#).

Table 2.1 Air Quality Monitoring Parameters and Frequency

Sources of Emission	Parameter	Frequency
Steam boilers L2, L4 & L5	Particulate	Once / year
	Particulate (Opacity)	Continuous
	SO ₂	Continuous
	NO _x expressed as NO ₂ (For L4 and L5 only)	Continuous
Fugitive Dust (Coal, PFA, Limestone, gypsum)	Respirable Suspended Particulate	Continuous
Chimney emissions	Ambient air	Continuous at existing ambient air monitoring stations
	SO ₂	
	NO ₂	

2.2 Summary of Results and Observations

Monitoring of various parameters as listed in [Table 2.1](#) above was conducted during the operation of Units L2, L4 and L5 in the reporting period. A summary of monitoring data is shown in [Appendix B](#).

No Action/Limit Level exceedance was recorded in the reporting period.

3. WATER QUALITY

3.1 Monitoring Requirements

According to the EIA Report/ Project Profile for the Projects, the current monitoring programme for the Lamma Power Station can cover the Projects and no additional EM&A measures are required besides those already in place. Hence, the EM&A work on water quality should strictly follow the relevant monitoring requirements stipulated in the discharge licence for Ash Lagoon issued under the Water Pollution Control Ordinance (WPCO).

Water quality monitoring was carried out for FGD Waste Water Treatment Plant (WWTP) in the reporting period. The parameters stated in [Table 3.1](#) were monitored and checked against the Action/Limit Levels as given in [Appendix A](#).

Table 3.1 Water Quality Monitoring Parameters and Frequencies

Item	Parameters	Frequencies
1	pH	Daily
2	Suspended Solids	Daily
3	Iron	Monthly
4	Barium	Monthly
5	Mercury	Monthly
6	Cadmium	Monthly
7	Cyanide	Monthly
8	Total Phosphorus	Monthly
9	Total Nitrogen	Monthly

3.2 Summary of Results and Observations

Monitoring of various parameters as listed in [Table 3.1](#) above was carried out during the discharge of the WWTP in the reporting period. A summary of the data is shown in [Appendix C](#).

The data recorded for the monitoring parameters were all below their corresponding Action/Limit Levels. No Action/Limit level exceedance was recorded in the reporting period. The effluent quality was generally satisfactory.

4. ENVIRONMENTAL AUDIT

4.1 Review of Environmental Monitoring Procedures

The environmental monitoring procedures were regularly reviewed by the Environmental Team. No modification to the existing monitoring procedures was recommended.

4.2 Assessment of Environmental Monitoring Results

Monitoring results for Air Quality and Water Quality

The environmental monitoring results for air quality and water quality are presented in [Sections 2 and 3](#) respectively are summarized in [Table 4.1](#).

Table 4.1 Summary of Action/Limit Level Exceedances on Monitoring Parameters

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
Air					
1	Annual analysis of dust particulate emission rates at chimney stacks.	01/04/18 30/06/18	N.A.	0	L4, L5 PM stack sampling tests were conducted in the reporting period.
2	Continuous monitoring of opacity, NOx, SO2 and CO2 in the flue gas at the chimney stacks	01/04/18 30/06/18	0	0	
3	Ambient SO2 & NOx monitoring at the Peak, Queen Mary Hospital, Victoria Road, Chung Hom Kok, Ap Lei Chau and Cheung Chau.	01/04/18 30/06/18	0	0	
Water					
1	pH in WWTP Effluent	01/04/18 30/06/18	0	0	
2	Suspended Solids in WWTP Effluent	01/04/18 30/06/18	0	0	

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
3	Iron in WWTP Effluent	01/04/18 30/06/18	0	0	
4	Barium in WWTP Effluent	01/04/18 30/06/18	0	0	
5	Mercury in WWTP Effluent	01/04/18 30/06/18	0	0	
6	Cadmium in WWTP Effluent	01/04/18 30/06/18	0	0	
7	Cyanide in WWTP Effluent	01/04/18 30/06/18	0	0	
8	Total Phosphorus in WWTP Effluent	01/04/18 30/06/18	0	0	
9	Total Nitrogen in WWTP Effluent	01/04/18 30/06/18	0	0	

Waste Management Records

The quantity of FGD gypsum and sludge collected for reuse by contractor in the reporting period are shown in [Table 4.2](#).

Table 4.2 Amount of Gypsum and Sludge Collected for Reuse by Contractor

Period	Amount of Gypsum Collected	Amount of Sludge Collected
April 2018	4,569.82MT	0 MT
May 2018	4,454.47 MT	0 MT
June 2018	5,989.11 MT	117.40 MT

4.3 Status of Environmental Licensing and Permitting

All permits/licenses obtained as of June 2018 are summarised in [Table 4.3](#).

Table 4.3 Summary of Environmental Licensing and Permit Status

Description	Permit / Licence No.	Valid Period		Status
		From	To	

Description	Permit / Licence No.	Valid Period		Status
		From	To	
Environmental Permit for Units L4/5 FGD Plants Retrofit	EP-248/2006	25/04/2006	-	Valid
Environmental Permit for Unit L2 FGD Plant Retrofit	EP-287/2007	02/10/2007	-	Valid
Specified Process Licence issued under APCO	L-7-002(11)	01/01/2017	31/12/2018	Valid
WPCO discharge licence for Ash Lagoon	WT00027218-2017	24/02/2017	31/12/2021	Valid

4.4 Implementation Status of Environmental Mitigation Measures

Mitigation measures detailed in the EIA Report and EP are required to be implemented. A summary of the Environmental Mitigation Implementation Schedule (EMIS) is presented in [Appendix D](#).

4.5 Implementation Status of Event/Action Plan

A list of specific actions in the event of exceedances of the various threshold levels for specific emission and discharge sources is given in [Appendix A](#).

As no Action/Limit level exceedance was recorded, no action has been devised.

4.6 Implementation Status of Environmental Complaint Handling Procedures

During the reporting period, there was one environmental complaint against the operation of Lamma Power Station.

Table 4.4 Environmental Complaint(s) Received

Case Reference / Date, Time Received / Date, Time Concerned	Descriptions / Actions Taken	Conclusion / Status
<p><i>Reference:</i> EC180400208</p> <p><i>Received:</i> 17/04/2018 (16:00)</p>	<p>EPD had received a complaint against “hot and dark effluent from Lamma P/S” and requested HK Electric to look into the matter. HK Electric had carried</p>	<p>No abnormal activity was identified during the concerned period and the</p>

<p>from EPD</p> <p><i>Concerned:</i> 15/04/2018 (11:20)</p>	<p>out a comprehensive investigation. There was no special activity at Lamma P/S during the concerned period. On-site inspections at the plant areas also found no issue of objectionable dirty plant sites, coal or material spillage, or any effluent overflow problems from coal handling and storage area or effluent treatment basins. As there was heavy rain in the morning of 15/04/2018, HK Electric was of the view that the seen dark effluent might be the surface running water due to heavy rainfall. EPD was advised of the findings on 18/04/2018, who also inspected Lamma P/S on 20/04/2018. Information about storm drain outlets at Lamma P/S was also provided to EPD for reference. There was then no further enquiry.</p>	<p>seen dark effluent was believed to be the surface running water due to heavy rainfall. Anyway, the case was not specifically related to the retrofit projects and had been closed.</p>
-----------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Table 4.5 Outstanding Environmental Complaint(s) Carried Over

Case Reference / Date, Time Received / Date, Time Concerned	Descriptions / Actions Taken	Conclusion / Status
Nil	N/A	N/A

5. FUTURE KEY ISSUES

5.1 Outage Plan for the coming 3 months

No major outage plan for the coming three months.

5.2 Key issues for the coming 3 months

Key issues to be considered in the coming 3 months include:

Air Impact

- To continuously carry out the air quality monitoring for Units L2, L4 and L5.

Water Impact

- To continuously carry out the water quality monitoring for FGD Waste Water Treatment Plant.

6. CONCLUSION

Environmental monitoring was performed as required in the reporting period from April to June 2018. All monitoring results were checked and reviewed.

No Action/Limit level exceedance on air quality parameters were recorded in the reporting period.

No Action/Limit level exceedance on water quality parameters were recorded in the reporting period.

Environmental mitigation measures recommended in the EIA Report and EP were implemented in the reporting period.

There was one environmental complaint against the operation of Lamma Power Station during the reporting period. No abnormal activity was identified during the concerned period and the seen dark effluent was believed to be the surface running water due to heavy rainfall. Anyway, the case was not specifically related to the retrofit projects and had been closed.

No prosecution was received for the Projects in the reporting period.

The environmental performance of the Projects was generally satisfactory.

Appendix A Event/Action Plans in Response to Exceedance of AL Levels

A.1 Air

Source of Emissions	Parameters to be Monitored	Frequency	Concentration Not to Be Exceeded	Action	Limit	Proposed Action
Steam boilers L2, L4 and L5	Particulate	once/year	50 mg/Nm ³	-	50	ET Leader informs Generation Division at action level. Maintenance initiated. Temporary load shift until pollution control equipment repaired and reinstated. Report to EPD.
	Particulate (Opacity)	continuous	40% (bihourly)	35	40	
	SO ₂	continuous	200 mg/Nm ³ (1h)	190	200	
	NO _x expressed as NO ₂ (For L4 and L5 only)	continuous	615 mg/Nm ³ (1h)	585	615	
Chimney emissions	Ambient air SO ₂	Continuous at existing ambient air monitoring stations	800 (µg/m ³) (1h)	-	800	ET to review data on post-hoc basis and check for possible power station contribution.
	NO ₂		300 (µg/m ³) (1h)	-	300	

A.2 Water

Source of Discharges	Parameters to be Monitored	Frequency	Concentration Not to Be Exceeded	Action	Limit	Proposed Action
FGD Wastewater Treatment Plant	pH	Daily	6-9	-	6-9	If pH exceeds limit level, consideration to be given to adjust chemical dosing. ET Leader inform Generation Division and investigation be initiated to identify and remedy cause. For all other parameters except pH, Generation Division to be informed, frequency of monitoring to be increased, and investigations to be initiated to identify cause and remedy if concentration exceeds action level. If problem persists to exceed the limit level, ET Leader verbally informs EPD and ensures remedial actions implemented.
	Suspended Solids	Daily	30 mg/L	25	30	
	Iron	Monthly	4 mg/L	3.6	4	
	Barium	Monthly	1.5 mg/L	1.3	1.5	
	Mercury	Monthly	0.005 mg/L	0.0045	0.005	
	Cadmium	Monthly	0.005 mg/L	0.0045	0.005	
	Cyanide	Monthly	0.1 mg/L	0.09	0.1	
	Total Phosphorus	Monthly	8 mg/L	7.2	8	
	Total Nitrogen	Monthly	400 mg/L	360	400	

Appendix B

Air Quality Monitoring Results

B.1 Ambient Respirable Suspended Particulate Monitoring at Lamma Power Station

Date: Second Quarter of 2018 (April - June)

Date	RSP concentration ($\mu\text{g}/\text{m}^3$)	
	Reservoir	East Gate
01/04/2018	39	42
02/04/2018	52	58
03/04/2018	43	43
04/04/2018	44	43
05/04/2018	30	29
06/04/2018	46	43
07/04/2018	95	95
08/04/2018	86	94
09/04/2018	65	70
10/04/2018	36	38
11/04/2018	35	37
12/04/2018	24	22
13/04/2018	17	14
14/04/2018	19	16
15/04/2018	27	32
16/04/2018	25	27
17/04/2018	31	36
18/04/2018	50	54
19/04/2018	42	44
20/04/2018	46	50
21/04/2018	41	44
22/04/2018	37	41
23/04/2018	20	17
24/04/2018	24	19
25/04/2018	34	37
26/04/2018	40	43
27/04/2018	40	41
28/04/2018	41	51
29/04/2018	38	59
30/04/2018	38	36

Date	RSP concentration ($\mu\text{g}/\text{m}^3$)	
	Reservoir	East Gate
01/05/2018	22	23
02/05/2018	26	22
03/05/2018	36	39
04/05/2018	33	33
05/05/2018	38	42
06/05/2018	21	18
07/05/2018	20	16
08/05/2018	20	19
09/05/2018	25	27
10/05/2018	32	47
11/05/2018	45	52
12/05/2018	34	30
13/05/2018	25	24
14/05/2018	21	21
15/05/2018	19	15
16/05/2018	17	14
17/05/2018	21	16
18/05/2018	19	17
19/05/2018	19	16
20/05/2018	19	13
21/05/2018	17	13
22/05/2018	17	14
23/05/2018	22	22
24/05/2018	18	16
25/05/2018	17	16
26/05/2018	23	28
27/05/2018	22	27
28/05/2018	42	49
29/05/2018	24	42
30/05/2018	22	23
31/05/2018	20	20

Date	RSP concentration ($\mu\text{g}/\text{m}^3$)	
	Reservoir	East Gate
01/06/2018	20	22
02/06/2018	24	21
03/06/2018	26	30
04/06/2018	18	21
05/06/2018	15	16
06/06/2018	17	20
07/06/2018	19	21
08/06/2018	23	23
09/06/2018	24	26
10/06/2018	47	45
11/06/2018	48	51
12/06/2018	26	33
13/06/2018	17	15
14/06/2018	35	35
15/06/2018	27	30
16/06/2018	22	25
17/06/2018	26	32
18/06/2018	26	28
19/06/2018	23	25
20/06/2018	23	27
21/06/2018	27	33
22/06/2018	27	24
23/06/2018	27	34
24/06/2018	19	24
25/06/2018	23	20
26/06/2018	22	24
27/06/2018	19	26
28/06/2018	18	34
29/06/2018	23	38
30/06/2018	23	37

B.2 Unit L2, L4 and L5 Stack Monitoring at Lamma Power Station

B.2.1 Monthly Summary of Stack NOx and SO2 for Unit L5

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/4/2018	*	*	*
2/4/2018	47	301	11
3/4/2018	57	329	8
4/4/2018	57	323	9
5/4/2018	37	339	8
6/4/2018	43	310	8
7/4/2018	70	357	8
8/4/2018	43	325	8
9/4/2018	56	338	12
10/4/2018	42	354	8
11/4/2018	42	391	8
12/4/2018	35	341	8
13/4/2018	48	363	8
14/4/2018	29	328	8
15/4/2018	45	372	8
16/4/2018	72	339	9
17/4/2018	72	378	9
18/4/2018	59	368	8
19/4/2018	70	390	9
20/4/2018	68	347	9
21/4/2018	50	376	8
22/4/2018	56	361	8
23/4/2018	56	370	8
24/4/2018	47	321	8
25/4/2018	53	332	8
26/4/2018	77	333	9
27/4/2018	36	411	9
28/4/2018	34	421	8
29/4/2018	*	*	*
30/4/2018	36	291	9

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/5/2018	38	331	9
2/5/2018	41	365	9
3/5/2018	25	372	13
4/5/2018	29	358	8
5/5/2018	43	368	8
6/5/2018	63	371	8
7/5/2018	46	313	11
8/5/2018	46	398	8
9/5/2018	52	343	9
10/5/2018	41	348	9
11/5/2018	46	346	9
12/5/2018	37	375	13
13/5/2018	27	365	13
14/5/2018	26	349	12
15/5/2018	15	423	10
16/5/2018	12	352	16
17/5/2018	13	346	13
18/5/2018	18	373	11
19/5/2018	14	360	13
20/5/2018	24	361	14
21/5/2018	27	361	14
22/5/2018	29	370	15
23/5/2018	53	371	14
24/5/2018	58	391	16
25/5/2018	51	358	13
26/5/2018	51	310	14
27/5/2018	34	367	14
28/5/2018	46	327	20
29/5/2018	50	330	13
30/5/2018	52	364	15
31/5/2018	40	367	13

Date	Daily Maximum		
	SO ₂ concentration (mg/Nm ³) [#]	NO _x concentration (mg/Nm ³) [#]	Opacity (%)
1/6/2018	64	365	15
2/6/2018	52	328	16
3/6/2018	68	325	15
4/6/2018	36	335	13
5/6/2018	35	393	13
6/6/2018	32	396	14
7/6/2018	55	358	12
8/6/2018	40	354	11
9/6/2018	35	360	13
10/6/2018	43	355	12
11/6/2018	24	370	15
12/6/2018	30	388	12
13/6/2018	28	372	12
14/6/2018	27	385	16
15/6/2018	28	366	16
16/6/2018	26	368	14
17/6/2018	24	367	12
18/6/2018	23	338	17
19/6/2018	32	347	17
20/6/2018	24	388	19
21/6/2018	18	376	18
22/6/2018	17	379	17
23/6/2018	24	393	15
24/6/2018	36	374	14
25/6/2018	49	377	17
26/6/2018	58	368	16
27/6/2018	32	320	18
28/6/2018	47	392	18
29/6/2018	46	373	17
30/6/2018	31	462	19

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO₂ condition.

* - Unit L5 was not on load

B.2.2 Monthly Summary of Stack NOx and SO2 for Unit L4

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/4/2018	57	308	14
2/4/2018	37	324	15
3/4/2018	57	311	24
4/4/2018	65	329	23
5/4/2018	33	377	7
6/4/2018	52	338	7
7/4/2018	44	375	9
8/4/2018	29	318	12
9/4/2018	44	325	17
10/4/2018	56	394	18
11/4/2018	54	354	7
12/4/2018	62	428	10
13/4/2018	26	394	14
14/4/2018	47	358	7
15/4/2018	43	384	7
16/4/2018	44	371	16
17/4/2018	52	378	13
18/4/2018	43	398	13
19/4/2018	60	399	19
20/4/2018	77	443	17
21/4/2018	55	408	8
22/4/2018	56	323	6
23/4/2018	60	357	7
24/4/2018	44	292	7
25/4/2018	41	322	7
26/4/2018	59	339	7
27/4/2018	44	368	13
28/4/2018	31	393	7
29/4/2018	39	347	9
30/4/2018	43	387	14

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/5/2018	33	315	11
2/5/2018	21	351	15
3/5/2018	34	371	16
4/5/2018	32	375	18
5/5/2018	41	319	11
6/5/2018	36	301	8
7/5/2018	45	310	7
8/5/2018	21	340	7
9/5/2018	30	269	8
10/5/2018	53	357	13
11/5/2018	91	348	19
12/5/2018	50	369	17
13/5/2018	31	359	13
14/5/2018	27	407	17
15/5/2018	17	393	18
16/5/2018	23	364	19
17/5/2018	30	413	20
18/5/2018	31	410	18
19/5/2018	30	439	19
20/5/2018	27	393	19
21/5/2018	38	374	23
22/5/2018	46	328	15
23/5/2018	37	350	17
24/5/2018	74	307	21
25/5/2018	86	336	24
26/5/2018	74	358	24
27/5/2018	36	373	24
28/5/2018	37	368	23
29/5/2018	50	372	23
30/5/2018	44	387	21
31/5/2018	59	372	20

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/6/2018	68	361	20
2/6/2018	38	376	19
3/6/2018	35	363	17
4/6/2018	18	397	16
5/6/2018	21	380	14
6/6/2018	34	380	13
7/6/2018	32	361	15
8/6/2018	36	383	14
9/6/2018	25	415	13
10/6/2018	36	374	16
11/6/2018	27	381	15
12/6/2018	33	359	12
13/6/2018	31	381	13
14/6/2018	21	371	19
15/6/2018	20	371	19
16/6/2018	21	363	22
17/6/2018	31	345	17
18/6/2018	29	378	21
19/6/2018	39	351	22
20/6/2018	26	352	23
21/6/2018	34	318	24
22/6/2018	23	365	23
23/6/2018	27	352	19
24/6/2018	37	328	13
25/6/2018	40	357	22
26/6/2018	41	356	25
27/6/2018	39	328	26
28/6/2018	40	320	22
29/6/2018	35	321	23
30/6/2018	31	382	19

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO₂ condition.

* - Unit L4 was not on load.

B.2.3 Monthly Summary of Stack SO₂ for Unit L2

Date	Daily Maximum	
	SO ₂ concentration (mg/Nm ³) [#]	Opacity (%)
1/4/2018	88	14
2/4/2018	85	11
3/4/2018	80	10
4/4/2018	93	11
5/4/2018	*	*
6/4/2018	73	10
7/4/2018	*	*
8/4/2018	*	*
9/4/2018	*	*
10/4/2018	*	*
11/4/2018	80	10
12/4/2018	*	*
13/4/2018	86	12
14/4/2018	81	9
15/4/2018	*	*
16/4/2018	*	*
17/4/2018	*	*
18/4/2018	*	*
19/4/2018	*	*
20/4/2018	*	*
21/4/2018	*	*
22/4/2018	*	*
23/4/2018	116	11
24/4/2018	82	11
25/4/2018	74	9
26/4/2018	70	9
27/4/2018	46	10
28/4/2018	63	10
29/4/2018	*	*
30/4/2018	*	*

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) [#]	Opacity (%)
1/5/2018	*	*
2/5/2018	64	11
3/5/2018	69	10
4/5/2018	*	*
5/5/2018	*	*
6/5/2018	*	*
7/5/2018	72	10
8/5/2018	*	*
9/5/2018	*	*
10/5/2018	*	*
11/5/2018	*	*
12/5/2018	*	*
13/5/2018	*	*
14/5/2018	61	12
15/5/2018	63	10
16/5/2018	54	9
17/5/2018	*	*
18/5/2018	113	11
19/5/2018	82	12
20/5/2018	61	11
21/5/2018	128	13
22/5/2018	*	*
23/5/2018	100	13
24/5/2018	119	11
25/5/2018	63	12
26/5/2018	61	14
27/5/2018	*	*
28/5/2018	76	11
29/5/2018	45	12
30/5/2018	71	14
31/5/2018	64	14

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) [#]	Opacity (%)
1/6/2018	58	13
2/6/2018	53	10
3/6/2018	*	*
4/6/2018	47	12
5/6/2018	51	11
6/6/2018	*	*
7/6/2018	*	*
8/6/2018	*	*
9/6/2018	*	*
10/6/2018	*	*
11/6/2018	40	16
12/6/2018	45	13
13/6/2018	34	12
14/6/2018	FGD plant outage	13
15/6/2018	FGD plant outage	12
16/6/2018	*	*
17/6/2018	*	*
18/6/2018	*	*
19/6/2018	31	13
20/6/2018	43	12
21/6/2018	38	12
22/6/2018	53	12
23/6/2018	*	*
24/6/2018	*	*
25/6/2018	33	13
26/6/2018	37	12
27/6/2018	40	13
28/6/2018	45	12
29/6/2018	46	12
30/6/2018	43	12

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO₂ condition.

* - Unit L2 was not on load.

B.2.4 Summary of Annual Stack Particulate Sampling

Unit	Date	Results (mg/Nm ³)
L4	16/04/2018	10
L5	26/04/2018	8

Monitoring Equipment: APEX model XC-522-V (Manual stack sampling system)

B.3 Ambient SO₂ and NO₂ monitoring Data at Southern District and Cheung Chau

THE HONGKONG ELECTRIC COMPANY, LTD.
 AIR QUALITY DATA MONTHLY TIME SERIES REPORT
 MONTH: APRIL

STATION : VICTORIA PEAK
 POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018
 UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	3	3	3	2	2	2	2	2	4	3	7	3	4	3	3	5	6	4	4	5	4	3	4	5	4
2	4	9	13	9	11	9	15	17	14	14	18	24	13	16	16	31	16	17	16	7	5	4	4	5	13
3	4	5	4	6	5	5	5	3	4	4	3	4	4	5	9	8	10	5	6	5	3	6	8	8	5
4	7	5	4	3	5	3	3	4	4	4	5	3	3	4	4	4	4	4	4	7	7	6	5	8	5
5	7	6	6	4	4	4	3	3	4	5	5	6	4	6	5	5	4	5	4	4	5	4	4	7	5
6	5	6	4	4	5	5	5	4	9	10	9	12	16	15	7	6	5	5	4	4	3	3	4	5	6
7	4	4	3	3	3	3	4	4	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	7	5
8	6	6	5	6	6	5	6	6	10	9	7	7	6	6	7	7	7	7	5	5	6	6	10	9	7
9	8	9	8	8	8	6	6	6	8	8	7	5	5	5	5	5	6	6	7	6	6	6	5	7	7
10	6	6	6	5	5	5	5	5	5	5	5	4	5	5	5	5	5	5	5	5	5	5	5	6	5
11	6	5	5	5	5	5	5	5	5	5	5	6	9	23	16	12	12	11	13	10	7	6	6	5	8
12	5	6	5	6	6	6	6	6	6	6	7	8	10	10	7	16	9	20	10	12	7	7	6	7	8
13	6	6	7	6	6	5	6	6	6	7	7	7	8	12	11	12	12	9	10	13	11	9	8	10	8
14	9	9	9	9	8	8	9	9	10	10	12	12	13	15	17	15	21	19	27	17	20	13	18	30	14
15	24	17	24	17	18	16	14	4	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	50	8
16	32	17	9	5	3	2	1	1	1	1	1	1	1	1	M	M	9	7	5	4	4	4	0	5	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0	0	0	1	1	0	1	0
18	1	1	2	1	2	0	0	0	0	1	1	0	1	1	1	1	1	1	3	1	1	1	0	2	1
19	2	2	4	3	1	3	2	3	3	3	3	3	3	3	3	4	3	2	4	3	3	6	4	2	3
20	2	2	1	1	2	4	3	2	1	2	1	1	1	1	1	1	0	0	1	0	0	0	0	1	1
21	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
22	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	4	2	5	2	3	36	34	31	105	10
24	41	4	2	1	1	1	5	71	19	11	5	2	1	2	3	7	9	12	7	4	3	3	2	2	9
25	2	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	2	1
26	0	1	1	1	1	1	1	2	1	1	2	2	1	1	1	1	1	0	1	0	0	1	2	1	1
27	0	1	1	0	0	0	1	0	1	0	1	1	3	8	4	2	2	1	3	2	2	0	4	2	2
28	5	5	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	4	2	1	1	1	1
29	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	2	1	1	1	0	0	1	1	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	2	1	0	0	0	0	0	1	0

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
4	3	5	3	10	16	22	31	0	-	105	0	-	14	3	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: APRIL

STATION : VICTORIA PEAK
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	3	2	2	1	1	2	6	9	7	10	21	11	9	7	6	17	19	14	12	10	7	3	46	12	10
2	19	42	11	8	10	5	16	21	16	24	29	31	14	15	18	23	20	24	47	23	17	16	10	8	19
3	8	4	3	8	4	4	5	10	19	14	14	8	9	8	14	20	25	18	22	16	11	15	17	10	12
4	8	M	2	0	1	0	0	6	12	10	14	8	7	7	8	15	13	18	10	15	12	5	6	9	8
5	7	2	4	2	0	1	1	2	3	5	5	6	5	7	6	8	18	22	12	12	8	18	5	4	7
6	1	9	1	5	11	28	28	28	47	48	44	49	61	73	43	44	45	30	28	23	18	18	23	19	30
7	14	7	2	0	0	1	6	20	35	37	37	38	39	34	31	30	26	37	40	30	29	38	30	34	25
8	33	28	20	15	15	15	18	28	32	27	13	15	17	11	11	12	14	22	27	14	15	13	12	4	18
9	4	5	7	3	2	2	4	12	32	42	33	16	9	13	9	7	8	5	4	4	3	2	0	1	9
10	0	0	0	0	0	0	0	7	24	12	10	5	3	7	10	9	11	9	5	0	0	0	0	0	5
11	0	0	0	0	0	0	1	2	10	10	11	8	12	9	21	19	23	22	31	21	3	0	0	0	8
12	1	0	0	0	0	0	1	2	8	7	7	7	8	8	4	4	7	16	13	16	6	4	0	1	5
13	0	0	0	0	0	0	0	0	3	6	7	3	0	4	1	5	9	5	7	13	6	2	0	3	3
14	0	0	0	0	0	0	0	2	2	1	12	4	4	6	10	7	15	10	20	18	13	6	8	22	7
15	39	36	42	40	40	37	31	25	21	28	21	18	14	21	19	22	35	31	37	46	46	49	30	43	32
16	38	28	18	7	3	1	18	23	43	45	37	30	37	38	46	46	52	58	66	68	47	62	67	57	39
17	35	32	44	17	17	17	14	34	51	52	57	49	35	37	37	44	55	65	33	16	18	8	6	5	32
18	5	M	2	0	2	1	2	8	11	17	15	8	14	11	11	8	11	9	5	5	3	3	1	6	7
19	10	4	6	5	2	1	5	16	19	13	7	18	6	7	12	20	29	19	16	8	12	8	5	1	10
20	1	1	0	0	0	1	3	4	3	13	5	2	2	3	1	2	3	4	1	0	0	0	0	0	2
21	0	1	0	0	0	0	0	2	7	12	9	5	1	8	8	3	1	0	0	0	0	0	0	0	3
22	0	0	0	0	0	0	0	0	1	3	1	0	2	0	1	4	2	3	2	0	0	0	0	0	1
23	1	0	0	0	0	0	0	2	3	5	2	3	3	2	11	7	12	20	15	20	16	13	8	26	7
24	27	0	0	0	0	0	9	30	11	16	19	22	41	53	58	58	66	65	75	73	74	71	55	44	36
25	40	42	39	31	17	14	16	20	18	16	21	23	23	13	11	14	10	9	8	5	1	1	3	10	17
26	3	2	2	2	1	1	5	8	10	13	15	10	10	18	32	33	33	27	27	14	22	21	9	7	14
27	9	6	3	2	1	1	4	15	40	55	45	42	29	37	32	28	44	54	69	64	50	13	15	3	28
28	11	7	0	0	0	0	0	1	3	11	7	1	3	1	0	2	0	0	0	0	13	4	1	0	3
29	0	0	0	0	0	0	0	1	1	0	4	0	0	0	4	16	21	23	5	6	2	1	0	0	4
30	0	0	0	0	0	0	0	5	10	7	5	8	13	3	4	7	23	17	4	7	9	2	2	2	5

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
10	8	14	8	37	46	60	67	0	-	75	1	-	39	3	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 200

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH: APRIL

YEAR : 2018

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	1	1	1	1	1	1	2	2	1	2	3	2	2	3	6	3	3	5	5	8	6	6	10	3
2	11	12	12	10	5	6	10	9	13	12	11	11	4	6	7	16	15	22	18	19	18	25	22	21	13
3	17	21	23	16	10	12	17	8	6	3	2	3	5	5	16	7	13	8	7	4	5	7	5	7	9
4	5	3	3	3	2	1	2	2	4	2	1	1	1	1	1	1	1	1	4	4	2	2	3	5	2
5	4	4	4	2	2	2	1	2	3	4	6	2	2	3	2	1	1	2	1	1	3	2	3	2	2
6	3	2	3	2	1	1	1	1	12	62	27	21	35	11	4	3	3	2	2	1	1	2	2	1	8
7	1	1	0	0	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	4	4	3	3	2
8	3	3	3	3	3	3	4	4	4	3	3	3	3	4	4	3	3	3	4	7	9	7	5	4	
9	4	4	3	3	3	2	3	4	4	3	3	3	2	2	3	3	4	5	4	2	2	3	2	2	3
10	2	2	2	2	2	2	2	3	4	3	3	3	2	2	2	1	1	2	2	1	1	3	3	4	2
11	3	2	2	2	1	1	2	2	2	4	4	5	3	2	8	8	8	7	5	3	4	2	3	3	4
12	2	3	3	3	2	3	4	5	6	5	7	12	10	13	4	5	6	8	8	5	3	4	5	3	5
13	3	4	6	5	4	5	6	6	8	7	6	6	7	8	9	6	6	5	6	6	5	4	4	5	6
14	5	5	11	5	8	6	10	12	10	7	5	4	5	10	11	16	14	7	10	6	3	3	5	5	8
15	5	6	9	6	4	3	2	3	3	4	3	1	0	0	1	1	1	1	0	0	1	0	0	0	2
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	2	1	1	2	1
18	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	1	2	2	2	2	1	3	1	2	2
19	2	1	3	2	1	2	2	2	2	2	2	2	2	2	3	3	2	2	2	1	3	2	2	2	2
20	2	3	2	3	4	4	5	3	2	3	2	2	2	2	1	1	1	1	1	2	2	1	3	2	2
21	4	3	2	2	1	2	1	1	1	2	3	3	4	3	3	3	2	1	3	2	2	1	5	5	2
22	4	5	5	4	3	4	3	6	6	5	5	4	3	7	8	5	7	7	6	4	5	4	3	3	5
23	2	3	3	2	3	3	3	1	2	2	1	2	12	4	13	11	5	6	7	8	2	1	5	20	5
24	16	21	15	13	6	6	6	5	6	8	6	2	3	3	3	12	8	7	7	8	12	13	14	42	10
25	31	7	8	7	6	3	2	2	2	2	2	1	1	1	1	0	1	1	2	2	2	2	1	4	
26	1	1	1	0	1	1	1	1	1	1	2	2	1	0	0	0	0	0	0	1	1	1	1	0	1
27	1	2	1	1	1	1	1	1	2	1	1	1	1	1	1	1	3	6	4	1	1	5	12	9	2
28	10	7	5	4	3	3	2	1	1	2	2	1	1	1	1	2	2	1	1	1	6	3	3	1	3
29	1	1	2	1	1	1	1	2	2	1	2	2	2	5	5	3	3	3	2	3	2	3	4	3	2
30	1	1	1	1	1	1	1	1	3	3	3	5	5	4	3	3	4	2	4	7	4	2	4	1	3

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
3	3	4	3	8	12	19	22	0	-	62	0	-	13	2	100	0

NOTES:

1. FLAGS FOR INVALID DATA :
 - D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH: APRIL

YEAR : 2018

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	8	6	7	8	8	7	7	9	9	5	8	7	7	6	8	14	11	14	19	15	15	9	10	12	10
2	14	21	28	29	8	9	15	18	21	15	15	14	7	9	8	13	19	23	30	27	19	21	22	28	18
3	24	23	17	13	10	11	20	15	11	9	6	8	7	19	7	15	13	18	16	13	19	14	14	21	14
4	16	M	9	7	7	6	8	15	12	8	5	6	5	5	8	8	8	9	19	25	17	16	18	14	11
5	10	9	10	6	7	7	7	10	11	11	12	7	7	8	8	10	8	10	15	11	10	9	10	9	9
6	8	8	8	7	6	7	7	9	17	51	41	38	41	52	24	27	23	26	19	18	19	17	11	10	21
7	10	5	3	3	2	3	4	6	7	9	10	10	9	11	11	12	11	14	14	13	11	10	10	8	9
8	9	7	6	5	5	6	8	8	9	9	9	9	8	9	10	10	13	14	16	10	13	15	15	11	10
9	9	9	10	8	8	7	8	12	13	9	8	8	7	7	8	9	9	13	14	12	10	12	10	10	10
10	8	8	8	7	6	7	8	13	16	9	9	7	7	6	7	7	8	11	9	10	7	10	8	12	9
11	8	8	6	6	4	5	9	13	15	12	11	11	6	6	12	16	16	17	18	20	14	11	17	11	11
12	9	11	11	15	10	13	19	23	19	13	9	13	13	15	6	10	11	17	26	22	14	16	23	9	14
13	15	17	19	20	12	18	26	24	18	13	10	10	11	11	9	7	8	11	20	25	23	17	16	14	16
14	13	12	27	13	20	15	25	25	14	7	5	4	6	11	10	24	22	20	29	27	15	16	21	21	17
15	18	38	50	47	46	46	43	39	35	33	31	27	24	12	9	13	12	12	19	23	27	21	7	7	27
16	21	26	12	6	5	5	7	9	13	11	10	11	12	13	16	16	29	36	32	28	20	25	29	22	17
17	18	17	7	7	4	5	4	13	11	12	15	17	15	11	10	12	9	8	9	7	9	8	7	7	10
18	7	M	6	6	6	4	6	8	6	7	8	8	6	6	7	10	9	15	14	10	9	11	9	6	8
19	6	6	7	6	5	5	7	9	7	6	4	4	4	5	7	8	7	8	6	4	9	7	6	5	6
20	6	5	3	5	6	7	10	9	6	9	5	5	5	7	6	7	9	7	7	5	8	8	5	7	7
21	7	7	5	4	3	5	4	4	5	6	5	5	7	4	5	7	7	6	6	6	5	7	12	11	6
22	8	9	9	7	5	10	9	15	15	10	9	8	5	10	11	6	13	15	13	10	12	11	13	12	10
23	10	14	12	8	12	7	9	7	7	7	4	3	8	5	13	13	10	18	20	25	11	2	11	32	11
24	30	30	26	16	6	9	19	23	26	28	24	32	44	49	34	45	37	47	56	58	65	70	70	79	38
25	67	38	39	42	52	17	8	10	9	7	8	7	6	5	5	7	5	6	4	6	7	6	6	4	15
26	3	4	3	3	3	4	5	10	8	8	12	8	6	5	8	9	7	5	5	8	5	5	5	3	6
27	2	3	4	4	3	6	6	10	10	17	15	9	6	9	13	9	10	16	16	7	4	11	28	10	10
28	11	8	4	5	2	3	4	6	7	7	6	5	4	3	2	5	8	7	8	7	21	8	7	4	6
29	4	2	3	3	2	3	3	4	5	3	8	6	5	6	5	6	7	8	11	15	9	11	10	7	6
30	3	2	0	1	1	3	4	8	16	10	6	9	9	7	4	5	8	10	12	18	14	11	17	11	8

MONTHLY STATISTICS:

GEOM		ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
10	9	12	9	23	30	46	52	0	-	79	6	-	38	2	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH: APRIL

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	4	5	6	10	12	7	10	22	23	10	6	5	10	7	9	8	8	7	6	7	7	6	6	9
2	5	9	8	8	8	6	6	8	20	19	31	19	9	11	13	17	15	19	14	9	9	6	7	6	12
3	4	4	4	4	6	7	7	7	6	5	4	7	8	6	15	10	12	7	13	6	5	6	7	6	7
4	6	6	4	6	4	5	5	7	10	17	15	16	6	4	4	4	4	3	4	7	5	5	4	5	7
5	6	6	6	5	4	4	4	11	12	4	5	7	5	6	6	5	4	4	4	4	4	4	5	4	5
6	3	4	3	3	3	4	3	4	30	32	11	13	11	12	5	4	3	3	3	3	2	2	2	3	7
7	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	4	4	4	3	3	4	4	4	4	3
8	3	4	4	4	3	4	4	4	4	5	4	4	4	4	4	4	4	4	4	3	4	4	5	5	4
9	5	4	4	4	4	4	4	5	6	6	8	4	4	3	3	4	6	5	5	4	4	4	3	4	4
10	4	5	4	4	3	4	3	4	4	4	4	4	5	4	3	4	4	4	3	4	4	3	3	3	4
11	4	6	8	4	4	4	4	4	4	4	4	5	6	7	13	10	11	11	16	10	6	5	4	4	7
12	3	4	4	5	4	4	4	4	5	5	6	11	9	5	8	10	10	10	11	6	4	4	4	6	6
13	4	4	5	4	4	4	5	4	4	4	4	4	6	14	9	14	10	11	10	11	7	6	5	5	7
14	5	7	5	6	6	5	7	5	7	5	6	6	9	11	10	9	9	6	8	4	6	5	5	6	7
15	11	12	12	8	10	9	7	5	6	5	4	3	4	4	4	3	8	3	3	3	2	3	3	5	6
16	3	3	2	3	3	3	3	3	3	3	3	2	3	3	2	3	8	4	3	3	4	4	3	4	3
17	3	3	3	4	3	3	2	2	3	3	3	3	4	7	3	8	9	9	7	3	3	4	2	4	4
18	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4	5	4	4	5	4	4	4	4
19	4	4	4	4	4	4	4	4	4	4	4	4	5	4	5	4	3	4	4	4	4	4	4	4	4
20	4	4	4	3	4	4	5	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	4	3	4
21	3	3	2	3	3	2	2	2	3	3	2	3	3	3	3	3	3	3	3	3	2	2	2	4	3
22	4	4	4	4	3	3	4	4	5	4	4	4	3	4	4	4	4	4	4	4	4	4	4	3	4
23	3	3	3	3	4	4	T	T	T	T	T	T	T	4	8	6	7	8	5	10	3	3	4	11	5
24	10	6	5	4	5	5	11	9	8	9	26	7	6	8	15	17	18	15	16	13	29	12	10	6	11
25	6	11	9	15	12	8	7	5	3	4	3	2	2	2	3	3	2	3	3	3	3	3	3	3	5
26	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	9	8	4	4	4	4
27	16	9	7	8	10	8	12	10	14	13	21	13	7	20	6	13	12	8	11	15	7	5	12	6	11
28	18	17	6	5	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	4	5	4	3	5	5
29	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	5	4	3	4	4	3	3	4	3	3
30	3	3	3	3	3	3	3	4	5	4	3	M	M	M	M	M	M	M	M	M	M	M	M	M	

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
5	4	6	4	10	13	18	21	2	-	32	3	-	12	2	97	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH: APRIL

YEAR : 2018

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	0	0	2	14	21	11	15	21	24	7	2	0	5	3	2	6	9	13	11	8	11	13	18	9
2	10	8	7	7	4	10	15	19	25	18	32	19	6	8	7	9	9	13	15	19	19	5	8	11	13
3	2	1	0	0	0	0	6	10	7	1	0	2	4	0	13	3	5	1	15	15	14	8	7	2	5
4	0	M	0	11	0	4	14	19	20	18	10	11	2	0	0	0	3	8	11	5	1	1	4	6	
5	2	0	0	0	1	1	9	20	19	3	3	1	1	1	2	3	1	2	5	3	4	2	4	3	4
6	2	2	0	1	5	15	14	16	22	27	26	33	32	41	29	20	16	11	13	9	7	6	7	5	15
7	1	0	0	0	0	0	1	2	4	6	6	5	5	4	4	5	3	7	8	6	6	5	6	12	4
8	11	6	4	4	3	3	6	10	14	10	4	6	4	5	5	6	5	7	9	11	14	16	16	8	8
9	4	2	1	0	0	3	11	19	18	14	19	5	6	4	6	11	19	8	8	5	3	3	2	4	7
10	2	2	1	0	0	0	2	7	8	8	5	4	6	2	2	6	7	8	9	6	7	4	2	5	4
11	2	11	19	1	0	0	3	8	15	7	3	4	4	6	14	13	14	21	37	22	13	8	5	10	10
12	3	4	2	1	2	2	6	12	10	7	7	7	12	9	4	8	14	14	24	20	13	9	5	8	8
13	2	4	5	1	2	2	8	10	7	6	4	5	7	13	11	16	14	14	18	21	13	11	9	10	9
14	7	11	8	8	8	7	14	11	10	9	8	8	7	10	9	11	11	8	14	16	19	12	17	18	11
15	28	27	23	22	23	23	18	13	12	14	13	10	14	15	13	14	23	17	18	18	22	25	23	27	19
16	16	18	13	11	3	11	15	19	22	22	24	19	21	21	22	28	35	33	32	29	32	37	34	37	23
17	33	31	26	26	17	12	14	16	24	28	28	25	22	18	9	26	21	26	26	12	9	8	9	8	20
18	5	M	3	2	2	3	7	8	7	8	9	7	8	9	9	10	14	19	13	10	11	7	10	4	8
19	4	1	0	0	0	0	8	9	8	6	4	3	7	5	6	7	8	10	13	11	12	12	4	2	6
20	0	0	0	0	0	0	2	3	3	2	2	0	0	0	0	0	1	3	3	3	0	0	0	1	1
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	3	2	1	0	0	0	0	1	2	2	2	0	0	0	0	0	1
23	1	0	0	0	1	0	T	T	T	T	T	T	T	0	5	4	6	16	12	13	0	1	4	7	4
24	5	0	0	0	0	0	9	11	7	7	12	17	26	29	32	22	32	34	33	32	43	36	34	26	19
25	21	27	24	27	23	20	19	15	5	1	1	2	3	0	0	1	0	0	0	0	0	0	0	0	8
26	0	0	0	0	0	0	0	1	1	0	1	0	0	2	13	15	16	16	14	16	18	23	16	17	7
27	39	19	8	9	12	12	21	21	22	34	50	26	9	24	5	12	17	13	18	20	32	34	38	8	21
28	29	37	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	3	0	0	3
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
30	0	0	0	0	0	0	0	6	9	4	0	0	0	0	0	2	3	9	5	6	4	2	2	2	2

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
8	6	9	6	22	28	34	37	0	-	50	0	-	23	3	99	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: APRIL

STATION : POK FU LAM
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	5	5	7	8	7	15	17	38	62	25	14	12	9	10	17	11	11	9	8	8	6	6	5	13
2	4	7	7	7	6	7	12	16	57	52	47	35	11	9	17	17	14	11	13	10	6	5	5	2	16
3	0	0	0	0	0	0	1	1	2	0	2	2	2	1	6	3	3	0	6	0	0	1	4	3	1
4	4	3	1	2	2	2	2	2	14	46	9	7	7	3	4	2	4	3	2	6	4	3	4	3	6
5	3	2	2	1	1	1	0	4	12	2	1	3	2	3	3	3	1	1	1	1	0	0	1	0	2
6	0	0	1	0	4	5	2	4	34	21	16	14	9	10	3	1	1	1	0	0	1	0	0	0	5
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	0
8	2	3	3	2	3	3	3	3	4	4	3	3	2	7	10	3	4	4	4	2	3	2	5	2	4
9	1	1	1	0	1	0	0	2	11	12	12	11	2	0	0	0	0	1	0	0	0	0	0	1	2
10	2	1	2	0	1	0	1	1	0	3	0	0	4	1	1	1	1	1	1	0	0	0	0	0	1
11	0	0	8	2	2	0	0	0	0	0	0	1	4	13	13	7	10	8	10	10	2	1	1	1	4
12	1	1	1	1	1	0	0	1	1	3	1	4	8	8	2	61	24	18	10	6	4	1	1	0	7
13	0	0	1	0	0	0	0	0	0	0	0	0	2	6	2	5	3	5	4	6	4	1	1	1	2
14	1	2	1	1	0	1	1	2	4	6	2	2	4	5	5	5	23	3	6	7	7	1	1	6	4
15	15	18	15	8	12	9	8	2	7	5	1	1	0	0	1	0	3	0	0	1	0	0	0	4	5
16	2	2	1	2	1	1	2	2	2	2	2	1	2	1	1	1	6	3	1	2	0	2	2	1	2
17	1	1	1	2	1	1	1	1	2	3	2	3	3	14	4	8	8	15	16	3	2	3	3	1	4
18	2	0	2	1	1	2	1	0	1	2	2	0	0	2	1	1	1	1	2	1	1	1	1	1	1
19	0	1	1	2	0	1	4	3	6	4	2	1	1	2	3	2	4	3	9	4	10	4	5	1	3
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	1	0	1	1	0	0	0	1	0	4	1	0	0	3	1	1	0	0	0	0	1	1
22	2	1	2	2	1	2	1	2	3	1	2	1	5	2	2	2	2	3	3	1	2	1	0	3	2
23	2	1	3	2	1	3	1	3	3	5	1	18	18	13	19	8	12	6	6	9	2	12	7	52	9
24	15	3	1	1	1	1	4	15	12	13	19	7	3	9	10	15	22	11	15	10	14	9	7	8	9
25	4	2	20	7	3	3	6	3	2	2	4	2	1	1	1	0	1	1	0	1	1	0	3	3	3
26	2	1	1	2	1	2	2	2	3	2	1	2	4	3	1	1	3	3	3	15	19	6	6	19	4
27	23	19	16	11	8	13	20	22	24	30	27	40	13	43	15	13	15	15	15	21	16	7	24	16	19
28	24	15	3	2	2	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	1	2	0	3	2
29	3	1	2	2	1	3	3	1	5	2	3	5	3	1	5	5	2	4	3	1	2	3	1	2	3
30	2	2	2	1	7	5	2	8	14	2	2	2	3	4	3	7	3	3	3	1	2	3	1	1	3

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
3	2	5	2	13	17	25	42	0	-	62	0	-	19	3	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : POK FU LAM
POLLUTANT : NITROGEN DIOXIDE

MONTH: APRIL

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	11	11	13	18	20	17	54	44	55	62	32	21	17	14	14	18	19	27	37	17	19	18	40	39	27
2	28	31	88	31	13	14	22	26	62	57	49	44	11	10	15	14	13	17	25	25	20	20	19	9	28
3	8	7	6	5	6	6	9	13	29	15	9	8	10	7	15	8	10	10	29	16	8	10	26	10	12
4	9	9	7	6	5	5	17	15	46	50	16	13	9	7	8	8	14	16	25	23	14	11	9	12	15
5	10	6	8	5	4	4	10	32	36	10	11	10	8	9	11	12	13	12	13	10	9	4	5	8	11
6	10	12	44	40	47	57	46	45	54	50	48	59	61	84	67	52	45	35	40	33	29	27	27	21	43
7	17	12	7	5	4	8	12	21	26	30	27	26	24	23	21	23	26	35	36	37	35	23	19	21	22
8	23	M	19	17	14	14	24	34	39	37	13	14	10	14	15	11	12	16	17	19	25	53	38	14	21
9	11	13	13	13	10	9	16	45	57	57	57	46	25	16	11	12	15	12	14	12	9	11	9	8	21
10	6	7	6	4	4	5	9	18	24	26	13	9	11	6	8	14	13	16	18	12	7	6	7	8	11
11	6	8	72	16	13	4	6	16	39	25	12	8	10	13	26	22	30	41	49	49	19	15	11	10	22
12	7	10	8	6	7	6	10	18	20	19	13	15	16	14	7	24	19	26	42	29	24	13	9	10	16
13	7	10	14	7	6	6	13	16	16	15	11	11	11	15	12	16	17	25	30	27	17	15	13	15	14
14	11	14	13	11	8	11	22	17	22	17	14	12	11	11	8	11	24	11	25	38	32	19	21	27	17
15	61	55	52	51	53	52	43	32	30	33	31	28	31	25	26	34	47	46	47	43	49	54	45	57	43
16	40	47	34	42	16	35	37	46	52	52	57	47	55	57	61	65	73	76	63	43	36	67	78	78	52
17	72	69	59	58	35	27	30	48	63	68	66	66	46	48	26	47	48	57	79	34	31	20	23	25	48
18	21	17	12	11	11	11	13	23	26	32	31	21	24	28	36	29	34	29	27	21	30	26	15	18	23
19	19	23	22	16	11	10	28	38	43	38	23	27	18	20	23	26	42	46	60	42	53	30	26	20	29
20	15	10	7	7	9	9	13	15	19	24	15	11	11	10	10	9	14	14	19	11	9	8	6	5	12
21	6	9	5	5	4	4	5	6	8	9	6	6	5	5	6	8	8	8	7	7	5	5	6	6	6
22	5	5	4	6	3	4	6	9	13	10	10	10	8	7	9	9	10	11	10	6	6	7	7	10	8
23	10	9	7	4	5	7	8	17	17	13	8	19	14	8	21	13	20	14	25	23	11	18	19	46	15
24	27	10	5	3	4	5	15	36	38	40	41	54	66	69	70	54	65	67	77	81	89	81	79	60	47
25	42	41	67	48	37	28	46	44	46	32	30	28	27	24	25	30	29	29	24	24	18	13	14	15	32
26	12	9	8	8	8	9	13	19	19	27	26	20	25	33	41	46	43	44	49	81	84	45	56	79	34
27	73	82	57	31	33	47	54	61	61	88	93	72	44	66	33	26	35	50	58	64	66	53	102	83	60
28	94	66	12	7	8	6	8	12	17	22	17	13	17	14	17	18	14	12	10	10	18	20	9	15	19
29	12	5	4	4	3	4	7	8	25	17	11	14	8	6	6	7	10	12	11	9	8	7	9	7	9
30	5	5	13	4	25	11	9	38	51	21	14	10	11	4	8	10	12	15	11	10	11	10	9	7	14

MONTHLY STATISTICS:

GEOM		ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
18	17	24	17	54	66	79	84	3	-	102	6	-	60	2	100	0

NOTES:

1. FLAGS FOR INVALID DATA :
 - D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: APRIL

STATION : AP LEI CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	4	5	4	5	4	3	4	5	6	4	4	4	4	3	5	9	8	6	9	11	13	12	43	14	8
2	18	20	19	23	17	13	16	19	28	22	46	37	15	15	26	22	30	54	22	29	24	25	65	43	27
3	19	23	11	19	29	18	23	17	7	10	12	48	19	11	25	26	36	15	19	9	6	12	29	11	19
4	11	10	7	7	8	7	6	8	10	13	14	12	5	4	6	5	5	4	6	12	9	8	8	9	8
5	9	9	11	8	7	6	5	8	11	8	8	9	6	8	7	6	5	5	4	6	7	7	40	8	9
6	7	7	7	6	7	8	7	30	65	54	28	35	18	22	8	8	8	6	5	4	3	4	4	3	15
7	2	2	1	1	1	2	3	2	2	2	2	3	2	3	3	3	4	4	3	3	4	5	3	5	3
8	5	4	5	5	5	5	5	5	7	5	5	5	4	5	6	5	5	4	5	6	8	10	12	7	6
9	6	6	5	5	4	5	3	5	5	4	3	3	1	2	2	3	4	5	5	4	5	6	4	5	4
10	5	6	6	4	5	4	4	6	6	4	3	4	3	3	4	4	2	3	3	2	3	3	53	4	6
11	5	5	4	4	4	4	4	5	4	3	5	9	7	6	16	17	28	21	13	9	10	5	4	M	8
12	5	6	9	16	13	6	7	9	8	9	14	20	16	10	11	16	6	20	17	16	7	8	8	4	11
13	3	6	6	5	4	7	9	6	6	6	6	6	11	29	24	19	15	14	13	16	13	6	69	9	13
14	26	20	25	19	36	29	33	14	19	34	13	10	20	25	25	16	9	7	6	5	7	5	10	M	18
15	11	23	21	11	16	12	12	6	11	9	5	2	4	4	3	4	20	26	4	3	4	3	2	3	9
16	5	3	4	4	4	4	5	4	4	4	4	4	4	4	4	4	14	7	5	8	5	7	36	M	6
17	13	16	11	8	5	4	3	3	4	3	3	4	4	5	4	8	4	4	3	4	6	7	41	5	7
18	6	6	7	7	7	6	5	5	4	6	5	5	6	5	5	5	4	5	5	9	7	8	7	M	6
19	4	4	6	6	5	4	4	5	5	6	4	5	4	4	4	5	3	3	3	4	4	5	M	7	5
20	6	7	5	6	8	10	10	8	5	8	6	5	5	5	4	3	4	4	3	3	4	5	29	4	7
21	6	5	4	5	5	5	5	5	5	5	5	5	5	4	4	4	5	4	4	4	4	4	15	5	5
22	6	7	6	7	5	6	7	6	9	7	5	5	16	11	7	6	7	7	6	5	6	6	6	M	7
23	4	4	4	6	5	5	3	2	4	3	1	10	M	M	M	22	24	15	15	10	8	17	80	33	13
24	27	37	20	23	26	38	21	24	17	16	29	15	20	16	19	35	41	29	40	39	43	23	43	M	28
25	55	41	45	28	8	7	5	5	3	3	3	3	1	3	3	2	2	2	1	3	3	3	3	M	10
26	3	4	3	3	4	4	4	4	5	3	5	4	3	3	2	2	2	2	2	2	3	9	3	4	3
27	3	4	6	5	10	13	15	6	32	25	15	5	4	3	2	3	3	1	5	6	5	2	4	18	8
28	15	11	10	8	9	7	8	6	6	6	5	5	6	5	4	5	4	3	4	5	11	9	7	2	7
29	1	1	3	3	2	3	3	2	3	3	2	3	2	3	4	4	2	3	2	1	2	3	4	5	3
30	5	4	4	3	3	4	5	4	5	5	4	5	6	6	5	5	10	4	4	4	9	5	5	5	5

MONTHLY STATISTICS:

GEOM	ARITH -----PERCENTILES-----								-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
7	5	9	5	22	29	43	53	1	-	80	3	-	28	2	98	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : AP LEI CHAU
POLLUTANT : NITROGEN DIOXIDE

MONTH: APRIL

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	1	2	0	1	1	0	7	9	3	1	0	0	0	0	0	7	2	3	8	9	4	0	14	6	3	
2	7	15	18	25	13	5	6	15	24	19	31	20	7	3	13	9	19	44	28	26	26	40	48	42	21	
3	16	23	9	14	13	7	9	4	1	5	4	27	12	6	25	21	25	8	21	7	2	11	10	15	12	
4	16	18	10	4	5	5	9	8	14	6	11	11	1	0	0	0	0	3	5	10	4	0	0	3	6	
5	3	0	3	1	0	1	4	14	8	3	2	2	0	2	1	1	0	0	9	1	0	0	3	3	3	
6	2	9	7	2	13	35	28	41	58	60	49	39	61	85	47	49	51	41	38	29	17	16	12	15	34	
7	9	5	1	0	0	0	1	4	8	9	10	14	13	19	20	14	15	24	31	25	22	20	20	24	13	
8	21	17	15	13	16	20	29	30	16	8	6	5	4	5	5	4	6	7	8	8	14	16	32	25	14	
9	20	16	15	8	5	12	18	17	15	9	7	3	2	2	2	3	3	4	8	4	3	3	2	3	8	
10	3	4	4	1	2	7	11	13	4	3	1	2	3	2	6	2	1	3	4	1	6	11	9	2	4	
11	2	1	0	0	1	1	5	17	4	2	11	8	5	4	14	8	24	19	22	14	10	3	1	1	7	
12	0	1	1	15	6	0	3	6	0	0	2	7	10	9	2	7	1	15	23	18	2	1	1	0	5	
13	1	6	3	2	2	5	8	1	1	0	0	1	13	11	10	4	9	15	21	8	1	7	5	6		
14	21	22	17	15	23	31	32	10	11	13	3	5	12	12	9	12	1	7	7	1	9	6	11	M	13	
15	28	52	46	43	45	43	36	25	24	27	22	17	24	16	12	16	49	52	34	41	44	43	25	25	33	
16	43	32	17	5	1	2	24	27	37	39	28	20	20	18	22	35	79	73	67	69	66	64	66	M	37	
17	68	67	47	20	8	16	14	21	30	34	34	27	12	14	19	17	10	14	9	5	3	3	2	3	21	
18	1	0	0	0	1	0	1	5	5	6	6	4	3	3	4	3	2	3	2	5	2	4	7	M	3	
19	6	2	1	0	0	1	4	4	3	0	0	0	0	0	0	0	2	1	3	1	1	0	M	0	1	
20	0	0	0	0	0	0	1	3	3	4	1	0	1	0	0	0	2	1	0	0	0	0	0	0	1	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	3	0	0	1	23	13	1	1	7	3	0	0	0	0	0	0	M	2
23	1	0	1	4	4	1	0	0	0	0	1	6	M	M	M	12	15	9	11	4	3	9	17	23	6	
24	16	25	5	4	7	18	9	14	6	17	26	43	71	50	46	42	51	55	68	76	86	79	76	M	39	
25	76	73	67	58	28	23	19	18	7	6	7	7	8	5	2	1	0	1	1	1	0	0	0	M	18	
26	0	0	0	0	0	0	0	3	5	5	7	6	4	8	10	13	24	25	21	15	17	39	17	13	10	
27	13	10	10	3	15	23	34	19	98	74	43	13	10	1	2	8	4	5	24	38	44	7	10	10	22	
28	8	2	0	0	0	0	0	0	1	2	1	0	1	1	2	1	2	0	0	0	11	3	2	0	2	
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	11	1	0	0	0	0	1	
30	0	0	0	0	0	0	1	0	0	1	1	1	1	1	0	0	5	1	0	0	5	1	0	3	1	

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
8	5	11	5	31	47	68	76	0	-	98	0	-	39	3	99	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: APRIL

STATION : CHEUNG CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	4	5	4	4	3	3	2	4	7	8	7	4	4	4	10	12	17	13	12	9	10	10	8	6	7
2	6	6	8	8	8	9	10	15	19	19	11	23	16	20	23	22	18	5	5	4	4	3	4	3	11
3	2	2	2	2	2	2	3	8	23	17	6	6	M	15	18	14	4	2	4	2	1	5	8	14	7
4	13	11	12	13	10	7	7	10	11	7	12	6	8	10	7	10	8	10	7	9	11	9	9	8	9
5	4	5	5	6	7	8	8	9	8	18	26	17	9	5	18	6	5	9	6	5	5	7	5	5	9
6	6	4	5	5	5	4	4	7	8	10	7	12	18	12	3	3	3	3	2	2	1	1	1	1	5
7	1	1	0	0	1	1	2	2	3	4	3	3	3	3	3	3	4	4	3	3	3	4	4	5	3
8	8	6	4	4	3	3	4	6	5	8	10	9	4	5	5	6	6	9	7	10	8	5	5	4	6
9	4	3	3	3	4	4	4	5	7	10	19	8	4	4	4	6	6	6	6	4	4	5	4	3	5
10	4	3	5	6	4	3	3	5	7	6	6	3	4	6	4	6	10	9	26	13	5	6	7	8	7
11	7	6	6	5	4	3	4	4	5	12	16	8	7	7	14	19	24	13	7	8	6	5	5	10	9
12	8	9	9	7	6	8	12	21	24	34	22	12	7	7	5	3	7	8	11	6	8	6	8	6	11
13	7	5	6	9	11	19	15	11	15	23	27	31	29	21	8	8	8	4	3	2	3	4	2	4	11
14	5	5	4	4	4	5	5	5	8	7	9	10	9	9	3	3	3	2	2	4	6	10	12	9	6
15	10	5	6	4	5	4	4	5	4	2	1	1	2	4	4	7	2	1	3	0	1	2	2	4	3
16	0	0	0	0	0	0	0	0	0	1	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	1	0	2	4	5	3	6	11	8	3	4	5	5	1	3	5	3	4	3
18	5	3	3	3	4	4	3	3	5	5	7	13	11	4	4	2	2	3	4	6	4	2	4	4	5
19	5	3	2	3	3	2	4	5	8	7	5	3	3	3	4	5	4	3	3	2	2	5	3	4	4
20	5	4	4	4	6	5	6	6	5	5	5	6	3	2	3	3	4	4	1	1	2	2	3	4	4
21	4	5	6	3	3	2	2	3	3	2	2	2	2	4	2	3	4	2	2	4	3	3	4	4	3
22	3	4	4	3	3	2	4	5	5	10	6	6	2	2	3	5	4	6	3	3	3	3	5	6	4
23	7	10	10	11	9	14	8	8	16	20	12	7	8	10	6	4	5	2	0	0	0	1	2	2	7
24	1	1	1	1	1	2	2	5	16	13	10	0	0	0	M	2	3	2	3	1	1	1	1	3	3
25	1	1	1	1	1	1	1	5	7	2	3	6	3	3	4	5	2	1	1	0	2	2	1	2	2
26	1	1	2	1	1	2	2	1	2	2	3	3	6	5	2	1	1	2	2	4	2	1	1	3	2
27	4	3	4	3	5	4	5	6	9	6	20	14	12	6	9	9	11	8	3	4	4	2	2	16	7
28	12	11	8	5	4	2	3	4	3	3	7	4	15	4	2	3	4	2	1	1	2	6	3	4	5
29	2	2	1	3	2	1	4	7	4	4	2	3	2	2	3	8	7	6	4	5	2	5	4	4	4
30	2	2	4	3	2	4	7	6	5	6	4	4	4	4	3	2	8	4	7	4	7	6	6	10	5

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
4	4	6	4	11	16	21	24	0	-	34	0	-	11	2	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHEUNG CHAU
POLLUTANT : NITROGEN DIOXIDE

MONTH: APRIL

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	8	14	50	45	38	30	22	49	47	15	10	7	7	9	12	14	18	22	27	34	31	32	59	17	26
2	18	61	91	85	51	55	63	57	60	39	5	19	11	18	9	9	16	6	12	15	14	43	116	41	38
3	71	36	40	84	49	49	72	77	68	22	1	2	M	7	4	2	0	2	15	7	18	29	46	70	34
4	69	M	53	57	53	32	48	57	41	6	3	1	1	4	3	4	3	11	14	42	43	42	34	21	28
5	15	19	19	35	57	65	60	45	11	19	21	11	3	0	9	1	1	9	14	21	20	22	17	39	22
6	75	48	55	57	57	50	35	49	37	41	25	28	66	69	45	44	42	44	46	45	42	38	31	26	46
7	20	16	16	14	14	24	24	21	42	36	30	29	26	26	30	31	31	36	36	35	32	30	37	42	28
8	47	35	23	21	16	21	28	38	46	65	44	30	11	12	13	13	15	24	27	32	41	55	23	14	29
9	26	44	39	49	67	56	69	68	71	53	44	21	1	2	1	3	4	5	12	13	8	12	30	21	30
10	20	26	34	33	23	23	24	43	43	10	9	5	6	13	9	17	25	16	60	46	18	18	23	31	24
11	41	31	40	21	16	36	55	32	22	11	11	9	7	6	18	29	27	27	20	46	14	22	27	41	25
12	31	39	33	44	35	38	57	54	44	41	22	15	7	7	4	3	9	13	41	20	34	31	34	27	28
13	34	26	33	52	51	53	48	27	19	24	26	28	21	17	7	9	11	22	9	8	18	14	14	23	25
14	26	38	25	32	28	35	39	25	21	13	13	15	9	12	4	5	8	10	14	25	40	60	58	49	25
15	77	64	58	56	56	56	55	48	43	44	48	54	46	55	44	59	47	46	48	50	49	47	43	55	52
16	47	38	33	27	29	28	34	40	37	60	55	51	57	57	58	61	72	73	71	70	56	50	45	38	49
17	37	38	32	33	21	23	32	35	44	64	64	55	60	68	48	12	15	23	15	8	12	14	10	17	33
18	16	M	12	10	14	17	15	16	17	22	23	27	22	8	10	7	7	9	14	20	14	12	16	20	15
19	23	13	8	13	13	25	18	16	21	20	8	4	3	3	3	5	3	4	6	5	5	10	7	8	10
20	16	12	9	12	17	13	15	16	19	16	11	11	4	3	6	7	13	14	8	7	13	8	10	7	11
21	8	17	17	5	7	2	2	3	2	1	0	0	0	0	0	0	2	1	3	15	5	6	10	6	5
22	5	9	7	5	5	2	9	9	8	13	3	3	0	0	2	2	2	6	7	8	6	8	22	27	7
23	24	44	50	52	48	52	35	27	17	20	8	4	3	9	6	2	7	6	2	4	4	6	8	12	19
24	26	31	10	3	28	43	20	38	41	46	52	46	33	41	M	26	26	30	86	77	60	64	53	51	40
25	38	28	24	18	17	23	43	52	63	12	15	22	52	41	18	24	9	8	7	3	6	8	2	7	23
26	3	3	4	3	4	7	10	3	9	8	7	11	20	21	9	8	8	18	15	20	10	11	73	12	12
27	38	45	57	18	51	63	54	65	75	72	86	92	34	8	10	11	13	13	14	22	10	19	10	37	38
28	13	42	9	5	3	1	3	23	15	16	13	15	28	15	1	2	2	0	0	0	3	12	4	5	10
29	1	0	0	1	0	0	1	12	0	0	0	0	0	0	0	1	4	4	2	9	3	8	5	4	2
30	0	0	5	1	0	18	22	28	12	3	1	0	0	0	0	0	3	3	12	7	23	24	20	36	9

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
17	19	25	19	55	64	72	77	0	-	116	2	-	52	3	99	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : VICTORIA PEAK
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	10	23	1	1	1	1	2	2	53	121	171	81	7	34	37	9	24	3	3	1	25
2	1	20	6	9	2	1	1	2	1	1	2	2	5	2	3	15	3	5	4	2	4	3	3	2	4
3	2	1	4	4	5	4	4	5	7	6	4	16	9	1	2	0	0	0	0	0	0	0	0	0	3
4	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	1	1	0	0	1	1	0	0	0
5	0	0	0	1	0	1	0	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	1	1	0	3	5	2	1	2	3	10	2	3	1	1	1	1	1	1	2
7	1	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	1	4	4	7	5	8	9	1	2
8	0	0	18	8	11	4	0	0	1	2	3	1	11	19	5	12	10	7	2	3	3	3	1	2	5
9	2	1	0	0	1	1	2	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
10	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0	0	0	1	0	1	0	1	1
11	1	0	0	0	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
12	0	0	0	0	0	0	0	0	0	3	1	1	1	1	2	4	2	6	9	9	2	3	1	0	2
13	1	3	2	1	0	0	0	1	1	0	0	1	3	3	11	10	7	4	4	3	3	2	1	2	3
14	1	1	1	2	0	1	0	0	2	1	1	1	4	5	5	M	M	2	2	2	3	2	1	2	2
15	3	1	1	1	2	1	1	2	7	8	3	2	3	2	1	2	7	3	2	3	5	2	3	4	3
16	3	2	5	6	5	3	3	2	5	4	4	1	2	3	2	1	3	5	3	2	2	2	1	3	3
17	1	0	0	0	1	2	2	2	3	3	3	4	7	4	4	1	1	4	3	1	2	2	1	1	2
18	1	1	2	2	1	2	1	3	3	1	5	12	8	5	5	16	6	5	2	3	1	1	1	1	4
19	1	2	2	1	0	1	0	0	0	0	1	2	2	1	4	4	4	6	6	6	6	4	2	3	2
20	2	2	1	1	2	2	1	2	3	3	4	5	6	5	16	10	13	7	5	5	2	3	1	2	4
21	1	1	1	2	2	2	3	4	3	6	9	8	13	9	5	4	3	8	4	6	6	5	3	3	5
22	3	4	4	2	4	2	3	5	2	13	6	6	4	7	12	8	5	12	5	4	2	5	4	2	5
23	1	4	3	4	2	2	2	5	6	6	11	10	11	10	11	14	9	10	7	5	6	4	3	2	6
24	2	3	3	1	1	1	3	5	4	3	3	5	3	9	7	5	5	3	3	1	3	5	4	5	4
25	5	2	1	3	1	1	5	4	4	2	4	5	4	3	3	2	3	2	3	2	1	3	2	3	3
26	3	2	1	4	3	2	2	2	3	1	2	2	1	1	2	5	3	7	3	2	2	3	1	3	3
27	1	2	1	5	1	1	1	1	6	2	1	1	0	1	1	2	2	2	4	2	8	8	7	7	3
28	10	25	14	13	12	18	21	11	5	7	13	14	10	11	8	6	8	6	4	2	4	3	2	3	10
29	2	1	1	1	1	0	0	0	0	3	8	4	6	9	6	5	3	3	5	3	1	1	1	1	3
30	1	0	0	1	0	1	3	3	5	12	7	M	6	8	10	6	2	3	7	5	4	3	1	3	4
31	3	2	2	2	3	3	4	2	3	2	5	5	5	5	3	5	8	8	3	4	4	4	3	3	4

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
3	2	4	2	8	11	16	24	0	-	171	0	-	25	2	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : VICTORIA PEAK
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	1	5	0	0	2	3	5	2	11	17	34	20	5	12	17	16	19	11	11	4	8
2	0	M	0	3	0	0	0	1	0	0	0	1	3	2	0	20	2	8	8	5	6	4	3	3	3
3	3	0	13	20	20	13	23	42	55	70	57	59	25	2	5	0	2	0	0	0	0	0	0	12	18
4	9	7	7	3	1	1	1	2	3	3	2	4	1	1	3	2	4	3	1	1	0	0	0	2	3
5	0	1	1	1	1	1	1	4	5	4	7	5	6	10	11	10	7	1	0	1	0	0	0	0	3
6	0	0	0	0	0	0	0	5	1	7	7	0	1	3	1	24	0	5	3	4	1	2	0	0	3
7	0	0	0	0	0	0	0	0	1	3	1	1	1	1	3	1	0	4	3	9	21	21	22	5	4
8	2	0	42	20	25	24	6	19	24	58	55	46	47	54	30	61	66	59	27	68	83	65	55	41	41
9	24	4	0	4	2	1	3	6	6	11	7	3	3	4	5	3	2	1	2	0	0	0	0	13	4
10	14	13	9	6	5	3	3	4	6	5	5	4	2	3	4	2	7	4	3	1	1	1	1	1	4
11	0	0	0	0	0	0	0	0	2	6	4	2	1	1	3	8	7	5	1	1	0	0	0	2	2
12	0	1	0	0	0	0	1	2	10	23	11	7	6	4	6	10	12	17	25	30	18	36	11	3	10
13	3	34	23	18	4	2	3	3	3	0	1	1	3	5	20	26	22	14	8	13	15	19	12	21	11
14	6	0	0	2	0	0	0	0	1	0	0	4	5	12	18	M	M	10	8	10	14	11	5	3	5
15	7	0	0	0	0	0	1	4	13	11	6	3	5	4	3	3	9	7	6	10	13	10	9	10	6
16	12	M	7	13	6	2	2	5	7	5	6	2	1	2	2	5	8	9	7	10	9	6	1	3	6
17	3	0	0	0	0	1	1	2	3	9	10	10	19	15	15	3	3	9	5	3	10	4	7	0	6
18	2	0	3	2	0	2	1	10	3	1	5	17	17	10	12	31	19	8	5	9	8	5	1	2	7
19	3	7	5	0	0	0	0	0	0	0	2	1	4	0	4	11	16	23	31	17	21	28	9	13	8
20	11	5	0	0	1	2	0	2	4	3	11	15	16	12	25	29	31	17	20	25	19	30	13	7	12
21	4	1	0	0	3	5	6	8	4	13	17	14	20	15	5	2	6	12	7	42	16	19	10	12	10
22	11	7	6	2	8	7	3	8	3	15	8	11	5	6	11	10	8	20	11	19	14	13	9	2	9
23	1	2	2	5	1	0	3	3	10	15	30	27	29	25	27	40	31	28	12	18	20	14	6	1	15
24	0	3	1	0	0	0	2	8	13	11	8	11	2	8	7	8	8	4	4	7	7	8	4	8	6
25	4	1	0	1	0	0	11	7	6	5	10	18	2	8	5	3	8	8	7	9	3	10	3	5	6
26	4	0	0	8	8	2	1	2	8	1	1	1	0	2	1	4	6	12	9	17	6	11	3	7	5
27	0	0	0	5	1	0	0	1	13	3	3	1	0	0	2	2	4	8	17	18	40	35	31	27	9
28	41	67	49	59	59	62	59	49	32	46	60	54	30	24	18	16	25	23	14	16	16	13	9	6	35
29	2	0	0	0	0	0	0	0	2	9	17	8	11	15	6	4	2	3	6	5	2	2	2	0	4
30	1	M	0	0	0	0	1	2	3	13	7	M	10	16	23	12	7	6	15	20	13	9	2	6	8
31	5	2	1	1	3	3	3	1	3	1	3	5	7	4	2	11	17	18	12	17	13	15	10	8	7

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
6	4	9	4	23	32	57	61	0	-	83	2	-	41	3	99	0

NOTES:

1. FLAGS FOR INVALID DATA :
 - D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH: MAY

YEAR : 2018

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	3	3	1	1	1	2	2	3	4	4	5	6	1	6	12	11	21	4	8	11	7	10	15	6
2	9	6	7	7	10	6	10	8	8	25	24	12	M	22	17	10	13	14	7	8	8	5	10	11	11
3	10	6	7	4	11	8	9	9	43	40	41	17	3	4	3	1	1	0	0	0	1	0	0	0	9
4	0	0	0	0	0	0	0	0	1	1	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1
5	1	1	1	1	1	2	1	1	1	1	2	2	1	1	2	1	1	1	1	0	1	0	1	2	1
6	2	2	2	2	2	3	4	3	5	11	8	9	4	4	8	8	9	12	10	5	3	5	6	5	6
7	7	7	3	6	7	4	3	6	8	8	7	7	9	4	4	8	5	5	5	5	7	7	9	4	6
8	1	1	1	1	1	1	1	1	1	1	1	1	1	28	12	14	5	2	4	8	5	3	4	4	4
9	3	2	2	1	3	4	7	6	4	3	1	0	0	0	0	0	0	0	0	0	1	0	0	0	2
10	0	1	1	0	0	0	1	1	0	1	1	0	1	1	1	0	0	0	0	0	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	2	2	3	2	1	2	1	2	2	2	1	1	1	2	1	1
12	0	0	0	1	0	0	0	0	1	1	4	2	3	3	5	5	4	4	12	4	3	3	5	6	3
13	6	5	5	6	5	3	4	10	19	15	17	14	11	8	7	12	14	10	11	5	4	6	7	5	9
14	7	4	4	6	6	2	3	4	8	9	4	5	7	6	9	6	6	3	3	4	2	4	3	3	5
15	3	3	1	2	2	2	5	3	11	5	5	5	6	4	5	4	4	4	2	3	3	1	2	2	4
16	1	2	2	3	2	2	2	5	7	7	7	6	2	2	5	2	2	2	2	1	1	3	1	1	3
17	2	0	0	1	1	1	2	4	3	3	2	4	4	2	3	1	2	2	1	2	1	2	2	2	2
18	2	2	2	1	3	4	4	7	9	6	4	4	6	7	6	4	4	5	3	3	3	3	2	3	4
19	2	3	4	3	3	4	7	7	12	8	6	12	5	7	9	8	5	3	5	3	4	4	3	3	5
20	5	6	4	3	7	5	8	15	19	12	8	5	7	9	6	10	12	10	7	2	2	3	4	4	7
21	5	5	5	7	5	6	7	7	6	7	10	11	9	7	5	3	5	5	3	4	3	6	5	2	6
22	2	3	5	4	2	1	1	3	2	5	11	15	19	25	14	13	8	9	2	6	3	6	3	2	7
23	2	3	4	4	3	2	2	2	7	13	27	10	13	13	13	11	12	6	5	4	3	3	3	1	7
24	3	4	3	2	3	7	9	10	9	6	6	5	3	5	3	4	M	2	1	1	1	1	1	2	4
25	1	0	1	1	1	1	1	2	2	4	1	3	4	1	3	2	2	3	2	1	2	2	2	3	2
26	3	1	2	2	1	2	2	3	6	7	6	4	4	3	3	4	5	3	6	2	3	2	2	2	3
27	1	2	2	2	4	4	5	4	5	4	4	7	2	2	6	4	4	2	3	3	10	10	9	6	4
28	11	10	12	14	10	10	14	13	10	15	15	26	18	13	9	9	9	7	7	10	11	7	5	11	12
29	15	8	5	5	3	2	3	2	6	14	14	10	8	7	4	8	11	4	8	5	4	6	9	6	7
30	5	8	5	6	6	6	7	10	15	29	29	15	11	8	5	11	7	6	8	6	7	10	5	8	10
31	6	6	5	3	3	4	11	12	15	12	7	7	10	5	2	3	11	8	5	1	3	3	6	11	7

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
4	4	5	4	11	14	19	26	0	-	43	1	-	12	2	100	0

NOTES:

1. FLAGS FOR INVALID DATA :
 - D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
 AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION
 POLLUTANT : NITROGEN DIOXIDE

MONTH: MAY

YEAR : 2018

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	9	11	8	5	3	3	6	8	7	11	8	10	10	2	5	12	15	22	6	25	37	20	22	31	12
2	19	M	17	15	23	18	19	11	9	16	21	14	M	19	13	10	13	23	19	16	17	12	19	22	17
3	22	16	17	16	32	38	35	30	56	63	69	35	8	7	6	6	6	5	7	6	6	4	3	4	21
4	3	3	3	3	3	4	6	7	7	7	9	7	8	7	7	7	9	10	6	6	7	6	6	4	6
5	3	3	4	3	4	5	4	5	6	4	5	5	3	4	4	2	2	2	3	3	5	3	4	5	4
6	5	7	6	8	7	10	12	15	8	13	9	9	4	3	8	8	9	14	20	17	9	13	8	11	10
7	19	22	6	9	10	5	4	11	13	8	5	6	7	1	4	9	5	11	11	10	15	15	20	9	10
8	7	5	5	10	8	8	6	6	10	16	9	9	9	40	35	39	25	20	16	24	37	47	42	12	19
9	7	9	4	0	3	5	9	11	6	6	4	3	3	3	2	2	0	2	1	0	2	1	1	2	4
10	1	1	1	0	0	1	1	4	2	2	2	3	2	2	3	1	1	1	2	1	2	2	1	2	2
11	2	1	1	1	2	1	2	3	2	3	3	4	3	1	2	3	3	3	2	2	3	2	8	5	3
12	3	2	1	2	1	1	0	6	6	5	7	4	4	3	5	5	7	10	29	21	11	14	14	8	7
13	7	17	13	13	11	5	7	12	19	17	18	15	12	8	7	15	15	21	26	21	10	17	17	12	14
14	18	9	7	15	18	7	9	7	13	12	6	5	8	7	11	8	8	6	7	6	8	17	11	10	10
15	12	13	5	7	7	7	13	7	16	5	4	4	5	4	3	5	5	5	6	10	10	7	11	10	8
16	3	M	6	9	5	5	7	10	9	8	7	6	2	1	4	4	5	8	12	7	4	9	9	6	6
17	8	2	5	7	11	14	14	10	6	4	2	4	4	3	2	2	6	6	10	17	10	11	9	12	7
18	12	16	9	7	17	21	13	10	10	5	4	5	7	6	7	3	4	4	10	14	16	11	8	18	10
19	16	18	23	19	14	19	15	10	12	11	9	16	8	6	10	10	8	8	19	15	22	20	15	17	14
20	17	23	16	7	19	12	17	24	19	11	9	7	8	11	9	11	15	23	20	10	8	11	16	10	14
21	9	13	12	28	14	14	17	10	7	5	8	8	6	7	6	4	6	8	12	12	11	19	18	11	11
22	9	9	14	14	10	8	5	6	2	5	11	11	14	18	11	9	9	13	19	27	16	19	17	11	12
23	10	14	18	14	9	7	7	11	16	18	30	16	19	22	18	22	16	14	16	22	18	12	11	6	15
24	12	25	18	10	9	16	30	25	18	12	7	7	5	14	12	9	M	5	7	5	8	8	8	9	12
25	6	3	4	4	4	3	7	10	7	5	3	3	7	2	4	4	4	7	9	8	12	10	11	10	6
26	11	7	9	18	7	12	8	9	11	10	7	9	8	4	5	6	7	7	15	12	14	13	12	18	10
27	7	8	9	9	18	20	24	11	12	5	4	12	5	4	7	7	7	8	15	22	52	68	67	32	18
28	55	59	66	75	64	50	58	58	53	68	65	75	43	33	22	26	24	23	14	20	20	18	14	29	43
29	63	32	14	13	11	10	10	14	20	31	29	22	22	15	11	14	16	10	19	13	13	12	21	8	18
30	7	M	11	11	16	17	10	17	15	24	26	17	11	3	5	8	5	14	17	12	12	14	9	22	13
31	19	18	12	8	9	9	16	15	13	11	7	7	10	7	7	8	12	12	15	11	8	10	15	23	12

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
9	9	12	9	22	30	55	65	0	-	75	2	-	43	2	99	0

- NOTES: 1. FLAGS FOR INVALID DATA :
 D: DYNAMIC CALIBRATION
 T: TELEMETRY/DATALOGGR FAULT
 M: MAINTENANCE OR ANALYZER FAULT
 P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
2	M	M	M	M	M	M	M	M	M	M	9	1	1	0	2	3	1	4	0	0	0	0	0	7	
3	7	5	5	7	9	13	16	20	23	20	15	24	14	5	6	4	4	4	3	4	3	3	3	5	9
4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	4	4	4	4	4	4	5	4	4	5	4
5	3	4	3	3	3	4	3	3	4	4	4	3	3	4	4	4	3	3	3	3	3	3	3	4	3
6	3	4	4	4	4	4	6	7	4	7	11	7	4	5	7	8	5	8	7	6	5	6	5	9	6
7	7	4	5	5	4	5	5	5	7	6	6	5	6	5	5	5	6	7	5	9	8	10	12	6	6
8	4	3	7	9	9	11	9	5	6	10	9	19	21	12	13	16	12	9	7	6	8	10	15	7	10
9	5	12	5	4	6	9	5	5	5	5	3	3	3	3	3	3	3	3	3	3	3	3	3	5	4
10	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4
11	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4
12	4	4	4	4	4	8	6	10	28	23	5	6	5	10	10	7	7	11	20	10	6	12	8	9	9
13	9	10	6	6	4	5	7	9	8	5	6	6	8	9	12	7	10	9	8	8	9	6	7	6	8
14	6	6	7	7	7	8	7	5	9	6	6	7	12	10	7	6	6	8	7	7	9	7	6	9	7
15	9	7	7	7	6	7	6	10	14	13	7	5	10	6	5	8	8	7	6	6	8	6	7	8	8
16	6	7	13	9	9	7	6	7	9	14	8	6	6	10	7	5	6	8	5	8	8	7	6	12	8
17	7	6	6	6	7	11	8	10	12	7	6	11	11	6	7	6	6	9	7	6	10	8	7	6	8
18	8	8	7	6	7	10	8	10	8	5	8	12	7	9	9	6	6	9	6	10	6	6	7	10	8
19	6	8	8	5	5	5	5	6	7	5	10	12	10	6	12	12	6	6	8	8	15	10	7	9	8
20	8	7	5	8	9	8	7	8	8	13	8	8	15	10	7	11	12	10	6	8	7	10	9	8	9
21	6	6	9	6	6	6	8	8	9	13	11	14	14	11	7	9	8	10	10	12	8	8	8	8	9
22	8	10	11	13	8	8	10	8	8	12	8	13	9	17	18	10	10	12	9	9	9	12	8	8	10
23	7	8	7	7	7	6	7	7	7	8	13	10	7	9	10	14	11	11	6	7	8	6	5	6	8
24	6	10	6	5	9	11	9	9	7	9	7	9	9	9	8	8	7	6	6	5	8	6	7	9	8
25	7	6	7	8	5	6	10	11	8	6	6	7	10	7	6	6	7	7	7	7	6	7	7	9	7
26	7	7	6	6	6	7	7	9	10	8	9	8	6	5	9	13	9	9	7	7	7	7	6	9	8
27	6	6	6	14	6	6	7	6	10	6	6	7	5	5	6	8	7	6	8	8	13	7	7	9	7
28	12	11	20	17	12	16	17	12	10	10	13	18	15	11	8	10	11	8	8	6	7	6	5	14	12
29	8	6	6	6	6	5	5	5	5	10	9	9	8	9	8	8	7	7	11	7	6	6	7	7	7
30	8	6	6	5	5	5	8	7	10	9	10	13	7	7	5	9	5	7	7	7	6	6	4	8	7
31	7	8	6	8	8	8	7	7	9	10	9	9	9	10	7	8	11	9	8	7	7	7	10	9	8

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
7	7	7	7	11	13	17	20	0	-	28	3	-	12	2	95	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH: MAY

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	8	8	18	5	0	1	5	8	10	3
2	4	M	0	3	3	2	2	0	0	0	1	4	8	4	7	10	10	17	14	11	14	11	12	8	6
3	8	3	5	14	19	33	41	41	44	44	45	60	29	3	5	3	2	1	1	0	0	0	0	0	17
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	1	7	0	3	3	0	0	0	1	9	0	2	2	1	1	3	0	3	2
7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	5	0	1
8	0	0	3	6	6	16	19	7	16	22	18	25	21	23	32	33	28	24	11	14	27	29	27	23	18
9	16	24	8	0	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	6	5	14	21	15	0	0	0	2	3	1	2	14	20	12	5	18	6	15	7
13	3	2	0	0	0	0	1	2	0	0	0	0	2	9	7	0	1	1	3	5	3	0	2	1	2
14	0	0	0	0	0	0	1	0	0	0	0	0	8	2	2	2	0	2	0	0	4	3	2	5	1
15	4	0	0	0	0	0	1	4	6	4	1	0	3	0	0	2	0	1	4	2	3	0	0	2	2
16	0	M	9	2	0	0	0	3	3	6	2	0	0	1	0	0	0	1	0	2	8	4	0	12	2
17	6	0	1	1	3	9	5	3	6	1	1	7	8	0	1	2	2	5	5	4	10	8	7	0	4
18	2	2	0	0	0	3	4	6	1	0	0	3	0	5	7	0	0	4	1	5	0	0	0	4	2
19	1	2	4	0	0	0	0	0	0	0	2	5	3	0	5	9	0	1	2	3	11	8	4	2	3
20	1	1	0	0	2	1	1	1	0	1	1	1	7	3	1	4	7	4	2	0	0	5	3	3	2
21	0	0	2	0	0	0	8	3	2	4	1	5	3	2	0	1	2	3	4	3	4	5	3	10	3
22	7	5	5	8	3	2	6	1	0	2	1	6	1	7	6	1	5	10	9	8	9	12	8	5	5
23	2	2	2	2	3	2	3	9	8	12	19	15	15	13	15	21	11	11	8	8	13	5	2	1	8
24	0	6	0	0	5	9	9	10	1	5	0	3	2	2	1	1	0	0	4	5	8	1	1	7	3
25	0	0	0	2	0	0	8	3	0	0	0	0	3	1	0	0	1	0	0	2	0	1	0	4	1
26	1	1	0	0	1	2	2	4	6	1	1	1	1	0	1	5	3	3	2	3	2	1	0	8	2
27	1	0	0	5	1	0	2	1	6	2	1	1	0	0	0	1	2	11	17	17	32	25	22	30	7
28	30	34	42	43	38	36	37	41	40	49	57	62	45	24	16	17	21	15	8	10	16	9	12	20	30
29	5	0	0	0	0	0	0	2	5	13	11	3	0	0	4	3	2	1	4	2	1	0	3	0	2
30	1	M	0	0	0	0	2	1	1	3	4	7	0	2	0	3	0	0	1	0	0	0	0	2	1
31	0	2	0	0	1	1	2	3	1	2	2	1	1	5	1	2	7	7	7	3	1	3	7	8	3

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
4	1	4	1	12	22	37	44	0	-	62	0	-	30	3	100	0

NOTES:

1. FLAGS FOR INVALID DATA :
 D: DYNAMIC CALIBRATION
 T: TELEMETRY/DATALOGGR FAULT
 M: MAINTENANCE OR ANALYZER FAULT
 P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : POK FU LAM
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	3	2	1	3	18	5	1	2	4	3	8	33	16	15	46	15	20	15	6	7	3	6	2	10
2	3	1	2	2	5	3	1	1	4	0	3	6	12	4	4	7	3	8	1	2	9	6	4	5	4
3	5	4	5	11	13	21	27	25	30	24	25	24	14	1	6	2	3	1	2	1	1	1	0	0	10
4	0	0	0	0	0	0	0	0	0	0	1	2	0	1	1	1	0	1	0	0	0	1	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	1	1	3	2	9	0	3	2	4	2	1	6	1	1	1	1	0	9	2
7	8	4	5	7	5	6	6	6	12	10	11	8	11	8	8	10	8	9	12	12	6	12	11	1	8
8	0	0	5	3	5	3	3	6	9	7	2	10	23	12	14	20	9	6	4	4	6	4	12	7	7
9	5	5	7	1	7	8	1	3	2	1	1	1	0	1	0	1	1	0	1	0	1	0	0	0	2
10	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
11	0	0	0	1	0	1	1	0	0	1	0	3	2	1	0	2	0	1	2	1	1	0	0	1	1
12	1	6	2	6	0	4	3	13	36	65	4	3	1	4	7	7	5	9	16	14	3	11	7	2	10
13	3	5	1	1	3	3	2	6	6	2	3	2	7	6	17	10	7	6	8	4	4	2	6	1	5
14	1	1	2	5	2	1	0	1	8	0	2	0	4	5	1	4	1	3	1	2	1	1	1	8	2
15	10	8	8	6	6	6	8	10	15	20	11	7	11	4	10	8	8	9	6	8	9	7	8	1	9
16	1	1	9	5	3	1	1	1	2	6	7	0	3	1	5	2	4	4	1	0	2	0	2	1	3
17	0	0	0	0	0	3	0	2	7	2	4	12	9	0	1	2	1	2	0	1	1	3	0	3	2
18	3	6	3	4	7	9	8	13	7	2	6	8	3	5	7	4	9	9	4	7	3	4	4	11	6
19	9	10	14	8	6	7	7	5	8	8	15	17	11	7	11	11	8	9	9	11	13	11	7	5	9
20	6	8	2	3	5	7	3	5	7	14	8	1	7	6	6	5	8	12	5	6	3	2	4	5	6
21	3	6	7	8	4	7	6	10	8	10	20	17	21	17	8	6	9	16	8	10	9	5	9	8	10
22	6	4	7	9	5	6	5	9	21	27	11	14	2	6	10	8	9	11	9	8	5	11	6	3	9
23	1	6	5	6	5	3	9	7	6	11	34	3	3	6	5	9	13	14	6	6	9	6	2	3	7
24	3	16	9	3	5	9	8	11	10	4	7	13	5	7	7	10	7	7	6	3	6	8	4	8	7
25	5	1	1	5	5	1	2	9	7	2	3	4	6	4	2	4	6	6	4	4	2	3	3	3	4
26	1	3	1	0	1	2	2	7	6	5	5	4	1	0	2	4	6	2	2	1	2	0	8	3	3
27	6	7	7	8	7	9	5	7	15	7	8	9	4	5	9	9	13	9	11	7	14	10	11	11	9
28	19	10	35	28	16	18	21	16	14	11	25	30	20	10	3	10	15	5	5	4	6	4	3	5	14
29	5	4	1	1	3	2	0	0	5	16	14	7	5	5	4	8	6	9	7	7	3	2	1	3	5
30	5	4	6	5	2	5	11	8	11	10	22	31	6	0	0	15	2	13	9	10	6	4	1	9	8
31	8	9	8	12	11	15	11	12	18	13	20	16	12	8	6	7	12	12	10	12	11	6	10	2	11

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
5	5	6	5	12	16	24	30	0	-	65	0	-	14	2	100	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : POK FU LAM
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	6	7	8	10	14	9	14	16	17	14	10	31	12	12	15	13	21	18	14	18	13	18	15	14
2	18	10	8	10	15	11	14	14	12	6	6	14	16	9	6	9	12	16	15	12	22	21	16	19	13
3	26	20	18	42	44	70	77	71	74	77	79	72	39	12	13	10	11	10	11	10	9	9	9	7	34
4	6	6	5	4	3	3	6	9	12	14	10	11	8	10	14	15	15	15	14	11	8	3	1	7	9
5	6	5	5	5	4	5	6	9	13	14	12	7	11	12	8	7	6	7	7	6	5	4	2	3	7
6	2	M	4	4	5	4	11	19	14	15	15	8	4	8	14	11	6	16	11	12	11	13	9	10	10
7	10	4	3	2	4	3	7	9	13	11	10	5	9	7	9	9	9	18	21	18	11	23	18	18	10
8	9	7	31	23	37	40	29	49	62	61	57	60	56	54	70	74	62	57	33	61	81	77	76	66	51
9	59	43	30	15	27	24	7	11	15	17	12	6	6	6	9	5	7	8	11	6	3	3	3	7	14
10	7	6	6	5	4	4	7	9	11	10	8	10	8	9	9	7	12	11	9	7	7	7	7	10	8
11	7	6	5	6	6	6	8	11	14	20	16	11	12	11	11	17	18	24	18	16	11	9	9	13	12
12	18	36	26	25	5	19	24	45	55	57	16	9	10	12	11	13	13	30	41	38	14	35	19	13	24
13	13	16	7	5	6	7	11	19	9	2	4	9	11	6	25	19	11	12	17	23	15	15	20	20	13
14	11	5	4	15	6	11	8	8	11	4	6	5	5	7	6	9	8	13	10	8	14	13	14	13	9
15	16	7	5	5	5	5	9	17	16	16	10	7	10	4	1	3	5	9	13	14	16	10	10	12	9
16	7	3	25	15	11	5	7	12	14	14	6	1	6	3	5	3	6	6	2	8	14	14	9	21	9
17	7	1	0	3	2	8	8	13	19	7	9	11	16	3	4	1	1	7	8	8	16	18	8	4	8
18	8	7	3	3	11	17	10	20	8	0	1	2	2	3	7	7	6	7	6	11	5	4	3	15	7
19	10	15	17	4	4	2	2	2	1	2	9	11	9	3	5	9	3	10	13	17	19	15	7	13	8
20	13	M	5	2	10	10	2	11	9	5	4	2	13	4	10	8	4	14	4	12	6	8	9	6	7
21	2	3	12	6	2	4	10	12	6	7	11	11	14	16	6	3	5	14	6	12	7	10	10	14	8
22	10	9	6	15	5	8	6	9	10	17	11	15	3	6	6	5	8	10	14	16	12	15	15	8	10
23	4	14	19	21	11	6	20	25	20	24	41	28	22	21	17	27	15	17	18	12	28	18	10	10	19
24	8	26	9	1	2	11	12	20	12	8	2	8	5	4	4	6	6	7	11	8	15	11	10	18	9
25	8	2	6	9	2	2	14	19	9	3	4	3	9	5	2	3	10	4	4	9	8	10	8	14	7
26	5	4	2	8	6	9	10	18	12	7	9	6	2	0	2	6	2	3	9	9	11	11	10	22	8
27	11	7	5	13	5	6	5	6	19	15	7	8	2	1	5	8	12	23	37	36	46	51	54	64	19
28	64	63	81	80	72	63	64	69	65	69	78	81	56	28	18	24	25	15	18	22	32	13	16	26	48
29	20	6	3	4	8	4	8	15	16	29	28	18	15	14	15	23	13	15	17	20	14	9	13	6	14
30	8	5	5	4	6	10	15	10	15	16	19	32	18	9	7	15	5	14	10	15	14	11	7	14	12
31	12	18	12	17	14	21	16	18	19	14	15	17	17	14	10	12	15	16	13	15	16	18	21	15	16

MONTHLY STATISTICS:

ARITH-----PERCENTILES-----													RANGE-----		STN GEOM		PERCENT		NO. OF TIMES
GEOM	MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL				
	10	10	14	10	26	55	70	77	0	-	81	7	-	51	2	100	0		

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : AP LEI CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	3	11	17	7	7	5	7	8	5	6	13	4	27	14	27	23	25	29	26	18	15	17	18	27	15
2	15	11	12	22	25	17	19	11	25	19	23	13	25	12	15	17	9	12	6	10	16	15	15	15	16
3	15	9	9	23	18	14	25	32	44	42	30	65	22	7	7	3	2	2	2	3	3	3	3	3	16
4	3	2	3	3	3	3	4	4	4	5	5	4	5	4	3	4	2	4	4	4	4	5	5	4	4
5	4	4	5	5	5	5	4	5	5	4	4	4	3	3	4	2	2	3	3	3	3	4	4	3	4
6	3	3	3	4	5	6	11	13	9	15	23	14	6	6	15	8	7	15	10	10	4	7	7	11	9
7	10	7	7	6	10	9	8	12	8	9	14	5	10	5	7	8	8	6	6	8	9	10	13	4	8
8	1	3	9	22	18	19	8	4	5	15	14	31	48	22	39	41	29	10	10	11	13	20	10	6	17
9	6	5	4	4	3	3	5	7	5	4	1	1	1	1	1	1	1	0	0	1	1	1	1	3	3
10	2	3	3	3	3	3	3	3	2	3	3	3	2	3	3	2	1	2	3	2	2	2	1	3	3
11	3	2	4	3	3	3	4	4	4	4	4	5	4	3	3	2	2	3	2	3	3	4	4	3	3
12	1	2	2	3	2	2	3	2	3	3	3	4	3	5	5	4	6	8	27	9	6	11	15	11	6
13	12	17	14	12	10	13	24	29	26	9	18	9	11	6	23	15	17	18	11	6	11	10	23	14	15
14	18	7	12	18	16	10	17	10	33	40	17	13	23	19	7	12	13	9	8	9	13	8	7	16	15
15	10	14	8	12	10	12	13	14	24	21	10	9	17	M	6	11	6	5	6	6	9	6	8	7	11
16	5	7	22	20	11	8	6	8	20	24	8	6	11	11	5	6	6	12	4	11	4	6	6	10	10
17	9	3	8	11	9	14	12	20	23	12	8	18	22	8	11	3	10	17	5	8	12	9	8	4	11
18	7	7	6	5	10	22	14	17	11	13	7	12	6	16	13	7	10	12	6	8	4	6	6	16	10
19	10	24	22	13	11	10	17	18	22	11	23	20	17	7	22	7	6	10	9	9	25	17	16	11	15
20	19	13	11	13	29	20	27	27	23	27	12	11	15	12	10	17	15	22	9	11	13	22	16	7	17
21	10	15	28	15	10	14	16	16	10	19	23	25	22	27	10	12	12	14	14	14	13	22	18	13	16
22	13	28	37	29	16	10	19	20	23	27	32	43	16	25	20	17	11	19	12	13	8	16	12	12	20
23	12	19	11	22	11	8	13	10	12	14	26	18	18	18	19	23	30	30	14	10	15	13	11	8	16
24	12	31	17	7	23	26	37	38	14	34	32	13	18	13	14	11	10	7	5	4	11	11	6	10	17
25	7	4	8	6	5	5	14	20	13	5	6	6	10	6	7	7	11	13	10	11	6	11	8	13	9
26	10	7	6	7	7	9	10	19	17	11	19	14	7	7	11	13	9	10	10	5	4	8	10	15	10
27	6	14	6	18	17	24	26	8	14	9	10	10	6	4	13	12	17	7	7	8	38	16	15	22	14
28	23	22	35	35	18	27	31	19	15	20	24	34	31	16	14	21	18	10	16	10	16	8	9	72	23
29	22	9	13	11	9	7	7	6	9	10	26	13	18	20	12	14	11	11	18	13	7	11	17	8	13
30	12	9	9	10	10	9	13	13	36	56	23	25	10	5	8	17	6	14	11	13	10	15	12	35	16
31	14	14	15	13	16	15	17	12	20	31	20	M	12	14	7	15	25	13	10	7	11	11	15	17	15

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----				STN GEOM	PERCENT	NO. OF TIMES
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL	
9	10	12	10	23	28	35	41	0	-	72	3	-	23	2	100	0	

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : AP LEI CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	8	14	0	0	1	1	2	0	1	7	2	14	4	15	19	25	29	26	29	17	17	20	29	12
2	17	9	9	16	25	20	17	8	23	27	31	25	22	16	18	21	24	25	20	20	23	22	19	16	20
3	18	3	9	25	33	36	68	69	82	95	97	72	23	0	0	1	1	0	0	0	0	0	0	0	26
4	0	0	0	0	0	0	0	1	2	5	5	4	2	1	3	2	1	1	1	0	0	0	0	0	1
5	0	0	0	0	0	0	0	0	1	3	4	3	3	1	0	0	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	1	10	14	7	9	8	6	0	0	7	7	1	7	7	4	1	3	0	11	4
7	8	1	2	0	4	2	1	5	2	1	4	1	4	1	2	1	1	0	0	3	5	5	6	1	3
8	3	M	13	46	38	44	24	15	29	54	44	46	50	64	69	55	58	31	11	31	60	73	35	31	40
9	28	13	1	0	0	0	1	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	1	1	1	2	6	3	3	2	2	1	6	6	5	9	3	6	3	6	8	3
12	5	1	1	0	3	4	18	9	15	2	0	2	1	3	3	2	6	11	38	12	4	33	29	24	9
13	16	17	20	18	10	13	26	21	20	15	23	21	24	10	22	16	20	26	22	12	14	18	29	9	18
14	15	2	7	21	13	6	16	4	30	18	22	17	12	11	8	11	5	6	4	4	11	4	4	15	11
15	8	11	1	5	7	7	8	11	17	14	7	9	17	M	6	12	10	5	2	1	10	1	3	0	7
16	0	0	20	16	2	0	0	0	6	9	1	0	3	4	6	6	6	11	3	10	8	4	1	4	5
17	6	0	3	9	8	6	3	7	11	6	2	12	11	5	6	2	6	15	6	10	13	8	5	0	7
18	2	3	0	1	6	21	14	8	20	14	9	8	3	10	6	8	10	8	8	9	2	3	4	15	8
19	7	24	29	18	13	6	18	14	20	15	35	34	16	11	20	12	15	19	17	14	21	18	21	14	18
20	22	11	9	10	27	26	27	19	12	17	7	8	12	8	10	20	17	23	9	8	9	18	14	2	14
21	6	15	25	15	8	13	14	13	7	15	17	16	14	18	7	7	9	15	9	17	14	26	24	12	14
22	6	M	26	22	12	3	10	6	9	15	16	14	3	8	4	8	7	15	7	13	3	9	8	6	10
23	4	14	10	13	8	2	12	8	27	37	35	33	31	34	28	23	36	30	20	15	19	14	6	7	19
24	7	34	11	0	17	29	33	30	5	18	20	8	11	8	11	8	6	3	1	1	8	7	0	7	12
25	1	0	4	2	0	1	15	12	11	7	6	4	10	6	8	12	13	11	9	9	3	8	3	7	7
26	5	1	1	2	4	4	3	13	12	8	19	20	10	5	6	8	7	6	11	3	1	4	6	19	7
27	2	9	1	12	15	16	21	4	10	3	10	9	2	1	7	5	17	9	9	29	68	51	52	63	18
28	65	67	80	80	61	65	62	55	67	87	89	109	70	46	38	37	40	27	28	13	21	15	9	74	54
29	29	3	9	5	4	0	6	5	9	13	44	30	30	30	27	30	24	16	28	22	11	10	15	1	17
30	8	0	2	3	9	3	7	5	20	33	33	26	12	3	5	15	5	11	7	8	5	9	3	14	10
31	7	5	6	7	5	5	6	2	13	22	16	M	23	22	14	16	24	18	5	4	7	8	10	15	11

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
9	8	13	8	29	44	68	78	0	-	109	0	-	54	3	99	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : CHEUNG CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	13	13	11	8	7	7	9	19	27	23	42	29	8	6	6	13	11	4	2	2	2	3	5	4	11	
2	3	3	4	2	1	2	2	5	5	3	3	5	6	5	1	4	3	7	5	1	5	5	4	2	4	
3	1	1	1	2	2	10	16	15	10	10	15	11	14	6	4	1	0	0	0	0	0	2	11	17	6	
4	5	4	13	13	5	10	8	5	5	5	4	6	3	4	16	18	4	3	9	9	6	3	2	2	7	
5	1	1	1	2	1	1	2	4	4	4	3	2	3	2	1	2	1	1	0	0	1	2	1	2	2	
6	1	1	3	1	3	7	12	4	2	3	5	1	3	2	5	5	2	1	1	0	0	0	0	2	3	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	0	0	0	0	2	7	8	4	1	0	0	0	0	0	0	1	10	1	
9	7	4	5	2	1	2	2	5	2	2	2	1	0	0	0	0	0	1	1	3	0	0	0	2	2	
10	3	2	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
11	0	0	0	0	1	1	1	0	3	4	3	2	2	3	1	1	1	1	1	1	0	1	1	4	1	
12	2	1	0	1	1	2	2	2	2	3	3	1	2	8	11	10	14	12	4	2	2	1	1	3	4	
13	2	1	2	1	1	1	1	1	2	4	6	6	7	3	1	3	0	2	1	1	0	0	0	1	2	
14	0	0	1	0	0	0	0	1	3	4	0	1	2	0	0	0	0	0	0	0	0	0	0	6	1	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	12	1
21	2	1	0	0	0	0	0	1	3	M	M	M	1	0	1	0	0	0	0	0	0	1	1	1	1	1
22	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	2	1	0	0	0	0	0	0	1	0
23	0	0	0	0	0	0	0	1	3	2	4	2	0	0	3	3	0	0	0	0	0	0	0	0	0	1
24	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	M	M	M	0	
27	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	0
28	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	4	0	0	0	0	0	0	0	1	0
29	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	9	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
31	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
3	0	2	0	5	9	13	16	0	-	42	0	-	11	2	94	0

NOTES:

1. FLAGS FOR INVALID DATA :
 - D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHEUNG CHAU
POLLUTANT : NITROGEN DIOXIDE

MONTH: MAY

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	51	48	37	21	25	22	19	28	26	15	30	12	0	0	0	4	3	3	3	8	8	12	14	29	17	
2	16	M	11	1	0	2	1	16	1	0	0	1	0	0	0	0	0	4	6	2	12	7	38	2	5	
3	0	8	30	31	35	57	76	75	64	62	76	55	39	7	0	0	0	1	6	2	5	7	22	40	29	
4	15	15	32	30	14	24	24	14	17	13	13	18	10	10	24	25	14	12	28	21	21	8	6	0	17	
5	0	0	0	3	1	1	0	12	7	6	5	0	3	0	0	0	0	0	0	0	0	0	0	0	2	
6	0	0	7	0	6	20	38	10	9	2	0	0	0	0	1	1	0	0	0	0	0	0	0	4	4	
7	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	
8	4	16	30	53	51	56	59	37	51	70	67	57	47	51	49	43	35	10	5	7	33	72	59	73	43	
9	67	63	36	1	0	10	18	12	2	5	8	1	0	0	0	0	0	3	3	9	0	0	0	2	10	
10	8	5	1	0	0	0	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
11	0	0	0	3	5	7	14	3	16	9	9	5	5	6	0	4	1	2	4	2	2	3	0	11	5	
12	6	2	1	1	2	14	40	21	11	0	0	1	0	5	7	10	17	14	9	17	40	21	11	11	11	
13	6	1	0	0	5	1	4	1	0	0	1	1	0	0	0	1	0	1	2	4	0	0	1	6	1	
14	3	2	6	3	3	3	11	1	0	1	1	1	3	1	1	2	1	2	2	3	1	3	3	2	2	
15	2	2	2	3	3	4	4	4	1	0	0	1	1	1	1	1	1	1	1	1	2	2	1	1	2	
16	1	M	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	1	1	1	4	1	1	3	1	
17	4	4	3	4	5	4	4	4	2	0	3	2	2	3	2	2	3	3	4	10	12	4	8	4	4	
18	5	5	4	8	7	8	7	6	6	7	0	4	2	2	2	2	6	3	4	3	4	6	5	10	5	
19	7	7	14	10	8	5	20	28	12	1	1	2	2	2	2	2	2	6	5	8	4	5	7	12	7	
20	9	5	5	6	5	16	27	17	5	3	4	4	3	4	4	4	4	4	6	4	5	12	43	35	10	
21	36	23	10	9	9	13	30	32	39	M	M	M	M	0	0	0	0	0	0	0	12	24	2	12		
22	3	3	2	2	3	3	2	2	1	1	2	1	1	1	3	1	4	1	2	2	2	3	2	2	2	
23	2	2	3	3	3	3	29	22	21	6	9	7	7	2	9	11	3	3	5	3	2	3	2	2	7	
24	2	2	2	3	6	11	44	26	4	0	1	2	2	2	1	2	2	2	2	2	2	3	3	1	5	
25	2	1	2	1	1	1	2	1	0	1	1	0	1	1	3	3	2	3	3	3	3	3	2	3	2	
26	3	1	1	1	11	4	2	7	3	1	1	1	1	3	0	3	0	0	4	1	M	M	M	M	2	
27	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
28	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	22	7	5	3	39	39	28	50		
29	26	32	19	12	7	8	36	39	10	15	18	18	17	6	9	4	7	12	12	6	5	2	6	5	14	
30	26	M	27	14	13	10	10	8	23	14	4	4	3	0	0	1	1	3	5	1	6	5	9	11	9	
31	25	14	9	8	4	3	12	8	2	2	1	0	4	3	1	1	1	3	2	0	6	15	12	18	6	

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
5	3	8	3	25	39	57	67	0	-	76	0	-	43	3	93	0

NOTES:

1. FLAGS FOR INVALID DATA :
 D: DYNAMIC CALIBRATION
 T: TELEMETRY/DATALOGGR FAULT
 M: MAINTENANCE OR ANALYZER FAULT
 P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : VICTORIA PEAK
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	2	2	3	2	3	1	3	3	12	10	6	5	6	11	7	3	1	0	0	0	0	0	0	3
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	3	2	0
3	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	0	1	2	0	1	1	0	0	0	1
4	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0
7	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	2	6	2	2	0	1	0	1
9	0	0	0	0	0	0	0	4	4	2	3	4	3	2	4	4	9	6	4	5	5	5	7	17	4
10	19	18	11	6	2	6	7	9	6	7	7	8	6	10	11	9	11	10	18	9	5	6	5	14	9
11	10	14	8	10	16	25	8	2	9	4	6	9	6	7	7	7	12	14	24	13	9	17	7	10	11
12	6	2	2	1	1	3	3	4	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	1
13	0	1	0	0	0	1	1	1	1	1	2	2	3	1	1	1	1	1	0	0	0	1	0	0	1
14	0	0	0	0	0	0	1	1	2	2	2	3	2	1	0	3	1	1	0	0	0	0	0	0	1
15	1	0	0	0	0	0	0	1	7	3	21	14	9	10	8	4	2	1	1	1	0	0	1	2	4
16	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	0	0	1
17	1	0	0	0	0	0	0	2	0	0	0	1	1	1	1	2	1	1	1	1	1	1	1	1	1
18	0	0	2	9	7	6	6	5	6	6	2	3	1	2	1	1	2	2	1	1	1	0	0	1	3
19	0	1	2	1	1	1	0	0	1	0	1	0	1	1	2	1	4	1	0	0	0	1	1	0	1
20	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	1	2	1	1	1	0	1	0	1	1
21	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	3	1	0	1	3	1
23	3	2	1	1	0	1	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
24	1	1	0	1	1	3	2	2	2	1	0	1	1	1	2	1	1	1	1	1	0	1	1	1	1
25	0	0	0	1	0	0	0	1	1	0	5	2	2	2	3	2	4	3	1	1	2	2	7	1	2
26	1	1	1	0	0	0	2	5	3	1	2	3	1	2	3	8	10	9	3	3	3	2	2	2	3
27	2	3	5	2	1	4	1	5	6	6	5	6	3	4	3	2	20	9	8	4	2	2	2	2	4
28	3	2	2	1	1	3	2	4	2	2	2	2	2	1	3	2	2	2	2	3	3	5	1	2	2
29	1	1	0	1	3	1	2	4	3	3	3	1	1	1	2	1	2	1	1	1	1	2	1	2	2
30	1	0	0	0	0	0	0	2	1	1	1	1	1	2	2	0	0	0	0	3	2	3	1	1	1

MONTHLY STATISTICS:

ARITH ----- PERCENTILES ----- RANGE -----													STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
2	1	2	1	6	9	13	17	0	-	25	0	-	11	2	100	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : VICTORIA PEAK
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	7	1	1	1	2	19	2	6	10	25	20	18	15	15	29	26	8	4	3	0	0	0	0	0	9
2	0	0	0	0	0	0	0	5	4	4	7	4	3	4	6	9	5	2	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	0	2	3	4	0	2	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	4	4	5	4	1	1	4	6	6	3	1	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0	2	7	11	16	10	8	1	13	15	15	16	2	0	0	1	0	1	5
6	0	0	0	0	0	0	0	1	11	13	12	28	26	20	10	12	8	3	0	0	0	0	0	0	6
7	0	0	0	0	0	0	1	5	7	13	10	18	10	6	10	7	7	4	0	0	0	0	0	0	4
8	0	0	0	0	0	0	0	0	1	0	8	5	3	4	4	9	4	7	21	9	7	1	7	1	4
9	2	0	0	7	8	0	0	14	9	5	2	4	3	4	8	15	27	30	26	42	30	19	31	61	14
10	76	65	43	26	3	10	12	21	15	24	21	24	19	26	26	23	33	30	46	32	22	28	21	38	29
11	22	40	5	15	34	70	35	27	52	57	45	47	26	18	12	21	38	34	51	26	14	19	5	19	31
12	10	0	0	0	3	0	3	3	16	21	28	33	13	6	4	6	6	0	0	0	0	0	0	1	6
13	1	M	3	0	0	2	0	0	2	2	10	13	15	4	4	4	6	15	41	49	41	34	14	2	11
14	0	0	0	0	0	1	23	28	37	30	24	32	36	37	23	43	50	47	38	41	25	22	27	33	25
15	27	16	14	11	7	7	16	29	42	49	57	40	46	50	31	65	61	26	7	1	1	0	0	1	25
16	0	0	0	0	0	0	0	2	4	12	8	10	5	2	4	13	2	2	5	4	2	2	1	6	4
17	6	1	0	0	0	0	1	6	6	6	3	0	0	2	0	0	0	0	0	4	4	1	2	2	2
18	1	2	7	21	19	26	17	12	13	13	4	4	1	2	10	8	13	26	24	4	3	0	1	6	10
19	3	3	3	4	1	2	2	1	6	0	2	1	7	5	21	10	35	7	1	2	2	6	0	0	5
20	1	0	0	1	0	0	0	3	1	2	2	1	4	1	9	21	21	16	13	17	8	10	7	11	6
21	1	5	3	4	1	1	4	6	2	4	3	3	1	1	2	5	5	2	4	17	10	4	2	1	4
22	3	4	2	0	0	1	7	9	8	8	8	8	7	8	13	7	8	4	7	25	10	2	1	10	7
23	9	5	4	0	0	2	4	3	6	6	4	2	2	20	14	21	18	13	14	14	10	4	1	3	7
24	3	1	0	0	2	6	3	9	7	3	1	3	3	0	1	2	2	1	1	4	1	4	3	3	3
25	1	0	0	2	0	0	0	5	12	6	10	8	9	7	11	9	9	6	4	7	9	4	17	1	6
26	3	1	3	0	0	0	3	12	10	7	2	4	2	4	4	9	11	11	7	9	7	4	2	7	5
27	5	M	11	3	0	8	3	6	12	12	10	8	4	5	7	9	14	12	10	13	9	12	6	3	8
28	1	0	0	0	0	2	0	2	0	1	1	1	0	1	2	0	1	3	0	7	8	10	2	5	2
29	0	0	0	0	4	2	1	6	6	7	5	2	2	1	4	3	3	3	5	3	4	10	2	2	3
30	0	0	0	0	0	0	1	3	2	2	2	3	2	9	8	1	2	4	3	17	13	19	7	1	4

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL		
6	4	8	4	25	34	47	56	0	-	76	0	-	31	3	100	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH: JUNE

YEAR : 2018

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	6	5	10	6	5	7	4	3	15	30	12	11	9	10	10	9	4	2	2	1	1	1	1	0	7
2	0	1	0	1	1	0	0	0	0	0	0	0	1	0	0	1	0	1	1	1	1	3	2	2	1
3	1	1	1	1	1	1	1	2	1	1	1	1	1	2	2	1	2	4	1	1	1	1	1	1	1
4	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1	0	1	1	1	0	1	1
5	1	0	0	0	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1
6	1	1	0	0	0	0	0	0	0	0	0	0	2	0	0	1	1	0	0	1	1	1	1	1	0
7	1	1	1	1	1	0	1	0	0	2	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	0	1	1	1	1	1	1	1	2	2	2	1	3	2	1	1	1	1	1
9	1	1	2	1	1	0	1	4	4	4	6	3	4	9	12	9	16	4	7	4	3	3	3	16	5
10	14	14	13	6	1	2	5	6	5	7	29	15	13	10	10	21	16	12	16	11	8	21	20	33	13
11	28	19	11	7	9	15	6	1	1	1	1	1	1	1	2	2	5	11	8	8	9	9	9	8	7
12	10	10	6	6	4	4	4	5	7	5	1	1	1	1	0	0	0	0	0	0	0	0	0	1	3
13	1	2	1	1	2	1	1	1	4	5	5	4	2	3	2	1	2	1	1	0	1	1	0	0	2
14	0	0	0	0	0	0	0	0	1	7	2	2	0	0	0	0	0	0	0	0	0	0	0	0	1
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	3	0
16	3	3	2	2	1	2	2	2	2	2	3	3	2	2	2	2	2	2	2	2	2	2	1	0	2
17	1	0	1	0	0	0	0	1	1	0	1	1	1	2	2	2	1	1	0	1	1	1	1	1	1
18	1	1	1	1	1	13	6	12	8	7	4	6	2	4	4	5	3	1	1	2	1	2	2	4	4
19	5	4	4	3	4	3	2	2	4	4	5	4	3	2	4	2	4	3	4	3	3	4	5	1	3
20	3	3	2	1	1	2	2	4	4	6	5	3	1	2	2	1	1	7	4	1	1	1	2	5	3
21	8	8	5	8	5	4	6	3	3	4	5	11	8	5	3	5	4	2	2	4	6	8	4	9	5
22	4	2	2	2	2	3	7	4	3	3	2	3	7	3	4	1	1	1	2	5	2	1	1	4	3
23	4	4	3	2	3	2	5	3	4	2	2	2	2	1	2	1	1	1	1	3	2	2	3	3	2
24	3	2	1	1	2	1	1	2	2	1	1	1	2	1	2	1	1	1	1	2	0	0	1	1	1
25	1	1	1	1	1	1	1	1	2	2	3	4	3	2	2	2	2	2	2	4	4	3	2	1	2
26	2	2	0	0	0	0	1	2	4	1	5	2	3	2	3	5	5	4	2	1	0	0	1	2	2
27	2	2	3	2	2	2	3	6	5	4	6	9	6	4	4	3	2	5	2	2	2	1	3	3	3
28	2	2	4	3	3	4	7	8	14	11	4	4	3	5	4	5	5	2	3	2	2	2	1	1	4
29	1	1	1	1	2	1	2	2	5	6	M	M	4	4	2	1	2	4	1	0	2	2	2	3	2
30	2	3	2	2	2	2	3	4	7	7	2	4	3	5	5	3	3	2	2	3	2	3	3	3	3

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
2	2	3	2	6	10	15	18	0	-	33	0	-	13	2	100	0

NOTES:

1. FLAGS FOR INVALID DATA :
 - D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH: JUNE

YEAR : 2018

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	13	11	22	14	10	14	16	14	17	23	12	9	10	10	15	16	7	3	5	3	2	3	3	3	11
2	2	3	3	4	3	4	4	4	5	6	5	5	5	3	4	5	4	6	7	9	9	11	8	6	5
3	6	2	1	3	2	2	3	3	3	2	3	4	3	4	4	5	6	9	8	7	7	7	6	4	4
4	3	2	1	2	2	3	3	4	3	4	3	3	2	2	3	3	4	6	3	7	4	3	3	4	3
5	5	2	2	0	2	3	5	10	4	5	6	6	7	6	5	7	13	16	8	5	4	4	4	6	6
6	5	2	1	1	1	2	3	4	7	5	8	13	25	4	8	15	10	5	7	6	5	5	4	3	6
7	3	2	5	3	0	2	6	6	4	10	4	6	6	7	9	8	11	8	5	5	3	6	4	3	5
8	3	1	2	2	2	3	6	6	7	11	9	6	8	5	6	5	3	3	10	8	6	5	6	6	5
9	8	6	8	7	7	10	10	14	11	8	7	4	5	9	18	15	35	23	27	24	26	31	26	65	17
10	86	79	59	38	12	12	15	23	21	23	53	49	46	33	27	49	47	44	52	53	38	56	51	71	43
11	56	45	23	13	28	55	24	5	13	16	10	8	7	5	6	5	10	23	20	20	21	17	18	15	19
12	14	14	10	11	5	4	5	8	13	9	10	8	8	6	3	4	4	5	6	1	1	6	3	2	7
13	1	M	4	3	11	4	6	11	14	21	18	16	17	15	13	12	17	22	23	9	14	16	2	1	12
14	0	1	2	1	0	1	2	10	20	37	24	33	21	16	16	14	13	19	28	30	32	17	16	12	15
15	11	12	7	5	0	2	2	4	8	15	7	5	3	2	6	9	7	6	5	3	2	1	0	3	5
16	1	1	0	0	0	1	0	1	1	1	1	2	2	1	1	0	2	2	2	3	0	0	0	0	1
17	0	0	0	0	0	0	0	1	1	0	1	1	3	4	3	4	3	3	3	3	2	3	4	4	2
18	1	3	3	2	5	30	21	27	17	9	5	12	7	7	4	7	4	6	6	7	5	3	6	6	8
19	9	10	6	5	8	2	2	1	6	6	7	3	1	1	3	1	4	5	5	5	3	6	9	2	5
20	4	6	5	1	1	3	4	6	5	8	3	2	0	1	0	0	1	8	5	1	1	2	2	6	3
21	9	10	3	5	4	3	7	3	2	2	3	4	4	1	1	4	5	4	3	8	9	9	3	10	5
22	5	2	3	1	1	5	13	1	2	2	1	2	7	2	14	6	14	14	27	34	14	6	9	22	9
23	16	11	8	1	4	3	6	3	4	1	1	1	17	9	11	6	12	8	5	6	4	4	6	10	7
24	10	4	0	0	5	0	4	2	2	0	0	0	0	0	0	3	3	4	3	6	1	0	5	1	2
25	0	0	0	0	0	0	1	4	3	2	2	1	0	1	1	1	0	2	2	4	8	4	4	2	2
26	3	2	0	0	0	0	4	6	5	1	4	1	1	0	0	2	2	3	3	2	0	1	0	3	2
27	1	M	5	3	3	6	5	6	5	2	3	3	1	0	1	1	0	2	3	4	6	3	9	7	3
28	8	5	9	6	6	11	17	9	11	9	3	1	1	2	5	7	6	5	8	6	6	12	5	8	7
29	4	4	4	1	8	4	12	6	10	10	M	M	5	3	2	1	2	5	4	1	8	8	3	7	5
30	1	7	2	4	2	10	4	5	10	10	3	7	4	6	7	4	5	9	9	15	8	15	11	9	7

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL	
5	5	8	5	16	26	47	55	0	-	86	1	-	43	3	99	0	

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	6	6	6	6	5	5	5	5	8	19	14	7	13	11	13	9	7	5	4	4	4	4	4	4	5	7
2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	6	4	
3	5	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4	5	4	5	4	4	4	4	4	5	4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	5	4
5	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	5	5	5	4	4	4	4	4	5	4
6	5	4	4	4	4	4	4	4	5	4	4	6	5	6	4	5	5	4	4	5	4	4	4	4	5	4
7	4	4	4	4	4	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4
8	4	4	4	4	5	4	4	4	5	5	5	6	5	5	5	6	5	9	11	6	5	5	6	6	5	5
9	6	6	6	4	5	8	5	9	7	5	9	8	8	10	12	13	17	10	11	8	13	11	11	14	9	
10	14	14	11	7	6	7	7	11	9	12	12	14	10	10	10	11	12	11	17	10	9	8	12	19	11	
11	13	11	8	8	11	14	9	9	22	24	13	11	13	18	13	11	29	33	18	15	13	14	13	12	15	
12	8	7	7	8	9	7	9	8	6	6	8	6	5	4	4	4	4	4	4	4	4	4	4	5	6	
13	5	6	5	5	5	5	5	5	6	7	9	7	8	6	6	5	6	6	6	5	5	6	4	6	6	
14	5	5	6	7	7	11	10	6	10	7	9	9	7	6	6	8	9	7	5	5	5	5	5	5	7	
15	5	4	4	4	4	5	4	4	4	8	17	14	12	12	9	7	5	10	7	4	4	4	4	6	7	
16	6	5	5	5	5	5	5	5	5	5	5	4	5	5	5	5	5	5	5	5	5	5	5	4	5	
17	4	5	5	5	5	5	5	5	5	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	
18	5	5	6	11	8	8	11	10	10	10	7	8	6	7	6	6	5	5	5	6	5	5	6	5	7	
19	5	5	8	6	6	5	5	5	6	6	6	5	6	6	5	6	8	6	5	6	5	7	7	5	6	
20	7	7	6	5	6	7	6	6	7	9	7	6	5	5	5	7	M	7	5	5	6	6	5	7	6	
21	7	7	6	5	5	5	5	6	5	6	7	5	6	6	5	6	7	5	5	5	5	5	6	6	6	
22	6	7	5	5	7	8	8	7	6	5	7	7	6	6	5	5	5	6	5	6	7	5	6	7	6	
23	7	7	6	5	6	6	7	6	7	5	5	5	4	5	5	4	4	6	4	5	5	4	4	4	5	
24	5	5	5	5	6	6	6	6	5	5	4	5	5	5	7	5	4	4	4	5	5	8	6	6	5	
25	4	4	4	5	4	4	4	5	5	4	9	5	5	6	7	6	6	6	6	6	5	5	7	5	5	
26	5	5	5	4	4	4	5	7	8	6	M	6	5	7	6	10	10	7	6	6	10	7	6	9	6	
27	8	11	12	10	9	10	8	10	10	9	10	10	9	7	11	7	11	8	7	7	8	6	8	8	9	
28	9	7	8	6	6	8	8	10	11	8	7	9	8	7	9	8	10	8	8	7	7	11	6	9	8	
29	6	7	6	6	7	6	7	7	7	8	8	6	6	5	6	5	5	5	5	5	5	5	6	7	6	
30	6	5	5	5	5	5	5	7	6	7	5	6	6	5	5	4	4	4	4	6	5	7	7	6	5	

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
6	5	6	5	10	12	14	18	3	-	33	4	-	15	1	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH: JUNE

YEAR : 2018

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	7	5	3	8	13	14	6	9	11	10	13	3	1	0	0	0	0	0	2	4
2	0	0	0	0	0	0	0	0	0	0	1	1	2	1	1	4	2	0	1	0	0	0	0	3	1
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
4	0	0	0	0	0	0	0	0	0	0	3	4	4	5	5	6	5	5	4	2	2	1	2	0	2
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	1	0	5	15	16	12	1	1	0	0	0	0	0	0	0	2
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	2	2	7	6	7	3	3	2	3	10	18	4	3	2	5	2	3
9	2	1	0	0	2	4	5	7	4	3	3	5	6	6	11	10	22	16	20	23	26	23	26	38	11
10	40	35	24	13	5	6	10	14	13	20	21	29	21	23	21	25	35	29	45	33	26	31	41	42	25
11	24	25	8	10	25	37	40	36	50	51	37	M	M	22	15	16	49	61	30	35	23	20	15	27	30
12	13	7	7	5	10	6	20	17	20	21	31	38	28	6	6	9	6	5	4	2	2	2	4	1	11
13	0	M	2	0	0	1	1	3	7	6	11	11	9	7	10	8	7	11	28	34	29	31	23	7	11
14	2	3	4	4	6	16	19	19	25	22	24	22	18	19	18	25	32	29	27	26	16	12	11	17	17
15	14	9	4	3	4	5	6	15	21	25	31	28	29	20	16	22	38	41	17	4	1	0	0	1	15
16	0	0	0	0	0	0	0	1	0	3	1	1	2	0	0	3	2	2	3	2	0	0	0	0	1
17	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	3	0	0	0	0	2	2	1	3	1
18	2	2	3	17	10	12	19	15	14	14	5	6	2	1	3	2	4	7	6	3	2	1	1	4	6
19	1	1	5	2	3	0	1	3	4	4	1	0	4	3	11	6	18	4	2	4	0	4	3	2	4
20	2	3	1	1	1	4	2	4	5	4	3	1	1	0	3	9	M	23	3	6	3	0	1	12	4
21	8	12	4	3	1	3	7	11	8	10	9	5	4	5	7	11	13	9	12	12	8	9	8	5	8
22	7	10	4	1	6	8	14	11	8	8	11	8	6	8	14	11	12	12	17	18	26	15	7	15	11
23	12	8	9	4	5	6	10	8	9	7	3	6	7	12	11	10	11	19	17	13	5	3	3	3	8
24	4	3	1	1	4	5	7	9	7	6	5	4	4	4	6	5	3	5	6	8	6	13	11	9	6
25	3	3	1	3	0	0	3	7	7	6	14	6	5	7	10	9	15	12	10	11	10	9	12	6	7
26	6	7	4	0	0	2	6	10	11	9	M	7	6	7	6	8	13	9	13	14	15	13	9	9	8
27	4	M	10	8	4	9	9	11	5	3	2	2	2	1	5	1	4	1	3	2	5	5	9	9	5
28	8	4	3	0	0	2	5	7	5	2	1	4	3	3	7	8	10	6	4	2	5	10	5	10	5
29	1	4	1	1	6	3	8	10	14	19	16	7	6	3	9	8	10	9	10	2	3	4	6	10	7
30	3	1	2	1	0	0	3	9	9	11	3	7	5	4	4	3	2	6	3	12	9	13	9	8	5

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
6	4	7	4	20	27	37	41	0	-	61	0	-	30	3	99	0

NOTES:

1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : POK FU LAM
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	5	6	6	2	2	3	7	7	31	21	5	11	7	12	7	6	1	1	0	1	0	0	2	6
2	0	0	0	1	1	1	0	1	1	0	1	0	0	0	2	0	0	0	1	0	1	0	2	0	1
3	0	0	1	1	0	0	2	1	0	0	0	0	0	2	1	0	0	1	0	1	1	0	0	4	1
4	6	6	5	4	6	8	8	5	5	9	4	6	5	4	6	4	7	6	2	5	7	9	7	0	6
5	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
6	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	5	0	1	2	0	6	1
9	7	6	5	6	7	5	4	14	13	7	13	10	11	16	16	18	28	13	12	10	21	24	22	23	13
10	28	24	22	12	9	12	9	18	14	18	23	25	19	14	25	26	27	20	30	19	18	9	15	26	19
11	15	15	12	16	31	25	18	4	6	16	19	15	16	18	17	12	34	44	31	17	18	21	16	10	19
12	6	3	2	3	7	4	4	4	2	2	3	3	2	1	1	0	1	0	1	0	1	0	2	1	2
13	0	1	1	0	1	0	0	0	2	4	7	6	3	4	1	1	0	1	0	0	1	6	9	2	2
14	1	1	2	2	1	6	3	2	9	2	8	8	1	3	1	4	6	1	1	0	0	1	0	2	3
15	1	2	1	2	2	1	2	2	3	7	21	15	18	10	7	5	4	3	2	3	1	3	1	0	5
16	0	0	1	1	1	0	1	0	0	0	1	0	0	3	2	0	0	0	1	0	0	0	1	0	1
17	0	0	0	0	0	0	0	0	0	1	1	0	0	3	0	1	1	0	0	0	0	0	0	2	0
18	0	2	4	15	4	6	9	8	11	10	6	4	5	6	0	6	4	1	1	3	1	3	4	3	5
19	2	4	7	4	5	3	4	3	4	M	3	4	3	4	5	5	6	5	2	7	2	6	4	5	4
20	7	4	4	2	3	7	7	5	9	9	6	5	3	3	3	2	7	5	3	3	4	2	5	4	5
21	3	4	4	2	2	2	0	4	2	1	3	4	2	5	2	6	5	5	1	2	2	2	1	1	3
22	3	4	2	2	2	3	2	6	2	2	4	2	1	4	1	1	2	0	1	4	3	0	0	3	2
23	2	1	2	0	2	1	1	2	5	2	2	2	2	1	0	1	3	2	0	1	1	1	0	0	1
24	1	0	2	1	1	4	2	5	2	1	2	1	3	2	9	2	1	2	2	1	2	4	2	2	2
25	1	2	1	2	0	0	1	1	2	0	7	2	2	2	4	1	3	3	2	2	2	1	6	2	2
26	3	3	1	2	0	1	4	6	8	1	5	2	0	3	3	9	8	7	4	3	9	5	1	5	4
27	6	4	8	3	4	6	4	6	28	11	13	8	17	15	20	7	11	10	3	6	3	5	3	5	9
28	7	1	3	2	2	1	5	8	9	4	5	8	10	5	3	8	9	5	9	2	8	8	2	2	5
29	1	3	0	0	3	0	2	3	1	9	5	2	2	2	3	2	3	4	7	0	1	0	1	6	3
30	4	7	3	2	3	3	4	7	10	6	9	9	9	4	2	5	3	6	4	5	4	6	8	8	5

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL	
4	2	4	2	10	18	25	28	0	-	44	0	-	19	3	100	0	

NOTES:

1. FLAGS FOR INVALID DATA :
 - D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : POK FU LAM
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	12	9	12	11	17	30	24	21	20	32	24	19	22	21	27	21	11	12	11	10	8	7	7	6	16
2	5	4	4	4	5	4	8	10	14	10	12	10	8	9	12	15	10	9	9	7	6	6	9	7	8
3	5	M	7	5	5	4	6	9	10	9	14	10	10	9	8	5	4	6	3	4	5	5	3	3	6
4	1	1	0	1	1	3	7	11	17	16	13	10	10	9	13	15	11	9	8	3	6	8	7	6	8
5	4	1	2	1	1	1	4	6	6	7	5	4	19	4	5	7	11	12	8	5	4	2	2	5	5
6	3	1	0	1	0	0	5	6	9	7	17	45	53	40	6	10	7	5	5	4	3	2	1	2	10
7	2	1	2	3	2	2	8	5	5	5	8	6	6	5	9	7	7	6	5	4	2	2	2	2	4
8	2	1	2	2	2	2	4	6	11	14	14	13	14	10	14	14	15	21	30	19	16	13	14	8	11
9	10	5	7	5	12	14	13	26	24	18	18	20	20	18	33	27	50	27	42	57	84	86	87	86	33
10	89	78	53	33	20	25	31	37	34	42	43	67	47	43	48	54	62	44	68	53	49	48	55	59	49
11	36	39	20	34	82	82	52	28	47	59	54	59	36	29	25	19	47	70	49	31	25	23	20	24	41
12	12	5	5	4	13	3	12	15	21	27	52	53	43	11	13	13	14	9	9	1	4	4	3	1	14
13	1	4	3	2	0	0	5	10	15	19	25	26	21	13	21	17	19	36	62	76	75	75	67	12	25
14	5	13	25	13	15	38	37	41	47	40	44	38	33	28	27	40	50	51	48	51	34	30	24	29	33
15	29	23	16	15	13	9	22	40	44	44	52	45	50	33	29	49	72	81	38	10	5	4	3	6	31
16	4	3	2	3	3	4	6	9	12	12	10	10	8	7	8	12	9	8	11	11	8	6	6	9	8
17	9	M	6	5	5	5	7	11	14	8	8	8	7	9	8	7	9	9	9	9	12	12	12	12	9
18	8	8	21	39	20	30	42	28	31	30	11	16	10	7	3	4	7	6	5	9	8	9	9	10	15
19	10	7	15	9	10	4	7	13	11	M	10	5	6	9	7	15	17	18	20	21	12	17	17	9	12
20	14	14	9	7	9	20	15	16	24	19	15	11	10	9	10	11	14	13	14	11	12	12	14	14	13
21	19	17	16	10	9	10	14	19	19	19	15	15	11	13	9	13	22	15	20	23	17	16	15	9	15
22	17	18	10	7	12	13	19	20	14	11	15	11	14	22	34	21	27	21	22	33	40	13	10	10	18
23	15	14	9	7	10	10	14	14	15	13	8	12	23	18	15	22	30	31	17	9	5	4	5	7	14
24	9	6	5	5	9	12	10	16	10	7	8	6	5	6	12	7	6	8	9	9	7	19	15	9	9
25	2	5	3	4	1	1	3	7	8	7	21	10	10	10	15	11	17	17	16	17	14	13	21	7	10
26	11	9	7	1	1	4	9	16	16	9	7	6	7	7	7	10	12	12	17	13	21	19	11	13	10
27	15	21	19	14	12	19	13	18	29	18	14	10	12	11	14	8	13	14	11	14	16	13	16	13	15
28	19	6	8	4	7	11	12	14	13	10	8	13	17	8	10	12	20	15	14	11	15	19	9	13	12
29	9	12	6	12	18	11	16	18	22	30	19	14	14	12	14	11	16	22	33	13	15	12	20	28	17
30	21	17	13	12	6	17	12	26	25	23	20	18	11	8	7	13	12	19	21	17	15	19	23	11	16

MONTHLY STATISTICS:

GEOM		ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL			
11	12	16	12	37	50	68	81	0	-	89	4	-	49	2	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : AP LEI CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	12	13	19	14	10	12	9	9	24	30	22	12	32	15	18	16	10	6	5	4	4	4	5	4	13
2	3	4	4	5	4	4	4	4	3	2	4	4	4	4	3	4	4	3	3	3	5	6	7	6	4
3	5	5	5	5	6	6	5	6	6	5	5	4	5	5	6	5	6	8	3	4	4	6	6	5	5
4	5	5	5	5	5	5	5	6	6	6	6	5	5	4	2	3	5	5	4	4	5	5	5	5	5
5	5	5	4	5	5	6	7	7	6	5	6	5	5	3	6	7	6	7	7	5	6	6	6	7	6
6	7	5	5	6	6	5	6	6	7	5	5	11	9	8	6	8	7	M	M	M	M	M	M	M	7
7	M	M	M	M	M	M	M	M	M	M	M	M	M	41	29	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	1	2	1	1	0	1	0	7	13	1	1	1	0	2	1
9	0	2	1	0	0	4	0	5	2	1	10	2	0	3	M	M	39	1	1	7	0	5	15	30	6
10	19	10	10	1	0	0	0	2	1	5	18	8	3	5	4	17	12	4	12	1	10	12	15	29	8
11	18	8	3	0	4	10	6	0	2	24	10	2	1	2	5	1	16	18	3	3	14	7	7	6	7
12	11	3	1	5	4	1	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13	0	0	0	0	1	0	0	1	2	4	7	2	1	0	0	0	3	0	0	0	0	0	0	0	1
14	0	0	0	0	0	2	6	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	1
15	2	2	2	2	2	2	2	2	4	37	47	19	15	9	15	5	4	6	3	2	2	2	2	4	8
16	4	4	4	2	2	3	2	3	3	3	3	2	3	3	3	3	2	2	3	2	2	2	1	1	3
17	1	1	1	1	1	1	0	1	1	1	1	1	1	2	2	3	2	2	2	1	2	1	1	2	1
18	1	1	2	13	13	17	18	16	17	15	5	12	5	6	7	5	6	4	2	6	2	3	7	6	8
19	9	7	12	4	8	5	3	4	10	8	9	6	7	14	3	8	15	3	5	8	2	16	15	4	8
20	15	10	8	4	5	8	8	8	15	16	10	7	3	5	3	4	5	10	3	4	9	5	7	10	8
21	16	11	10	5	5	3	6	8	6	6	17	6	10	21	4	9	14	7	4	13	10	8	14	4	9
22	13	9	7	3	13	13	25	9	6	4	7	6	9	4	2	3	1	8	9	5	4	3	4	8	7
23	9	11	10	6	7	6	7	14	10	5	4	3	1	8	6	3	3	5	3	5	4	3	3	4	6
24	5	3	3	3	6	6	11	5	3	3	2	2	4	2	4	5	2	3	1	1	1	10	8	7	4
25	2	3	2	4	2	2	2	9	6	4	19	6	8	8	15	5	12	6	6	5	5	7	11	6	6
26	7	4	4	1	4	2	5	9	16	5	14	11	6	7	9	12	16	8	6	6	7	5	4	7	7
27	11	13	15	17	13	11	24	13	10	10	13	14	10	6	16	M	M	18	11	12	8	7	21	10	13
28	12	8	24	6	4	12	18	25	25	17	8	8	7	6	10	9	10	7	5	2	9	12	2	14	11
29	3	16	6	4	20	3	10	5	13	14	16	8	6	9	12	6	7	7	10	3	9	9	6	10	9
30	3	7	5	3	3	4	9	21	10	25	15	9	6	10	10	4	3	8	8	7	5	12	11	10	9

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
5	5	6	5	14	17	24	29	0	-	47	1	-	13	2	97	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : AP LEI CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	10	11	20	11	8	24	20	10	24	21	20	11	20	10	12	13	4	1	1	2	0	0	0	0	11
2	0	0	0	0	0	0	0	1	2	0	3	1	2	3	2	5	2	0	0	0	0	1	0	0	1
3	0	0	0	0	0	0	0	1	3	2	2	2	0	0	1	0	1	3	0	0	0	0	0	0	1
4	0	0	0	0	0	0	6	4	6	5	2	3	0	0	1	0	1	1	0	0	0	0	0	0	1
5	1	M	0	0	0	0	3	1	0	0	1	0	3	1	4	2	1	6	3	1	1	0	0	0	1
6	0	0	0	0	0	0	1	0	4	0	8	47	48	26	5	3	0	0	0	0	0	0	0	0	6
7	0	0	0	0	1	0	2	0	0	0	1	0	1	2	2	0	1	2	0	0	0	0	0	0	1
8	0	0	0	0	0	0	0	0	1	1	7	8	5	6	5	4	3	14	25	14	6	9	8	8	5
9	5	4	4	0	5	16	5	16	12	9	22	19	17	M	M	M	31	34	38	45	50	77	82	96	28
10	91	79	56	34	8	14	17	28	24	35	56	53	41	35	31	51	53	38	60	41	56	51	50	86	45
11	50	43	23	16	36	62	65	44	54	74	45	35	18	17	18	13	40	43	24	15	31	14	17	33	35
12	29	8	7	11	12	1	18	6	2	5	46	19	6	1	0	0	0	0	0	0	0	0	0	0	7
13	0	4	2	4	11	7	15	20	22	20	24	26	20	22	25	15	17	18	49	47	31	19	4	3	18
14	4	5	2	2	1	18	42	45	45	51	69	65	38	43	54	50	25	17	25	42	33	29	25	30	32
15	26	16	9	10	9	12	13	24	37	45	42	26	45	22	56	21	53	49	6	0	0	0	0	0	22
16	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	2	1	0	0	0	0	0	3	2	1	0	1	1	1	0	0	0	1	1	0	1	3	0	1	1
18	2	3	5	18	17	23	31	25	22	21	10	15	7	7	6	6	7	4	2	8	2	3	5	2	10
19	9	M	9	2	6	1	1	1	7	12	10	7	5	7	3	9	15	2	3	5	1	7	8	3	6
20	6	3	3	3	4	6	7	8	9	13	11	12	6	6	3	5	5	6	6	2	6	2	4	8	6
21	10	6	5	1	3	0	2	8	8	9	17	16	12	17	7	14	17	11	3	14	7	4	6	2	8
22	7	5	6	1	5	8	15	2	5	1	5	5	4	5	18	23	23	27	35	44	37	9	0	17	13
23	15	8	9	1	2	2	4	7	5	1	0	7	14	24	14	21	12	12	7	9	8	0	0	3	8
24	3	0	0	0	3	3	9	1	0	0	0	0	0	0	0	0	0	1	0	2	0	8	10	4	2
25	0	2	0	3	0	0	0	5	1	0	8	3	7	5	10	2	4	3	5	4	3	3	9	2	3
26	4	0	1	0	0	0	3	2	6	0	3	3	1	1	4	6	6	1	1	1	2	2	1	2	2
27	7	9	12	14	9	13	15	7	2	6	6	5	6	3	11	M	M	20	14	10	8	6	19	9	10
28	10	4	12	1	2	14	17	14	14	12	10	17	11	11	18	14	17	11	8	5	8	9	1	10	10
29	2	9	4	1	20	0	11	7	20	22	24	10	10	13	15	13	11	9	11	4	11	7	3	10	10
30	1	4	3	1	0	4	8	13	13	26	15	14	7	8	9	9	8	11	6	10	5	8	7	4	8

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
7	5	10	5	29	45	56	69	0	-	96	0	-	45	3	99	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : CHEUNG CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN		
1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	
11	0	0	0	0	0	1	6	6	2	16	7	3	7	3	2	5	3	0	0	0	0	0	0	0	4	3	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	1	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	1	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	1	
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	
28	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	5	1	
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1	

MONTHLY STATISTICS:

ARITH ----- PERCENTILES ----- RANGE -----											STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL			
4	0	0	0	0	2	6	9	0	-	18	0	-	3	2	100	0

NOTES:

1. FLAGS FOR INVALID DATA :
 - D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : CHEUNG CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2018
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	28	16	18	15	21	29	40	34	20	14	14	8	8	4	5	0	6	4	2	12	9	14	14	18	15
2	19	15	14	17	18	8	10	12	11	5	9	0	0	0	0	0	0	0	1	2	4	5	4	4	7
3	8	8	7	5	5	6	6	10	13	13	21	5	4	1	2	1	3	7	6	7	3	2	7	4	6
4	4	6	1	5	10	2	19	28	21	8	17	27	20	13	12	10	16	6	9	5	11	10	9	9	12
5	3	2	2	3	14	31	37	20	1	2	3	7	2	3	4	7	4	1	5	13	9	4	18	8	8
6	9	4	3	10	6	1	1	1	0	0	2	26	15	11	22	40	33	15	7	9	9	20	5	7	11
7	8	3	0	0	0	2	0	0	2	1	0	0	0	0	0	0	2	3	10	2	2	6	3	7	2
8	3	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0
9	0	0	0	2	1	0	2	5	1	5	6	5	4	2	3	3	3	27	91	75	108	109	91	49	25
10	60	42	38	28	18	50	39	30	38	29	53	39	40	41	55	42	42	46	48	92	65	42	35	74	45
11	79	39	31	54	41	79	114	88	75	92	68	37	19	12	8	9	7	8	12	8	8	7	8	9	38
12	8	3	4	7	4	5	13	18	18	16	3	12	19	3	3	5	2	4	15	7	5	2	3	8	8
13	6	M	2	2	2	2	8	5	4	4	6	9	10	10	7	21	11	31	40	81	121	118	50	8	24
14	9	7	17	49	54	51	52	58	51	45	56	72	54	43	43	45	46	47	43	37	53	57	48	40	45
15	25	18	15	8	10	14	28	16	29	31	36	35	22	7	4	3	17	51	25	67	26	4	11	6	21
16	1	2	6	7	8	7	8	9	17	12	15	20	21	7	5	4	0	2	10	17	5	5	4	5	8
17	3	4	6	0	0	14	4	14	25	13	4	3	1	1	0	0	0	0	1	9	11	6	2	8	5
18	14	17	21	12	9	16	27	15	7	3	2	1	1	0	0	0	0	0	1	0	0	2	0	0	6
19	0	1	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
20	0	1	0	0	0	2	5	1	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1
21	1	1	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2	3	1	1	0	1	0	1
22	0	0	0	0	1	2	1	0	0	0	0	M	M	M	16	16	21	19	23	27	43	60	60	54	16
23	40	4	1	2	1	0	1	1	1	0	0	5	5	12	11	20	35	31	21	24	26	22	14	14	12
24	19	4	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1
25	2	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	4	1
26	4	3	1	1	3	3	1	2	0	2	0	0	2	0	0	1	0	2	0	2	0	0	2	3	1
27	3	M	9	12	7	9	15	17	6	3	3	2	1	1	1	1	0	2	3	2	1	2	5	1	5
28	4	6	6	10	7	7	10	14	8	7	4	0	1	0	0	1	3	1	1	1	0	0	0	2	4
29	2	2	3	3	1	2	9	10	14	9	2	3	6	5	3	3	3	2	2	4	4	5	3	7	4
30	2	3	4	2	2	3	4	6	7	2	2	1	2	2	0	1	1	2	5	8	6	4	4	2	3

MONTHLY STATISTICS:

GEOM		ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
7	4	11	4	37	51	75	91	0	-	121	0	-	45	4	99	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

Appendix C Summary Results on Water Quality Monitoring

LAMMA POWER STATION FGD WASTEWATER TREATMENT PLANT EFFLUENT DISCHARGE TO ASH LAGOON SUSPENDED SOLIDS AND PH

Period : April – June 2018

Week Ending	No. of Samples	Suspended Solids, mg/L			pH		
		Maximum	Minimum	Average	Maximum	Minimum	Average
07/04/18	7	21	12	17	8.2	7.5	7.9
14/04/18	7	22	12	17	8.2	7.6	7.9
21/04/18	7	22	14	17	8.2	7.7	7.9
28/04/18	6*	21	15	18	8.2	7.8	8.0
05/05/18	5*	21	13	17	8.3	7.8	8.1
12/05/18	6*	16	12	15	8.2	7.7	8.0
19/05/18	7	20	13	16	8.2	7.5	7.9
26/05/18	7	22	12	17	8.2	7.3	7.9
02/06/18	7	20	13	16	8.3	7.7	8.0
09/06/18	7	22	16	19	8.2	7.6	7.9
16/06/18	7	21	16	19	8.3	7.7	8.0
23/06/18	7	21	13	18	8.3	7.5	7.8
30/06/18	7	22	12	17	8.2	7.9	8.0

Remark :

* - No sampling for the remaining day(s) of the week / no sampling due to no discharge

**LAMMA POWER STATION
FGD WASTEWATER TREATMENT PLANT
EFFLUENT DISCHARGE TO ASH LAGOON
TRACE METAL, TOTAL PHOSPHORUS
AND TOTAL NITROGEN ANALYSIS**

Period : April – June 2018

Sampling date		19/4/2018	8/5/2018	6/6/2018
Barium,	ug/L	<150	<150	<150
Mercury,	ug/L	<0.5	<0.5	<0.5
Cadmium,	ug/L	<1	2.1	1.8
Iron,	ug/L	<400	<400	<400
Total Phosphorous,	mg/L	<0.8	<0.8	<0.8
Total Nitrogen,	mg/L	86	79	30
Cyanide,	mg/L	<0.01	0.01	<0.01

Remark:

According to the WPCO Ash Lagoon Discharge Licence, contents at exact levels of trace metals below 1/10 th of the WPCO Licence permitted limits will not be reported. When the concentration of a metal exceeds 1/10 th of the limit, the exact value of the metal concentration will be reported.

Appendix D Summary of EMIS

EM&A Log Ref.	Mitigation Measures	Implementation Status
	GENERAL	
A1	No other process, except the Wet Limestone-Gypsum process used in the FGD plants of the coal-fired Units L6, L7 and L8 within the Lamma Power Station, shall be used in the FGD plants for the projects unless otherwise agreed by EPD.	Complied
	WATER QUALITY	
B1	All wastewater arising from the operation of the projects shall be collected and directed to the existing wastewater treatment plant within the Lamma Power Station for treatment.	Complied
B2	The operational plant effluent from the FGD plants should be reused as much as possible in order to minimise discharge to the WWTP.	Complied
B3	Maintenance of the WWTP should be performed regularly to ensure the effluent from the WWTP would not exceed the current requirements stipulated in the WPCO licence for Ash Lagoon.	Complied
	WASTE	
C1	No gypsum or sludge arising from the operation of the projects shall be disposed of anywhere. All gypsum and sludge shall be collected and reused.	Complied
	NOISE	
D1	Equipment including the Absorber Recirculation Pump, Oxidation Air Blower, Booster Fan and Booster Fan Motor of the FGD plants shall be acoustically insulated and the Gas-Gas Heater (untreated side) of the FGD plants shall be provided with reinforced lagging to reduce the noise impact.	Complied