

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**

**July – September 2018**

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

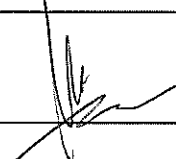


**ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499**

**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 (July to September 2018)
Date	24 December 2018
Certified by	 (Mr. IP Tat-Yan, Environmental Team Leader)

## TABLE OF CONTENT

### EXECUTIVE SUMMARY

<b>1.</b>	<b>INTRODUCTION .....</b>	<b>1</b>
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
<b>2.</b>	<b>AIR QUALITY .....</b>	<b>11</b>
2.1	Monitoring Requirements	11
2.2	Summary of Results and Observations	11
<b>3.</b>	<b>WATER QUALITY .....</b>	<b>12</b>
3.1	Monitoring Requirements	12
3.2	Summary of Results and Observations	12
<b>4.</b>	<b>ENVIRONMENTAL AUDIT .....</b>	<b>13</b>
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
<b>5.</b>	<b>FUTURE KEY ISSUES .....</b>	<b>17</b>
5.1	Outage Plan for the coming 3 months	17
5.2	Key issues for the coming 3 months	17
<b>6.</b>	<b>CONCLUSION .....</b>	<b>18</b>

### 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 July to September 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
L2	29/09/2018 00:01 to 30/09/2018 18:45	Defect rectification
L4	13/07/2018 19:22 to 16/07/2018 05:28	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	14/09/2018 09:16 to 21/09/2018 11:31	Booster fan defect rectification works	EPD was informed on 21/09/2018
L2 FGD	21/09/2018 17:00 to 21/09/2018 17:47	Repair the hot gas leakage at booster fan vicinity	EPD was informed on 27/09/2018
L4 FGD	16/07/2018 05:00 to 18/07/2018 20:03	Gas-Gas heater washing and defect rectification works	EPD was informed on 20/07/2018
L5 FGD	31/07/2018 02:02 to 01/08/2018 01:53	Booster fan defect rectification works	EPD was informed on 02/08/2018
L5 FGD	29/09/2018 12:30 to 29/09/2018 19:23	Investigation on the noisy operation of gas-gas heater (GGH) driving motor	EPD was informed on 04/10/2018

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 no environmental complaint against the operation of Lamma Power Station during the reporting period.

**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 July to September 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 SO<sub>2</sub> 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 SO<sub>2</sub> 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
L2	29/09/2018 00:01 to 30/09/2018 18:45	Defect rectification
L4	13/07/2018 19:22 to 16/07/2018 05:28	Defect rectification

### 1.4 Malfunction/Outage Records of Pollution Control Equipment

Equipment	Period	Cause	Actions Taken
L2 FGD	14/09/2018 09:16 to 21/09/2018 11:31	Booster fan defect rectification works	EPD was informed on 21/09/2018
L2 FGD	21/09/2018 17:00 to 21/09/2018 17:47	Repair the hot gas leakage at booster fan vicinity	EPD was informed on 27/09/2018
L4 FGD	07/07/2018 02:07 to 02:10	Routine Damper Exercise	EPD was informed on 09/07/2018
L4 FGD	16/07/2018 05:00 to 18/07/2018 20:03	Gas-Gas heater washing and defect rectification works	EPD was informed on 20/07/2018
L4 FGD	28/07/2018 03:37 to 03:40	Routine Damper Exercise	EPD was informed on 31/07/2018
L4 FGD	18/08/2018 01:55 to 01:57	Routine Damper Exercise	EPD was informed on 04/09/2018
L4 FGD	25/08/2018 04:18 to 04:23	Routine Damper Exercise	EPD was informed on 27/09/2018
L5 FGD	23/07/2018 02:27 to 02:30	Routine Damper Exercise	EPD was informed on 25/07/2018
L5 FGD	31/07/2018 02:02 to 01/08/2018 01:53	Booster fan defect rectification works	EPD was informed on 02/08/2018
L5 FGD	11/08/2018 01:52 to 01:54	Routine Damper Exercise	EPD was informed on 15/08/2018
L5 FGD	25/08/2018 04:03 to 04:09	Routine Damper Exercise	EPD was informed on 27/08/2018
L5 FGD	29/09/2018 02:07 to 02:12	Routine Damper Exercise	EPD was informed on 02/10/2018
L5 FGD	29/09/2018 12:30 to 29/09/2018 19:23	Investigation on the noisy operation of gas-gas heater (GGH) driving motor	EPD was informed on 04/10/2018

## 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.

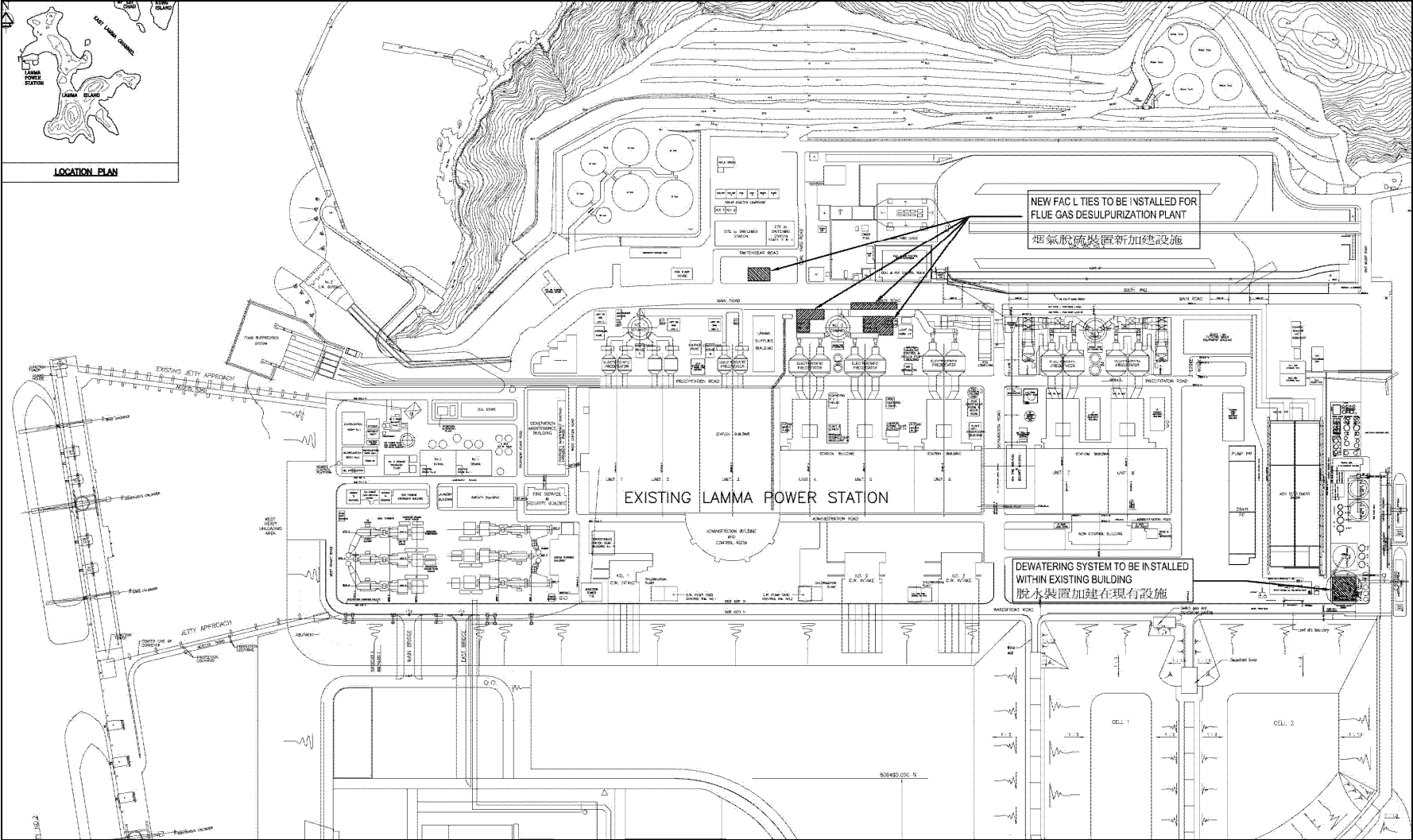


Figure 1.1a Location of New Facilities for L4 & L5 FGD Plants

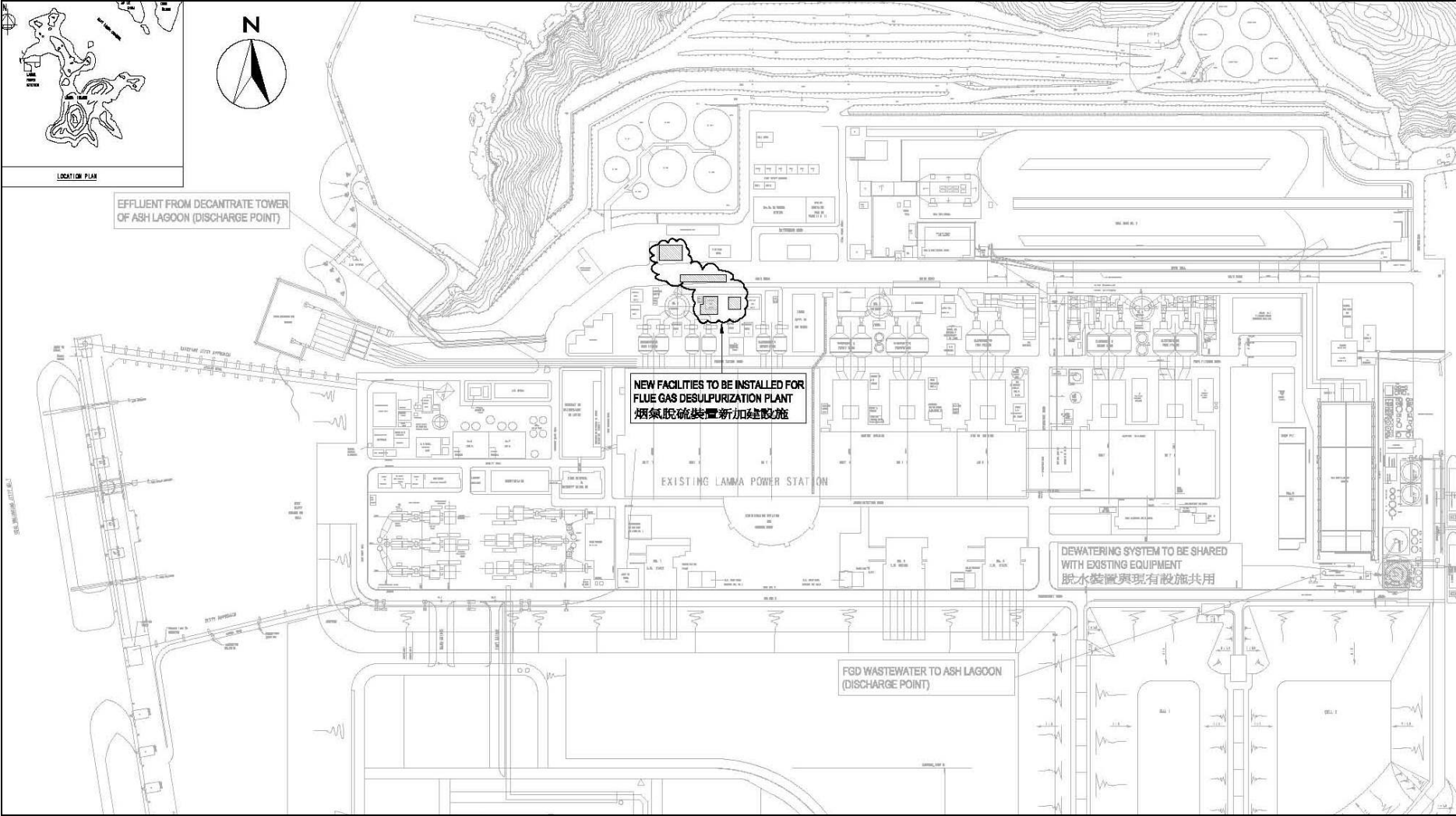


Figure 1.1b Location of New Facilities for L2 FGD Plant

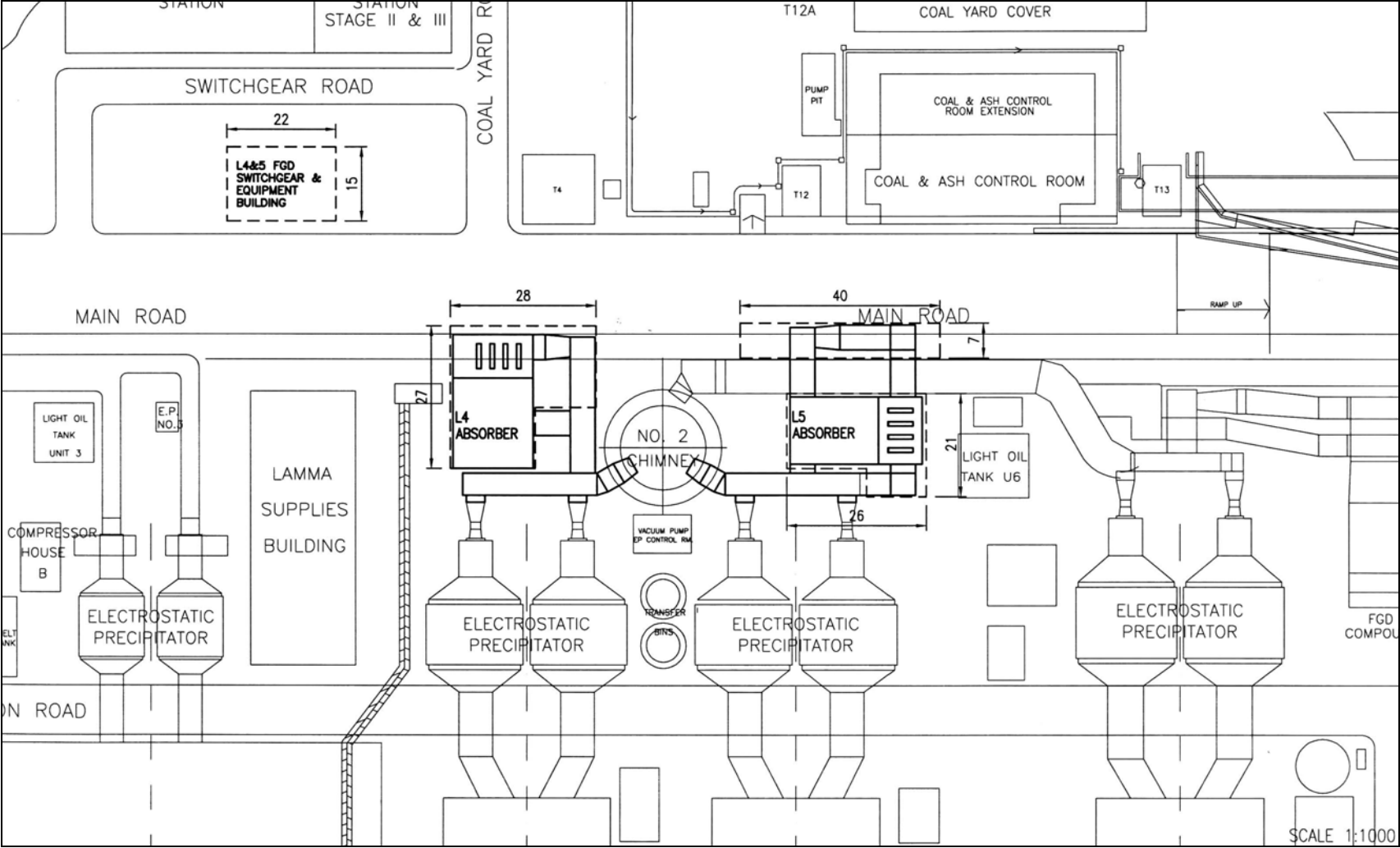


Figure 1.2a General Arrangement of L4 & L5 FGD Plants

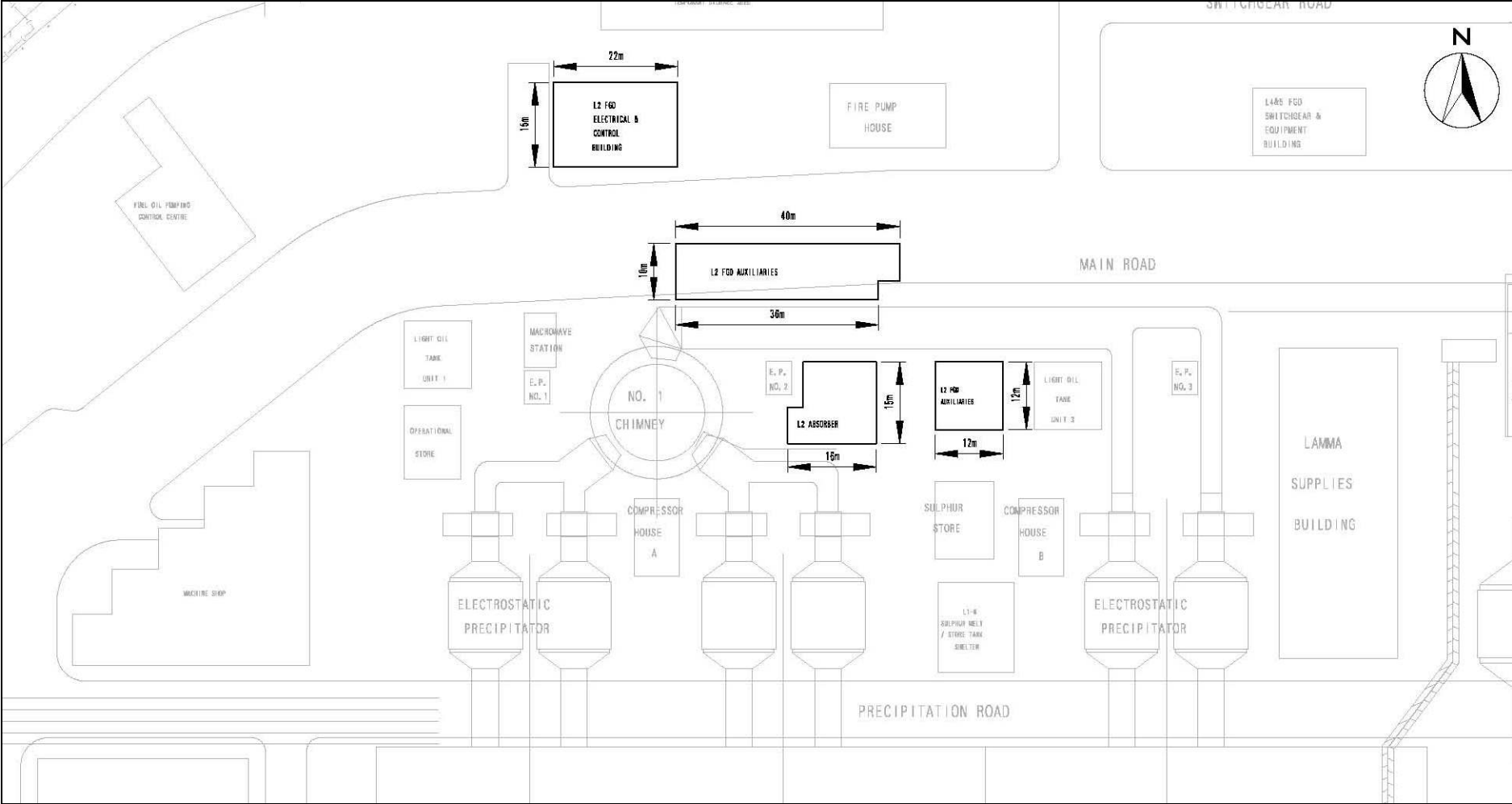


Figure 1.2b General Arrangement of L2 FGD Plant

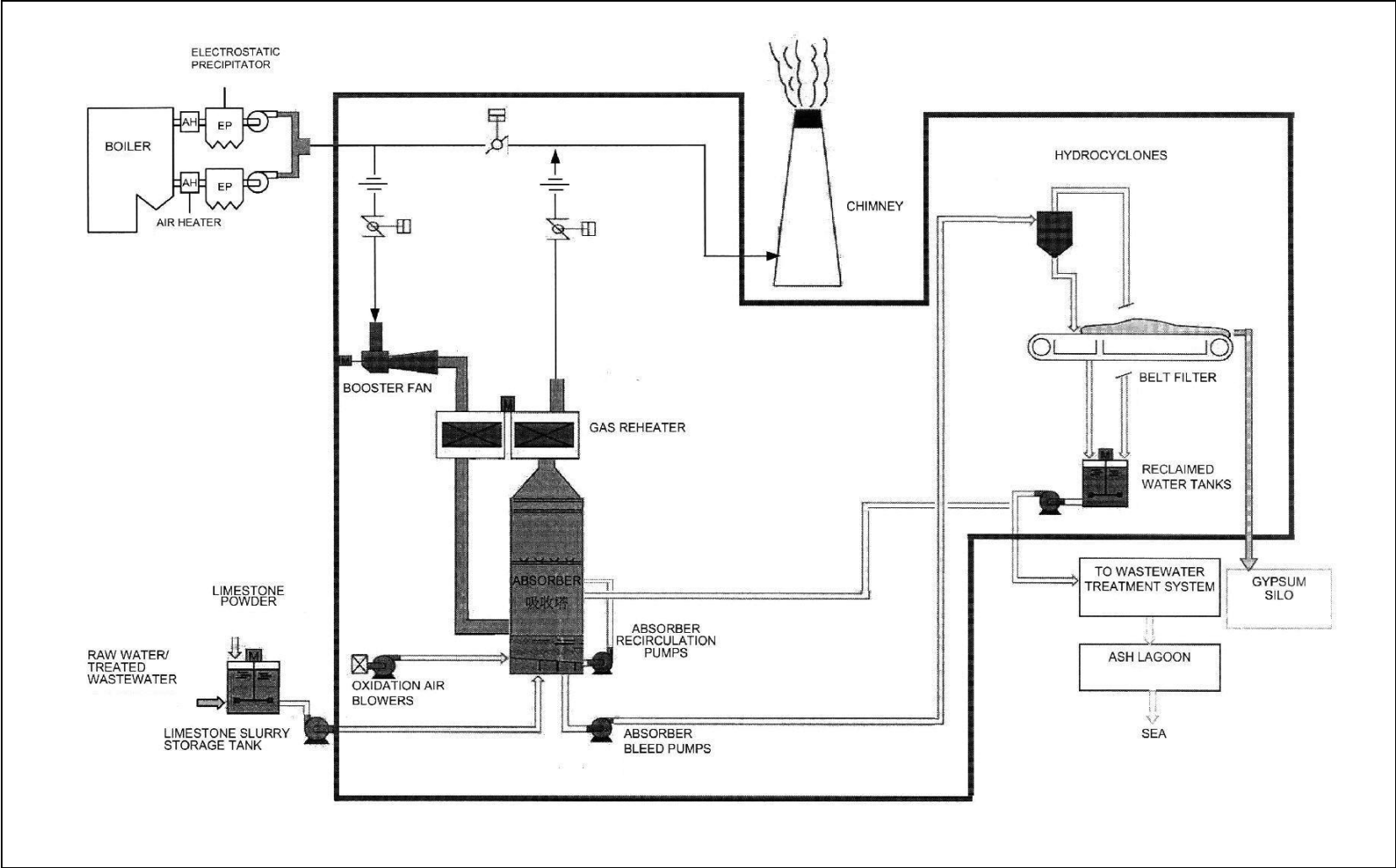


Figure 1.3 Schematic Diagram of the L2, L4 & L5 FGD Plant

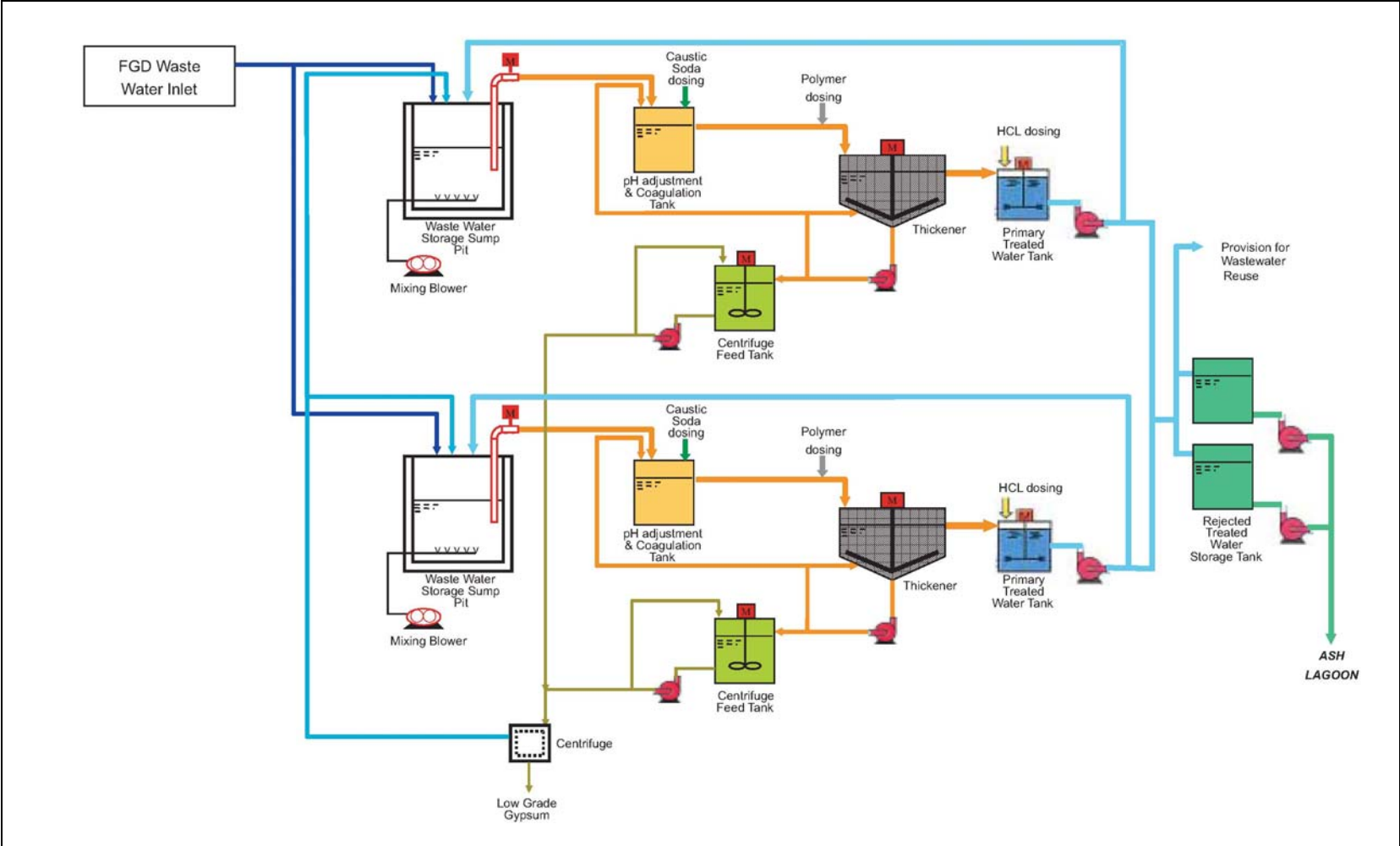


Figure 1.4 Simplified Schematic Diagram of FGD Wastewater Treatment Plant

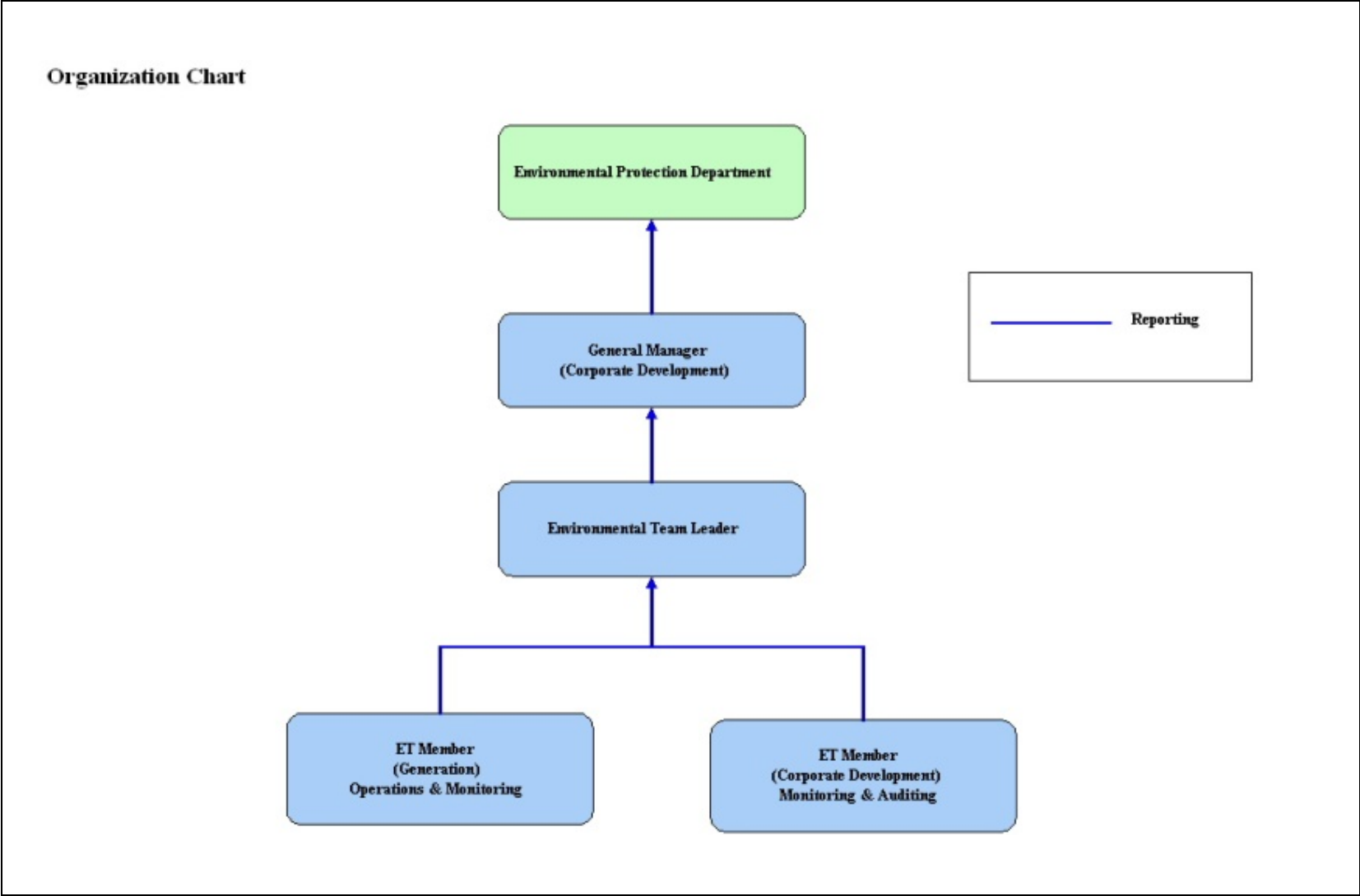


Figure 1.5 Organization Structure at Operational Phase of the Projects

## 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 <sub>2</sub>	Continuous
	NO <sub>x</sub> expressed as NO <sub>2</sub> (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 <sub>2</sub>	
	NO <sub>2</sub>	

### 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.	01/07/18-30/09/18	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	01/07/18-30/09/18	0	0	
3	Ambient SO2 & NOx monitoring at the Peak, Queen Mary Hospital, Victoria Road, Chung Hom Kok, Ap Lei Chau and Cheung Chau.	01/07/18-30/09/18	0	0	
Water					
1	pH in WWTP Effluent	01/07/18-30/09/18	0	0	
2	Suspended Solids in WWTP Effluent	01/07/18-30/09/18	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	01/07/18-30/09/18	0	0	
4	Barium in WWTP Effluent	01/07/18-30/09/18	0	0	
5	Mercury in WWTP Effluent	01/07/18-30/09/18	0	0	
6	Cadmium in WWTP Effluent	01/07/18-30/09/18	0	0	
7	Cyanide in WWTP Effluent	01/07/18-30/09/18	0	0	
8	Total Phosphorus in WWTP Effluent	01/07/18-30/09/18	0	0	
9	Total Nitrogen in WWTP Effluent	01/07/18-30/09/18	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
July 2018	4,399.00 MT	0 MT
August 2018	9,865.66 MT	176.71 MT
September 2018	2,829.01 MT	0 MT

#### 4.3 Status of Environmental Licensing and Permitting

All permits/licenses obtained as of September 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 no 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
Nil	N/A	N/A

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

Unit / Equipment	Period	Remark
L2	15/10/2018 to 05/11/2018	Unit Overhaul
L5	08/11/2018 to 21/11/2018	Unit Overhaul
L4	17/12/2018 to 13/02/2019	Unit Overhaul

### 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 July to September 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 no environmental complaint against the operation of Lamma Power Station during the reporting period.

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/Nm3	-	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	
	SO2	continuous	200 mg/Nm3 (1h)	190	200	
	NOx expressed as NO2 (For L4 and L5 only)	continuous	615 mg/Nm3 (1h)	585	615	
Chimney emissions	Ambient air SO2	Continuous at existing ambient air monitoring stations	800 (µg/m3) (1h)	-	800	ET to review data on post-hoc basis and check for possible power station contribution.
	NO2		300 (µg/m3) (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: Third Quarter of 2018 (July - September)

Date	RSP concentration ( $\mu\text{g}/\text{m}^3$ )	
	Reservoir	East Gate
01/07/2018	29	46
02/07/2018	29	70
03/07/2018	34	42
04/07/2018	26	39
05/07/2018	33	44
06/07/2018	30	35
07/07/2018	23	28
08/07/2018	16	24
09/07/2018	16	23
10/07/2018	20	27
11/07/2018	24	31
12/07/2018	12	15
13/07/2018	15	15
14/07/2018	21	25
15/07/2018	23	32
16/07/2018	##	29
17/07/2018	##	45
18/07/2018	19	27
19/07/2018	17	27
20/07/2018	14	27
21/07/2018	21	35
22/07/2018	15	32
23/07/2018	21	38
24/07/2018	29	40
25/07/2018	25	40
26/07/2018	20	29
27/07/2018	14	16
28/07/2018	14	22
29/07/2018	14	20
30/07/2018	15	22
31/07/2018	18	28

Remark: ## - No valid daily average of RSP due to insufficient valid data

Date	RSP concentration ( $\mu\text{g}/\text{m}^3$ )	
	Reservoir	East Gate
01/08/2018	13	25
02/08/2018	14	36
03/08/2018	15	33
04/08/2018	21	26
05/08/2018	21	23
06/08/2018	19	28
07/08/2018	20	30
08/08/2018	16	24
09/08/2018	17	21
10/08/2018	11	22
11/08/2018	20	29
12/08/2018	16	27
13/08/2018	16	31
14/08/2018	17	26
15/08/2018	22	36
16/08/2018	19	28
17/08/2018	19	26
18/08/2018	26	69
19/08/2018	21	33
20/08/2018	27	47
21/08/2018	27	54
22/08/2018	32	51
23/08/2018	27	61
24/08/2018	42	68
25/08/2018	65	75
26/08/2018	37	45
27/08/2018	20	31
28/08/2018	22	25
29/08/2018	22	30
30/08/2018	25	44
31/08/2018	29	44

Date	RSP concentration ( $\mu\text{g}/\text{m}^3$ )	
	Reservoir	East Gate
01/09/2018	25	25
02/09/2018	18	19
03/09/2018	18	24
04/09/2018	20	37
05/09/2018	21	37
06/09/2018	23	25
07/09/2018	20	19
08/09/2018	33	45
09/09/2018	36	47
10/09/2018	18	19
11/09/2018	45	63
12/09/2018	36	29
13/09/2018	19	19
14/09/2018	26	25
15/09/2018	29	35
16/09/2018	30	35
17/09/2018	33	25
18/09/2018	24	15
19/09/2018	23	37
20/09/2018	21	27
21/09/2018	17	20
22/09/2018	20	23
23/09/2018	17	13
24/09/2018	16	19
25/09/2018	19	26
26/09/2018	25	37
27/09/2018	28	45
28/09/2018	41	62
29/09/2018	46	62
30/09/2018	37	53

## 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) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/7/2018	35	412	19
2/7/2018	34	352	18
3/7/2018	46	370	19
4/7/2018	50	388	19
5/7/2018	41	391	18
6/7/2018	58	367	19
7/7/2018	26	360	14
8/7/2018	19	387	12
9/7/2018	39	391	14
10/7/2018	19	358	14
11/7/2018	17	366	14
12/7/2018	21	399	16
13/7/2018	20	396	14
14/7/2018	24	363	13
15/7/2018	26	372	12
16/7/2018	29	363	14
17/7/2018	26	321	14
18/7/2018	30	323	14
19/7/2018	83	301	18
20/7/2018	89	350	20
21/7/2018	55	366	9
22/7/2018	77	377	8
23/7/2018	92	372	19
24/7/2018	90	361	19
25/7/2018	83	372	18
26/7/2018	54	359	19
27/7/2018	42	366	19
28/7/2018	31	348	17
29/7/2018	76	365	7
30/7/2018	31	374	11
31/7/2018	17	377	9

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/8/2018	30	378	10
2/8/2018	17	403	9
3/8/2018	15	367	9
4/8/2018	16	383	8
5/8/2018	36	386	7
6/8/2018	21	365	10
7/8/2018	18	387	11
8/8/2018	17	378	12
9/8/2018	22	360	12
10/8/2018	25	361	12
11/8/2018	23	349	12
12/8/2018	24	322	9
13/8/2018	20	341	13
14/8/2018	23	357	14
15/8/2018	47	375	15
16/8/2018	37	308	16
17/8/2018	65	347	19
18/8/2018	*	*	*
19/8/2018	67	316	18
20/8/2018	58	357	16
21/8/2018	72	318	15
22/8/2018	54	315	14
23/8/2018	15	352	8
24/8/2018	12	367	8
25/8/2018	24	385	8
26/8/2018	24	390	9
27/8/2018	24	442	13
28/8/2018	24	393	14
29/8/2018	22	383	14
30/8/2018	25	341	12
31/8/2018	21	358	12

Date	Daily Maximum		
	SO <sub>2</sub> concentration (mg/Nm <sup>3</sup> ) <sup>#</sup>	NO <sub>x</sub> concentration (mg/Nm <sup>3</sup> ) <sup>#</sup>	Opacity (%)
1/9/2018	*	*	*
2/9/2018	*	*	*
3/9/2018	16	356	9
4/9/2018	27	404	15
5/9/2018	39	293	16
6/9/2018	43	301	16
7/9/2018	37	320	17
8/9/2018	31	403	13
9/9/2018	27	365	10
10/9/2018	17	402	10
11/9/2018	17	377	10
12/9/2018	14	363	9
13/9/2018	33	420	11
14/9/2018	16	416	10
15/9/2018	27	399	11
16/9/2018	22	359	8
17/9/2018	28	306	10
18/9/2018	28	370	11
19/9/2018	29	365	14
20/9/2018	24	342	13
21/9/2018	23	396	15
22/9/2018	23	349	13
23/9/2018	22	331	13
24/9/2018	16	312	11
25/9/2018	15	339	10
26/9/2018	20	371	12
27/9/2018	22	379	12
28/9/2018	25	358	14
29/9/2018	24	349	5
30/9/2018	20	363	5

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO<sub>2</sub> 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) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/7/2018	26	337	25
2/7/2018	24	304	26
3/7/2018	24	396	21
4/7/2018	17	355	20
5/7/2018	31	334	23
6/7/2018	33	352	23
7/7/2018	24	332	22
8/7/2018	29	337	16
9/7/2018	28	350	22
10/7/2018	20	337	20
11/7/2018	23	365	22
12/7/2018	23	361	22
13/7/2018	34	339	20
14/7/2018	*	*	*
15/7/2018	*	*	*
16/7/2018	*	392	9
17/7/2018	*	462	10
18/7/2018	4	426	14
19/7/2018	53	439	23
20/7/2018	55	452	23
21/7/2018	48	389	24
22/7/2018	80	380	8
23/7/2018	68	382	25
24/7/2018	54	391	24
25/7/2018	52	354	23
26/7/2018	56	373	24
27/7/2018	73	379	21
28/7/2018	60	367	8
29/7/2018	57	371	7
30/7/2018	30	375	24
31/7/2018	39	371	22

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/8/2018	40	379	19
2/8/2018	25	390	26
3/8/2018	19	375	25
4/8/2018	12	392	24
5/8/2018	20	353	22
6/8/2018	25	400	25
7/8/2018	36	390	26
8/8/2018	30	354	24
9/8/2018	29	359	25
10/8/2018	15	343	23
11/8/2018	20	360	21
12/8/2018	15	376	12
13/8/2018	28	361	20
14/8/2018	29	380	15
15/8/2018	50	327	18
16/8/2018	35	295	16
17/8/2018	74	298	19
18/8/2018	71	337	20
19/8/2018	59	296	9
20/8/2018	60	293	19
21/8/2018	59	313	19
22/8/2018	21	352	15
23/8/2018	38	417	15
24/8/2018	18	362	13
25/8/2018	24	333	15
26/8/2018	25	370	11
27/8/2018	23	330	12
28/8/2018	23	351	12
29/8/2018	26	343	11
30/8/2018	27	361	12
31/8/2018	24	370	11

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/9/2018	13	433	11
2/9/2018	18	424	9
3/9/2018	17	390	18
4/9/2018	25	338	16
5/9/2018	50	334	14
6/9/2018	41	340	14
7/9/2018	38	366	14
8/9/2018	14	358	10
9/9/2018	51	376	10
10/9/2018	32	387	10
11/9/2018	18	385	9
12/9/2018	11	376	9
13/9/2018	28	370	17
14/9/2018	20	373	15
15/9/2018	19	374	13
16/9/2018	24	408	12
17/9/2018	44	322	19
18/9/2018	36	346	18
19/9/2018	15	368	16
20/9/2018	33	333	22
21/9/2018	33	428	20
22/9/2018	23	392	18
23/9/2018	37	355	18
24/9/2018	31	348	18
25/9/2018	23	363	13
26/9/2018	23	359	20
27/9/2018	16	396	18
28/9/2018	29	355	20
29/9/2018	57	330	13
30/9/2018	43	409	15

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO<sub>2</sub> condition.

\* - Unit L4 was not on load.

### B.2.3 Monthly Summary of Stack SO<sub>2</sub> for Unit L2

Date	Daily Maximum	
	SO <sub>2</sub> concentration (mg/Nm <sup>3</sup> ) <sup>#</sup>	Opacity (%)
1/7/2018	39	12
2/7/2018	43	12
3/7/2018	42	14
4/7/2018	48	13
5/7/2018	39	12
6/7/2018	45	13
7/7/2018	43	13
8/7/2018	39	13
9/7/2018	32	12
10/7/2018	28	11
11/7/2018	28	11
12/7/2018	26	11
13/7/2018	42	12
14/7/2018	46	13
15/7/2018	*	*
16/7/2018	35	12
17/7/2018	28	11
18/7/2018	37	13
19/7/2018	59	12
20/7/2018	72	12
21/7/2018	*	*
22/7/2018	*	*
23/7/2018	77	12
24/7/2018	58	11
25/7/2018	68	11
26/7/2018	56	10
27/7/2018	59	10
28/7/2018	*	*
29/7/2018	*	*
30/7/2018	49	11
31/7/2018	60	11

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/8/2018	42	12
2/8/2018	38	14
3/8/2018	34	13
4/8/2018	*	*
5/8/2018	*	*
6/8/2018	33	12
7/8/2018	44	12
8/8/2018	42	12
9/8/2018	51	12
10/8/2018	55	13
11/8/2018	48	13
12/8/2018	46	13
13/8/2018	48	12
14/8/2018	50	14
15/8/2018	51	11
16/8/2018	72	12
17/8/2018	87	12
18/8/2018	108	12
19/8/2018	77	12
20/8/2018	75	13
21/8/2018	69	12
22/8/2018	65	12
23/8/2018	65	12
24/8/2018	62	12
25/8/2018	43	12
26/8/2018	51	13
27/8/2018	39	13
28/8/2018	47	14
29/8/2018	40	14
30/8/2018	51	13
31/8/2018	54	13

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/9/2018	59	14
2/9/2018	30	13
3/9/2018	42	13
4/9/2018	33	12
5/9/2018	43	11
6/9/2018	38	11
7/9/2018	37	11
8/9/2018	57	11
9/9/2018	50	12
10/9/2018	48	13
11/9/2018	*	*
12/9/2018	*	*
13/9/2018	*	*
14/9/2018	FGD plant outage	13
15/9/2018	FGD plant outage	12
16/9/2018	*	12
17/9/2018	*	19
18/9/2018	*	12
19/9/2018	*	13
20/9/2018	*	12
21/9/2018	50	10
22/9/2018	67	11
23/9/2018	49	10
24/9/2018	36	11
25/9/2018	*	*
26/9/2018	*	*
27/9/2018	*	*
28/9/2018	*	*
29/9/2018	*	*
30/9/2018	*	*

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO<sub>2</sub> condition.

\* - Unit L2 was not on load.

#### **B.2.4 Summary of Annual Stack Particulate Sampling**

Unit	Date	Results (mg/Nm <sup>3</sup> )
L2	01/08/2018	6

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

### **B.3 Ambient SO<sub>2</sub> and NO<sub>2</sub> monitoring Data at Southern District and Cheung Chau**

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

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	0	0	1	0	1	2	0	0	0	0	0	2	1	1	0	6	8	2	3	1	0	0	1	1	1
2	1	1	1	0	0	0	2	1	1	0	2	3	0	0	0	1	1	0	2	1	0	0	1	0	1
3	0	0	0	0	3	3	1	2	0	1	2	3	2	2	3	1	0	0	0	0	0	0	0	0	1
4	0	1	1	0	1	0	2	2	3	1	1	2	1	1	0	1	2	1	1	0	0	1	1	1	1
5	0	0	0	0	0	0	0	1	0	0	1	0	1	6	0	1	10	1	1	1	0	0	0	0	1
6	0	0	0	0	0	0	0	0	1	1	1	0	0	1	0	0	1	1	1	0	0	1	1	1	0
7	1	0	0	1	1	0	0	0	1	2	1	0	1	1	0	2	1	1	1	0	1	2	2	1	1
8	1	2	1	0	1	0	0	0	2	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	1	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	1	0	0	0	0	0	0	1	1	2	1	1	1	1	1	2	2	1	1	2	1
11	2	2	1	1	1	2	1	2	6	16	2	4	4	5	4	7	23	11	6	5	3	2	2	3	5
12	4	5	3	2	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13	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
14	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	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	1	0
16	1	1	1	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	0	0	1	1	1
17	1	0	0	0	0	0	0	1	1	1	1	0	1	0	0	1	0	1	1	0	0	0	0	0	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
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	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
21	0	0	1	1	1	1	1	1	1	1	13	9	8	8	6	9	6	8	6	6	6	4	5	3	4
22	4	3	5	2	1	1	1	2	3	4	4	9	11	19	3	2	2	7	2	0	0	1	6	0	4
23	0	1	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1	0
24	1	0	1	0	0	0	1	1	1	1	2	0	2	0	3	1	6	5	2	1	1	1	0	0	1
25	0	0	1	0	0	2	0	1	0	1	3	2	3	1	1	0	0	0	0	0	1	1	0	1	1
26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	1	0	2	3	2	1	2	1
27	1	2	2	1	2	3	1	1	1	1	1	1	2	2	2	3	3	1	1	3	3	1	2	2	2
28	1	1	0	1	1	1	1	3	3	1	2	2	3	7	4	6	3	4	5	3	2	2	2	1	2
29	1	3	5	3	4	2	2	2	5	6	5	8	4	3	6	5	6	4	4	4	2	1	0	2	4
30	3	4	3	2	1	4	4	3	3	17	6	13	12	7	5	2	2	1	2	2	1	1	2	6	4
31	4	2	2	1	1	1	2	1	1	3	3	7	9	2	1	3	2	2	2	1	2	1	1	1	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	
2	1	1	1	3	6	8	11	0	-	23	0	-	5	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: JULY

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	4	0	4	1	3	6	0	0	0	2	1	5	3	3	0	20	19	11	14	5	2	6	5	2	5	
2	4	1	2	0	0	0	6	6	8	2	14	12	3	3	3	3	4	5	17	8	7	5	4	0	5	
3	0	0	0	0	2	2	6	6	0	15	16	17	26	23	20	5	9	1	2	4	1	0	0	0	4	7
4	2	4	4	2	5	2	8	10	26	6	7	17	4	3	2	10	17	12	9	10	10	7	8	11	8	
5	6	3	4	2	2	3	7	9	9	10	8	6	7	26	10	12	26	12	11	12	10	9	8	8	9	
6	4	2	3	5	2	7	7	8	13	16	10	9	6	7	6	12	14	16	16	14	17	18	13	8	10	
7	6	6	4	7	7	6	6	9	10	15	15	12	13	12	16	15	23	18	35	31	10	8	14	2	13	
8	4	4	2	0	2	1	0	0	4	1	1	1	1	0	0	0	0	0	0	1	0	0	2	0	1	
9	0	0	0	0	0	0	0	2	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	6	13	12	6	3	1	4	2	0	2	0	0	2	1	0	0	0	2	
11	0	M	0	0	0	0	0	1	8	15	1	8	3	1	2	14	32	13	12	14	9	4	3	10	7	
12	8	6	1	1	0	0	4	2	3	4	1	2	2	3	1	1	0	0	1	0	0	0	0	0	2	
13	1	0	0	0	0	0	0	1	2	5	5	3	3	3	4	1	1	0	0	0	1	4	0	0	1	
14	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	
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	1	1	0	0	0	0	3	0	1	1	0	0	0	0	0	1	3	0	
17	1	0	0	0	0	0	1	3	16	12	12	24	14	14	12	17	14	15	18	1	1	0	0	0	7	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
19	0	0	0	0	0	0	0	0	1	4	3	3	4	2	3	1	0	0	0	0	0	0	0	0	1	
20	0	0	0	0	0	0	2	1	3	6	6	6	4	0	4	6	1	1	0	0	0	0	0	0	2	
21	0	0	0	0	3	2	6	15	18	20	32	29	23	17	11	11	20	24	23	33	27	28	26	4	16	
22	7	2	12	4	6	11	0	2	4	12	10	18	18	29	2	6	9	26	9	2	9	10	24	3	10	
23	7	8	8	3	0	0	0	7	13	11	7	7	5	10	8	7	5	10	6	5	9	8	2	2	6	
24	2	0	2	0	0	0	0	2	2	6	5	2	4	5	5	3	19	11	6	2	3	2	1	1	3	
25	0	M	2	0	0	3	2	5	6	13	11	9	9	5	6	7	9	10	12	5	2	8	5	3	6	
26	2	0	0	0	1	4	2	6	10	12	9	9	7	9	10	10	11	10	7	14	18	14	7	8	8	
27	7	8	8	4	6	7	4	6	4	8	10	11	5	7	7	10	14	8	11	15	21	9	13	9	9	
28	4	0	0	2	1	0	2	6	4	4	8	9	8	9	7	8	17	10	12	14	14	18	17	5	7	
29	2	9	8	7	17	11	8	1	5	7	5	7	5	3	7	10	8	8	11	18	16	14	7	8	8	
30	7	7	6	4	1	8	6	2	6	30	10	18	28	17	20	10	9	9	11	8	6	9	10	16	11	
31	12	4	3	2	1	1	8	6	7	9	7	15	16	5	3	4	4	6	5	12	7	2	2	6	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		
6	3	5	3	14	18	26	29	0	-	35	0	-	16	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 : SULPHUR DIOXIDE

MONTH: JULY

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	3	1	1	2	2	1	1	2	2	3	6	3	2	4	3	2	3	3	1	1	2	2	1	2
2	3	1	2	1	1	2	3	2	5	5	3	4	1	3	2	5	3	3	4	4	5	4	3	6	3
3	3	3	5	1	2	2	3	6	2	1	2	4	2	1	3	M	M	M	M	M	M	M	M	M	
4	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	8	7	7	5	4	5	7	3	
5	5	1	2	3	2	1	4	1	3	3	6	1	3	2	4	5	8	6	3	2	4	3	1	4	3
6	3	3	2	5	2	3	5	5	M	M	M	4	6	5	5	4	6	6	7	4	4	6	6	5	5
7	5	4	3	4	2	4	3	4	3	3	5	6	1	1	0	0	1	2	1	1	1	3	3	3	3
8	3	3	1	1	1	1	1	1	3	2	1	1	0	0	1	1	0	0	0	1	1	0	0	1	1
9	0	0	1	1	1	1	1	1	1	1	1	0	1	1	2	1	1	0	1	1	0	1	0	1	1
10	1	0	0	0	1	1	1	1	0	0	0	0	1	2	2	1	1	2	0	2	2	1	1	1	1
11	1	2	2	2	1	1	1	1	2	8	5	8	5	6	7	5	8	6	4	3	2	4	2	6	4
12	4	5	4	4	3	2	2	5	2	1	0	1	1	1	1	0	0	0	0	0	0	0	0	1	2
13	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	1	1	1	1	0	1	1	0	0	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	1	0
15	0	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
16	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1
17	1	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	2	2	2	1	1	1	1	1	2
18	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	1	1	0	0	0	1	1	0	0
19	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
20	0	0	0	0	0	1	1	1	1	0	0	0	0	1	0	0	0	1	1	1	1	1	2	2	1
21	1	1	1	1	1	1	1	1	15	27	21	13	8	2	3	14	4	4	2	3	5	5	4	5	6
22	6	3	9	9	6	12	13	16	21	10	4	5	12	3	2	4	4	5	9	10	14	12	8	10	9
23	15	14	12	4	2	2	0	0	2	1	1	1	1	1	1	0	0	1	1	0	3	2	1	1	3
24	0	1	1	1	1	0	1	1	1	1	1	2	1	1	2	3	3	2	2	1	2	1	0	0	1
25	0	0	1	1	2	2	2	2	1	8	7	4	8	2	0	1	4	1	1	1	0	2	2	1	2
26	1	0	1	1	1	1	2	1	2	1	2	2	2	2	5	2	1	1	3	2	2	1	2	2	2
27	1	2	2	2	2	2	1	2	4	2	2	3	3	2	7	4	3	2	1	2	1	1	1	1	2
28	1	0	1	1	1	1	1	2	2	2	1	2	5	3	5	1	1	1	1	1	2	2	2	2	2
29	2	2	3	4	5	4	4	9	14	16	15	7	5	5	6	4	3	5	3	1	1	1	1	2	5
30	1	1	2	2	1	2	2	3	3	4	9	7	6	3	3	1	1	1	1	2	1	1	1	2	3
31	2	1	1	1	1	1	1	3	2	3	2	3	M	2	2	8	2	2	2	1	1	0	1	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		
2	1	2	1	5	7	12	15	0	-	27	0	-	9	2	96	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: JULY

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	8	4	6	9	8	2	1	1	3	5	8	7	5	6	6	3	13	16	9	4	12	18	9	7
2	15	4	11	4	6	10	13	4	4	5	9	9	5	12	8	7	6	13	20	22	26	13	6	12	10
3	3	9	15	3	7	4	8	13	3	2	4	8	1	2	6	M	M	M	M	M	M	M	M	M	M
4	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	10	12	12	8	5	8	11	4	
5	13	1	7	7	2	3	13	3	10	6	10	1	3	3	7	10	12	8	8	11	12	5	1	9	7
6	6	5	3	5	3	7	13	8	M	M	M	4	4	3	5	4	8	10	14	2	8	13	9	14	7
7	7	11	12	9	4	11	9	11	3	5	5	6	2	5	3	2	5	5	7	16	2	9	10	6	7
8	6	7	3	3	2	0	3	3	8	1	0	2	1	0	1	2	0	0	2	3	3	0	1	0	2
9	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	2	0
10	2	0	0	0	1	0	0	2	1	0	0	0	0	0	1	0	1	2	5	10	5	3	2	5	2
11	0	M	4	1	1	0	0	3	6	15	8	10	5	4	5	4	10	16	12	13	15	12	9	22	8
12	13	18	11	4	4	7	4	6	5	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3
13	6	0	2	0	0	0	1	6	1	2	0	2	1	3	1	1	3	5	2	0	0	2	1	2	2
14	0	2	0	0	0	2	0	1	0	0	0	0	0	1	0	2	1	1	0	2	2	4	0	1	1
15	1	1	0	1	0	0	1	2	1	1	0	0	0	0	1	0	1	2	1	0	0	1	0	2	1
16	1	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	1	3	7	6	3	1
17	2	2	3	2	2	3	3	3	4	3	3	2	3	1	0	2	2	4	4	4	4	1	0	0	2
18	0	0	0	1	3	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0
19	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	1	4	0	2	2	0	1
20	1	0	0	0	0	2	4	2	0	0	1	0	0	0	0	0	0	0	2	3	4	8	7	7	2
21	0	0	0	0	1	1	0	1	19	30	19	12	6	1	2	8	5	16	12	14	13	13	15	17	9
22	24	8	26	32	17	42	31	20	20	12	4	4	6	2	2	3	7	13	23	30	34	36	34	38	20
23	38	34	23	6	2	1	1	4	4	0	0	0	2	2	1	0	5	5	4	4	11	9	1	3	7
24	1	1	1	0	0	0	0	1	0	0	0	0	0	0	1	1	1	2	3	0	1	0	0	0	1
25	0	M	1	0	5	5	5	3	1	8	8	0	4	0	0	0	3	1	4	4	1	9	5	3	3
26	1	0	0	2	1	1	5	1	1	0	2	0	1	0	2	3	1	1	3	9	4	2	0	4	2
27	2	10	8	6	5	5	2	4	3	1	1	0	0	0	5	2	6	2	1	5	6	2	1	3	3
28	2	3	3	2	1	1	0	2	2	0	0	0	2	0	1	0	0	0	1	5	6	4	5	3	2
29	4	11	12	14	13	4	2	6	8	9	9	4	2	2	1	1	1	4	5	4	3	1	1	6	5
30	6	6	11	9	8	12	13	8	5	3	6	4	3	1	1	0	0	1	3	8	2	2	2	6	5
31	7	5	3	4	5	2	4	6	5	4	0	4	M	1	0	3	1	3	4	9	2	1	1	4	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	2	4	2	11	14	23	32	0	-	42	0	-	20	3	96	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: JULY

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

STATION : VICTORIA ROAD SUBSTATION  
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	2	4	1	9	2	2	3	3	2	9	3	1	1	18	13	17	16	5	5	2	9	6	6
2	5	1	3	1	1	1	7	1	4	3	8	13	3	3	2	4	2	1	10	16	7	6	5	5	5
3	1	0	1	0	1	1	8	9	8	11	13	15	15	17	16	7	11	5	8	4	3	3	2	6	7
4	2	4	1	1	10	2	11	13	10	3	3	9	4	3	5	5	6	8	5	6	11	6	9	0	6
5	0	0	0	0	0	0	0	0	0	12	9	6	6	21	13	14	17	10	11	17	8	10	6	13	7
6	5	5	7	9	3	7	11	11	18	14	9	5	4	19	4	7	13	13	14	9	11	9	8	9	9
7	10	5	13	11	12	7	13	10	10	10	11	11	8	8	16	17	11	6	10	18	10	8	10	17	11
8	16	17	17	17	18	16	15	15	15	16	15	15	15	15	15	16	15	14	14	15	15	14	14	17	15
9	19	12	13	13	12	12	14	14	14	15	15	15	14	14	14	M	22	26	25	23	22	21	21	4	16
10	3	2	2	2	2	3	6	8	13	11	7	6	6	7	9	10	11	9	8	9	7	7	6	7	7
11	6	M	6	13	17	12	12	28	24	12	6	9	9	12	6	16	29	20	21	20	15	15	11	19	15
12	19	19	12	9	5	6	5	8	9	8	8	6	7	5	6	6	6	7	7	6	5	5	4	2	8
13	4	2	1	1	2	1	3	5	7	6	7	6	9	6	4	4	5	8	5	5	4	3	4	5	5
14	3	2	1	1	1	1	4	3	4	7	4	2	2	7	3	4	3	4	3	3	3	3	1	4	3
15	3	4	2	3	2	2	3	4	4	4	3	3	3	2	3	3	3	4	4	3	2	3	3	3	3
16	3	2	3	2	2	2	3	3	5	5	4	4	4	5	5	5	7	7	7	6	5	7	9	8	5
17	7	7	6	5	5	6	9	9	14	13	11	13	13	12	11	11	13	16	19	12	9	6	4	4	10
18	3	3	3	3	3	3	3	4	4	5	5	5	6	5	5	5	5	6	6	5	4	4	4	3	4
19	1	1	0	0	0	0	2	3	4	4	3	4	5	3	4	6	3	3	4	3	4	2	2	4	3
20	4	2	1	1	1	2	5	6	6	5	6	5	5	5	6	7	5	7	6	6	6	5	8	8	5
21	6	5	3	5	5	14	18	18	20	24	26	26	25	19	15	15	14	19	19	21	22	14	24	16	16
22	16	13	29	15	14	23	14	14	14	13	11	12	10	15	12	11	11	15	12	11	29	26	28	25	16
23	26	18	11	6	2	1	3	7	9	6	6	5	6	5	8	5	5	7	5	8	13	11	4	7	8
24	7	14	20	4	3	4	9	12	11	12	9	10	9	8	16	17	22	26	23	11	11	11	8	8	12
25	6	M	7	5	5	9	16	15	14	13	15	11	15	12	10	11	14	18	17	14	10	10	12	9	12
26	5	3	2	6	6	10	10	11	19	15	8	12	8	11	12	12	16	12	13	16	14	12	8	8	10
27	7	13	10	6	8	10	9	15	14	11	10	9	12	7	10	11	13	11	12	17	16	10	10	8	11
28	6	3	3	4	6	6	6	10	10	8	11	17	16	8	14	13	8	8	8	11	10	10	10	7	9
29	7	9	11	6	3	11	15	10	8	7	5	13	19	11	5	4	8	6	6	11	6	4	4	7	8
30	6	4	3	4	2	10	7	5	7	14	13	7	18	10	7	4	3	3	10	5	4	3	6	14	7
31	8	5	3	1	1	6	7	9	10	7	1	3	5	0	1	4	8	9	10	6	5	3	7	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		
7	7	8	7	16	19	24	26	0	-	29	3	-	16	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: JULY

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	7	7	5	6	5	6	6	3	7	7	8	13	9	7	4	14	8	6	10	9	6	6	8	8	7
2	9	8	5	2	5	5	9	4	5	3	5	7	6	3	2	2	8	6	6	8	4	5	6	1	5
3	0	1	1	0	2	2	2	1	0	1	2	1	0	2	3	1	3	3	2	1	2	2	1	8	2
4	6	3	7	9	5	3	7	5	4	5	5	2	8	7	5	8	4	7	3	4	3	1	4	1	5
5	0	1	0	0	0	0	2	1	3	4	1	0	0	2	1	4	6	1	2	0	0	1	0	5	1
6	5	5	2	1	3	6	6	3	8	2	6	7	7	4	3	3	6	4	6	2	1	5	6	4	4
7	2	4	7	10	5	1	3	4	5	8	11	4	3	4	9	3	2	4	2	2	3	2	3	5	4
8	3	0	1	1	1	0	0	1	2	1	2	2	0	0	0	1	1	0	0	2	0	1	0	6	1
9	6	3	5	6	4	6	8	4	6	2	8	6	5	5	6	8	5	6	4	5	4	4	8	5	5
10	3	6	7	6	4	4	6	5	6	6	2	5	5	9	7	8	6	7	6	7	6	8	6	6	6
11	4	4	5	4	5	23	27	35	23	4	6	9	6	11	5	19	23	11	11	8	8	6	9	1	11
12	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0
14	0	1	0	1	1	1	1	0	1	0	1	0	1	0	2	0	0	0	0	1	1	1	0	0	1
15	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0
16	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	1	0
17	1	4	1	1	2	1	5	1	5	2	2	5	1	2	0	2	2	2	3	3	1	1	3	1	2
18	1	1	0	1	1	2	2	0	1	2	1	1	1	2	2	1	1	3	3	1	0	2	3	2	1
19	0	2	3	2	1	1	2	2	1	1	2	3	2	0	1	3	2	0	0	1	2	2	1	0	1
20	0	1	1	0	0	0	1	0	0	0	0	M	0	1	1	0	0	0	0	1	0	1	0	0	0
21	1	1	0	0	1	3	23	11	6	53	34	14	12	5	18	9	5	10	7	7	2	7	5	10	
22	1	2	8	3	1	1	0	4	3	0	6	3	3	3	0	0	1	3	0	0	3	6	3	4	2
23	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	5	0
24	5	5	10	3	3	5	2	6	4	2	5	4	5	8	11	6	14	16	9	7	3	6	3	0	6
25	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4	2	0	0	0	0	0	0	0	4	0
27	0	5	6	2	3	7	2	3	3	2	6	12	9	4	3	8	5	2	3	7	6	1	4	1	4
28	0	0	0	0	0	0	1	1	2	1	10	18	15	3	12	11	4	4	3	2	1	0	1	6	4
29	6	6	11	4	6	3	30	12	9	16	11	8	7	2	6	6	13	4	8	7	5	1	3	8	8
30	7	2	7	4	0	11	9	4	2	15	36	21	24	1	1	1	1	6	6	1	3	2	6	22	8
31	15	8	12	4	9	7	6	4	7	6	10	7	8	2	2	4	11	9	9	3	6	3	7	4	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		
3	2	4	2	8	11	18	23	0	-	53	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: JULY

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	M	12	15	6	21	10	14	18	12	11	13	9	7	6	26	15	13	20	19	18	18	14	16	14
2	15	12	4	6	6	11	14	5	14	11	12	13	14	10	9	10	13	10	19	25	12	12	12	7	12
3	7	5	12	5	5	6	11	15	7	14	10	16	8	12	10	11	18	12	17	14	12	11	9	13	11
4	11	11	25	19	6	10	21	20	6	14	9	6	12	11	13	9	9	16	12	16	15	12	13	8	13
5	8	7	2	1	2	2	11	12	16	13	8	5	9	4	13	9	22	10	10	14	8	8	7	15	9
6	4	5	7	9	7	9	16	16	14	10	8	5	9	8	3	4	10	14	16	9	12	14	11	9	10
7	8	8	8	17	16	6	13	12	12	16	16	16	23	14	18	16	18	13	21	41	12	8	13	11	15
8	6	9	9	5	9	5	2	2	5	5	5	2	4	3	3	0	1	5	7	6	5	6	7	5	5
9	7	3	3	4	3	4	8	10	11	10	8	4	6	5	4	5	3	6	4	2	3	1	1	4	5
10	3	0	2	1	2	3	6	12	22	16	12	9	9	12	12	8	8	9	5	9	13	7	7	13	8
11	10	7	4	14	15	39	46	44	28	7	10	12	7	13	5	17	27	20	19	19	16	13	15	15	18
12	19	18	11	8	5	5	4	7	7	8	7	7	6	8	5	7	5	6	8	6	7	6	7	4	8
13	6	2	1	1	2	1	2	6	8	16	13	12	8	12	9	4	4	6	10	7	9	12	3	3	7
14	1	2	1	2	1	1	3	2	3	3	3	1	1	6	2	2	2	2	5	4	3	2	1	4	2
15	4	M	1	2	0	1	2	2	3	2	3	3	1	2	3	3	3	3	3	2	2	2	3	5	2
16	2	1	1	0	1	1	3	7	12	10	6	7	6	8	4	7	9	10	15	9	7	6	8	14	6
17	10	7	5	5	5	6	9	12	19	16	13	12	11	10	9	10	13	22	24	10	7	3	1	1	10
18	1	1	1	1	1	2	1	4	4	5	4	5	5	4	6	5	6	7	7	1	1	2	1	3	3
19	2	3	2	2	3	2	4	6	8	11	10	9	10	7	10	8	3	4	4	5	5	3	2	3	5
20	3	1	1	1	1	4	8	9	9	10	11	M	8	3	6	11	5	5	6	5	4	4	6	6	6
21	5	6	5	8	10	22	41	40	37	43	40	37	28	21	16	15	13	24	25	30	26	21	26	28	24
22	25	27	43	31	39	31	12	18	18	10	11	13	8	12	12	11	15	19	15	20	43	50	48	41	24
23	17	9	9	8	4	3	4	7	8	6	4	5	6	6	7	6	6	7	6	11	12	11	4	8	7
24	8	17	23	4	4	5	7	11	14	12	11	8	11	11	17	16	25	27	21	14	13	12	8	5	13
25	3	6	7	5	4	10	9	6	11	12	14	10	12	9	10	8	9	13	12	9	7	10	12	6	9
26	5	3	3	3	8	16	7	9	13	9	8	11	5	9	14	9	12	11	11	15	15	15	10	10	10
27	9	18	15	10	14	15	10	14	10	17	18	12	13	9	12	17	15	15	16	24	20	10	14	12	14
28	12	7	8	10	9	10	8	14	15	14	17	18	18	8	16	13	12	12	13	18	16	15	15	13	13
29	16	M	21	13	15	20	29	17	13	18	10	10	12	8	8	9	8	6	13	21	13	12	10	17	14
30	16	12	15	14	9	24	18	11	8	24	26	21	26	10	8	13	11	10	17	11	10	12	19	39	16
31	30	17	14	9	10	16	16	15	17	19	10	11	13	11	5	9	13	15	22	19	15	12	16	21	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		
8	9	10	9	19	25	37	41	0	-	50	2	-	24	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: JULY

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	10	11	6	3	5	15	2	3	7	7	5	17	5	6	2	27	11	14	15	12	5	14	11	10	9
2	8	6	3	1	4	7	10	2	7	4	10	12	3	13	6	11	11	7	13	11	4	6	6	4	7
3	3	3	7	5	10	4	8	14	7	4	5	8	4	4	8	11	13	4	11	7	9	4	6	10	7
4	5	8	7	6	5	4	11	9	2	5	7	5	6	3	6	3	6	12	8	5	5	9	8	12	7
5	8	5	10	4	11	5	13	10	14	7	9	8	8	9	7	14	15	12	5	6	8	6	7	11	9
6	6	9	6	13	6	5	9	14	16	16	14	4	10	19	5	5	7	6	14	3	5	10	14	20	10
7	9	7	10	13	9	6	7	9	14	9	3	11	9	11	5	3	6	4	4	4	3	5	10	7	7
8	6	7	5	3	4	3	4	4	5	6	2	3	2	2	2	2	1	1	2	2	2	2	1	4	3
9	5	1	2	2	2	2	2	3	2	2	2	1	1	2	3	2	1	0	1	1	1	1	0	2	2
10	2	0	1	1	2	2	2	2	2	1	1	2	2	4	4	3	2	3	2	5	4	3	3	4	2
11	3	8	5	8	9	24	30	37	37	25	12	9	7	11	11	15	26	12	15	10	7	20	7	18	15
12	22	17	11	12	6	5	2	4	8	2	1	1	1	1	1	1	1	0	0	0	1	0	0	0	4
13	2	1	1	1	1	1	0	3	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	2	1
14	1	2	1	0	1	1	1	0	1	1	2	1	0	2	0	0	1	1	0	0	0	2	1	1	1
15	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
16	2	2	2	1	1	1	1	1	1	2	1	1	2	2	2	1	1	1	1	1	0	1	3	3	1
17	2	2	2	2	2	3	3	4	4	4	3	3	2	2	2	1	2	2	3	2	2	2	1	0	2
18	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
19	1	1	1	0	1	1	1	1	1	1	0	0	0	0	1	0	1	1	0	0	0	0	0	0	1
20	0	0	0	1	1	1	2	1	1	1	0	1	0	1	1	0	1	1	1	2	2	3	3	5	1
21	2	2	2	2	2	5	21	37	57	52	50	27	17	20	13	16	11	21	9	20	29	8	19	26	20
22	13	10	35	23	10	22	10	32	24	9	17	13	16	15	14	9	8	10	12	18	22	18	28	23	17
23	21	36	15	9	4	3	2	3	5	3	3	3	3	3	4	1	1	4	3	3	9	10	2	3	6
24	6	9	11	3	3	3	5	4	7	11	4	5	6	6	16	4	25	16	10	8	7	4	3	2	7
25	1	2	4	4	4	10	2	7	6	9	12	8	11	4	3	2	3	2	2	2	1	3	5	4	5
26	2	0	1	2	5	8	3	2	4	3	4	M	3	11	10	11	3	1	3	5	6	5	4	6	4
27	4	9	7	6	8	8	6	13	11	12	3	6	8	7	8	7	6	5	4	7	6	4	3	5	7
28	4	3	2	4	4	3	3	8	17	8	7	8	11	15	26	14	5	14	7	8	5	7	10	6	8
29	13	19	25	13	9	16	38	44	31	19	35	46	22	14	13	8	11	9	10	13	6	3	7	19	18
30	12	15	6	9	11	16	9	6	10	8	31	14	22	11	10	7	7	9	14	6	6	9	14	28	12
31	17	11	13	8	11	6	6	7	11	9	5	7	12	6	6	23	17	9	8	8	6	4	8	10	10

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	7	4	15	21	30	37	0	-	57	0	-	20	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: JULY

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	8	10	3	1	4	11	1	1	7	9	7	10	5	5	5	24	13	14	23	13	6	9	6	9	9
2	3	2	0	0	1	4	9	2	5	5	10	9	4	15	10	11	12	6	17	10	2	5	2	1	6
3	0	M	2	1	6	0	2	12	14	4	5	12	5	6	10	13	10	1	6	4	6	2	2	5	6
4	3	3	5	2	2	1	9	7	3	8	13	10	8	10	12	8	8	9	6	8	4	4	4	7	6
5	1	1	2	0	4	2	8	4	5	4	7	2	6	6	20	33	19	8	4	4	2	6	5	8	7
6	3	4	1	9	1	3	4	16	9	12	10	2	7	9	0	3	13	9	8	1	6	14	9	14	7
7	4	7	6	6	7	2	8	6	11	6	10	12	14	14	9	8	15	3	7	10	5	3	12	3	8
8	1	3	1	0	4	3	0	0	2	1	0	0	1	0	0	0	0	0	0	3	7	2	0	3	1
9	5	0	0	0	0	0	1	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	2	2	2	0	0	0	0	0	0	0	0	0	2	1	0	0	4	1
11	1	12	5	26	16	36	43	40	42	41	26	27	16	16	21	32	36	20	18	7	8	19	5	15	22
12	18	12	5	5	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
13	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	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	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	0
17	0	M	0	0	0	0	0	0	6	5	2	7	2	2	3	2	3	6	10	1	0	0	0	0	2
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
19	7	1	3	M	M	M	M	M	M	M	M	M	M	M	M	M	M	1	0	0	0	0	0	1	
20	0	0	0	0	0	1	4	1	0	0	0	0	M	2	0	0	0	0	0	0	0	1	3	3	1
21	0	3	0	1	7	16	34	36	56	45	44	26	17	14	11	14	20	31	13	28	29	10	22	28	21
22	14	15	42	30	15	47	15	25	20	7	15	12	18	14	11	15	17	18	16	29	39	37	44	44	23
23	42	41	21	7	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	2	8	9	0	1	6
24	3	8	9	0	0	0	0	0	3	4	0	0	0	1	3	0	12	6	3	2	2	0	1	0	2
25	0	0	0	0	0	8	1	8	1	1	2	0	1	0	0	0	0	1	0	0	0	4	6	1	1
26	0	0	0	0	2	5	0	0	0	0	0	M	0	2	5	0	0	1	2	5	1	0	9	1	
27	8	15	12	11	12	13	13	17	9	9	4	8	4	5	7	5	6	6	6	14	12	6	4	11	9
28	7	9	7	8	6	11	6	7	9	5	8	10	11	12	15	11	6	12	9	15	14	9	10	8	9
29	12	19	22	16	15	19	23	20	14	6	13	21	13	6	6	4	7	8	9	12	5	5	11	20	13
30	13	18	7	14	13	20	11	5	12	7	16	10	20	17	12	6	12	14	13	9	7	8	12	22	12
31	14	M	10	5	7	4	11	6	10	8	9	16	11	10	10	18	20	17	12	12	7	4	9	8	10

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	3	6	3	16	22	37	42	0	-	56	0	-	23	3	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: JULY

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	0	0	0	0	0	0	0	0	0	0	0	0	17	1
2	0	0	0	0	0	0	0	0	0	0	0	0	M	4	0	0	0	0	0	0	0	0	0	0	19	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	0	9	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	22	1
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	22	1
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	2	2	2	2	2	2	25	2
7	8	5	4	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3	2	2	2	35	5
8	10	6	5	5	4	4	4	3	3	3	3	3	3	3	3	3	3	3	2	2	3	2	2	2	26	5
9	8	4	4	3	3	3	3	3	3	3	3	4	0	0	0	0	0	M	15	3	1	1	0	25	4	
10	8	3	3	2	2	1	1	2	2	2	1	1	0	0	0	0	0	1	1	0	0	0	0	20	2	
11	6	3	2	2	1	1	2	1	2	2	1	1	1	1	1	1	1	1	1	1	0	1	4	29	3	
12	7	4	2	2	1	1	2	2	2	1	1	1	1	1	0	0	0	1	1	1	1	0	1	25	2	
13	6	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	19	2	
14	5	2	2	1	1	1	1	1	1	1	1	0	1	1	1	0	0	0	1	0	0	0	0	20	2	
15	5	3	2	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	20	2	
16	5	2	2	1	1	1	1	1	1	1	2	M	M	M	6	4	2	2	1	2	1	1	1	18	3	
17	5	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	17	2
18	4	2	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	16	2	
19	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	19	2	
20	4	2	2	1	1	1	1	1	1	2	1	1	1	1	1	1	0	1	1	1	0	0	1	21	2	
21	5	3	2	2	1	1	2	2	2	2	1	1	1	1	4	1	1	1	1	1	1	1	1	21	2	
22	5	3	2	2	2	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	0	1	1	14	2	
23	4	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	2	
24	4	2	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	16	2	
25	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	25	2	
26	7	4	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	22	2	
27	5	3	2	2	1	1	1	1	1	1	1	M	0	0	1	1	1	1	1	1	1	1	1	16	2	
28	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	0	1	29	2	
29	6	3	3	2	2	2	2	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	19	2	
30	5	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	19	2	
31	5	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	54	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		
2	1	2	1	4	7	20	25	0	-	54	0	-	5	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: JULY

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	2	3	4	2	6	3	4	8	8	2	2	1	5	4	3	6	11	11	5	4	4	3	4	3	5
2	3	2	2	4	2	4	3	3	2	1	5	1	M	11	18	4	3	8	15	12	11	7	3	2	5
3	5	5	2	2	5	4	3	4	6	5	2	2	1	1	3	2	3	6	11	8	5	5	3	3	4
4	3	2	3	5	3	3	3	2	2	4	2	1	1	1	1	1	2	4	4	4	3	5	7	7	3
5	6	4	2	3	7	48	29	65	29	62	39	12	15	9	13	14	13	6	11	8	8	8	51	11	20
6	9	7	8	10	9	8	8	5	4	3	2	2	2	2	1	2	10	3	5	2	5	3	7	5	5
7	10	7	5	1	2	3	5	4	3	4	0	1	0	1	1	5	4	19	44	16	21	28	47	28	11
8	23	18	31	24	33	35	21	6	10	18	2	0	2	2	1	4	9	4	11	12	20	27	16	18	14
9	7	12	18	7	8	9	7	7	9	10	12	5	9	7	0	1	0	4	9	4	6	1	4	5	7
10	4	0	2	4	12	8	6	24	33	34	45	11	1	0	0	0	5	8	2	1	5	2	14	26	10
11	26	M	34	33	19	46	52	23	29	14	0	5	13	8	4	5	4	3	2	3	3	1	4	2	14
12	3	2	3	1	4	19	30	27	16	0	0	0	0	0	0	0	7	2	8	10	6	10	3	6	
13	3	9	8	1	1	0	3	8	1	12	39	11	5	0	2	5	2	0	5	12	10	12	15	9	7
14	14	3	1	1	7	2	2	3	0	1	0	0	0	0	0	2	2	5	4	1	9	4	5	4	3
15	6	5	3	1	1	0	1	4	1	1	0	7	0	4	5	2	7	3	2	0	3	0	3	18	3
16	9	3	2	4	6	9	10	12	8	17	14	12	19	11	17	12	8	10	5	15	8	9	9	10	10
17	12	8	6	15	16	39	31	22	27	45	15	32	38	13	7	6	7	10	27	5	3	2	4	0	16
18	2	3	4	0	5	2	1	3	2	0	2	2	5	8	6	6	1	1	4	1	0	0	2	1	3
19	0	1	2	6	20	23	15	6	6	11	6	9	4	9	1	2	5	0	0	2	3	0	1	1	6
20	1	2	6	20	10	25	28	19	18	33	25	7	6	2	0	0	0	1	3	6	8	4	9	5	10
21	3	5	3	11	30	33	34	34	27	23	16	14	9	9	17	4	5	5	2	4	5	2	6	13	
22	9	9	9	16	13	3	8	23	19	4	1	0	0	0	0	7	2	6	16	26	18	15	24	50	12
23	32	21	30	10	3	9	7	9	4	0	0	0	0	0	0	0	1	2	2	2	1	0	1	0	6
24	4	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
25	1	M	0	0	0	0	3	0	8	8	8	8	4	3	3	1	4	4	5	4	1	1	5	3	3
26	1	1	0	0	0	0	2	1	0	0	0	0	0	0	1	0	1	6	5	0	0	3	4	4	1
27	3	1	2	1	0	1	5	2	2	2	3	M	3	2	2	1	1	1	0	1	2	0	0	0	2
28	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	3	8	10	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
30	0	0	0	0	2	2	7	4	3	1	0	0	0	0	0	0	0	0	0	0	0	8	8	0	1
31	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		
5	3	7	3	18	28	36	46	0	-	65	0	-	20	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: AUGUST

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

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	8	6	2	1	1	0	2	9	9	7	16	5	19	25	14	13	10	11	11	17	14	13	4	3	9
2	1	0	0	2	1	0	1	4	5	5	3	4	3	2	2	2	7	9	8	12	27	28	8	9	6
3	3	0	1	1	1	3	8	1	5	1	0	0	2	2	1	1	7	8	13	14	19	18	9	4	5
4	2	3	0	0	1	1	2	8	9	4	1	0	0	2	1	8	24	13	17	12	25	18	31	15	8
5	11	1	0	0	0	0	0	7	10	5	6	5	1	3	6	19	17	24	14	15	14	14	11	14	8
6	19	16	8	1	4	16	24	30	25	32	23	13	9	10	15	32	27	22	20	23	16	6	8	6	17
7	0	0	3	35	18	10	2	5	13	20	17	9	11	18	24	39	20	5	7	12	8	1	5	1	12
8	0	M	0	0	0	0	1	5	13	21	19	10	0	5	4	2	1	1	1	0	0	0	0	0	4
9	0	0	0	0	0	0	1	5	6	6	5	6	3	3	3	1	2	0	0	0	3	3	10	1	2
10	0	0	0	0	0	1	0	5	10	11	13	1	3	5	6	1	4	11	14	22	3	1	0	1	5
11	0	0	0	0	0	0	0	3	5	10	9	4	3	4	2	3	3	1	0	1	1	0	0	0	2
12	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
13	0	0	0	0	0	0	1	8	11	19	5	1	0	1	2	2	2	3	2	2	1	0	0	2	3
14	0	0	0	0	0	0	2	10	17	6	1	1	1	0	3	6	0	0	0	0	0	0	0	1	2
15	0	0	0	0	0	0	1	7	9	18	12	10	6	6	7	8	12	6	3	2	0	0	0	1	5
16	0	0	0	0	0	0	0	4	8	8	8	9	12	13	12	21	17	18	12	10	7	5	8	8	8
17	6	0	0	0	0	1	3	2	11	11	25	28	29	16	17	19	24	30	10	15	25	23	8	10	13
18	7	6	3	0	8	3	2	2	3	9	7	1	2	6	8	14	19	16	40	21	26	31	26	12	11
19	7	8	4	0	1	2	11	7	22	9	9	7	10	7	8	14	19	19	12	13	28	36	15	8	12
20	8	2	0	2	1	2	4	9	20	28	38	50	48	54	45	56	67	38	24	40	13	10	17	5	24
21	11	16	4	4	5	23	40	52	54	63	66	34	41	31	30	56	41	24	27	32	8	17	9	11	29
22	2	M	10	3	4	8	8	13	26	43	34	16	24	20	11	21	16	31	31	4	1	27	23	23	17
23	2	3	3	22	41	20	9	41	26	32	18	53	27	12	5	26	35	29	16	12	14	18	6	1	20
24	0	3	5	1	0	1	2	2	4	20	26	40	44	34	33	29	36	46	27	27	12	20	10	9	18
25	8	5	18	40	36	20	27	27	31	42	50	36	30	18	28	50	54	36	44	21	16	32	15	5	29
26	7	27	45	21	36	19	31	26	20	43	20	19	19	12	29	30	45	23	17	26	18	9	4	4	23
27	6	0	1	4	21	23	13	5	20	14	44	34	25	30	26	18	22	22	8	4	1	3	0	10	15
28	9	8	4	4	4	52	16	1	13	28	10	M	15	0	8	6	13	48	2	8	4	8	11	8	12
29	0	0	0	0	0	1	1	2	0	4	M	M	0	1	0	1	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	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		
8	5	10	5	28	38	48	54	0	-	67	0	-	29	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: AUGUST

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	2	1	4	2	5	6	1	1	4	4	1	2	2	1	2	1	2	2	2	2	2
2	1	2	1	2	1	1	2	3	3	3	2	5	4	4	4	3	1	2	2	1	2	2	1	4	2
3	2	M	M	M	M	M	M	M	M	M	M	4	5	2	3	2	2	3	2	2	4	4	4	5	
4	3	2	2	1	1	1	2	3	3	3	5	5	21	14	9	5	5	3	2	2	3	2	1	5	4
5	6	7	5	6	9	13	8	4	4	5	4	3	3	4	10	17	7	5	5	3	3	3	2	4	6
6	3	2	4	4	6	7	2	3	4	3	2	2	2	1	1	1	2	4	4	3	7	7	5	6	4
7	3	2	3	2	2	3	2	4	3	2	1	1	1	2	1	1	1	2	2	2	4	2	1	2	2
8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1	1	0	1
9	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0
10	0	1	1	1	1	0	1	0	1	1	2	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	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
12	1	0	1	0	0	0	0	1	1	1	1	1	1	0	1	1	0	0	0	1	1	1	1	2	1
13	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	2	2	1	1	2	2	2	1	1	1
14	1	1	1	1	1	1	0	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
15	0	0	0	0	0	0	0	1	1	1	1	0	0	1	0	0	0	1	0	0	1	0	1	0	0
16	0	0	0	0	0	0	0	1	1	1	1	1	1	0	3	1	0	2	3	2	1	1	1	4	1
17	4	2	2	2	2	1	1	1	1	1	1	1	1	1	6	6	2	3	2	2	4	12	17	3	3
18	2	2	2	1	1	1	5	7	5	6	9	8	11	11	4	3	2	1	0	6	6	7	9	5	5
19	4	4	2	2	1	3	3	2	2	3	2	2	2	2	3	4	3	4	3	3	7	4	5	3	3
20	1	2	3	2	1	0	0	0	0	0	0	7	12	11	24	13	14	10	4	5	3	0	1	5	
21	2	3	7	3	2	1	2	3	3	2	1	2	2	13	16	15	10	10	15	15	3	2	4	4	6
22	8	4	3	3	5	9	5	3	4	21	17	17	12	4	8	7	9	6	2	0	0	0	1	0	6
23	0	0	3	3	1	1	1	1	4	8	3	0	8	8	36	18	6	14	4	6	10	1	0	0	6
24	0	1	1	5	3	4	3	3	11	23	26	50	12	10	12	20	18	9	9	14	9	7	6	6	11
25	11	21	9	5	6	5	6	9	13	32	17	39	25	16	10	17	22	12	4	8	6	2	3	6	13
26	15	8	6	12	10	6	3	3	7	20	37	12	8	6	8	10	9	4	5	6	6	7	4	1	9
27	1	4	3	3	1	1	2	2	2	3	7	3	9	8	8	4	5	2	2	2	2	2	7	4	4
28	1	1	1	1	0	1	1	0	1	1	1	1	1	0	1	0	0	1	1	1	2	3	2	4	1
29	4	5	2	1	2	2	1	2	2	2	3	4	2	1	2	6	3	2	4	3	1	3	2	6	3
30	3	3	2	3	3	3	2	2	5	4	4	4	5	3	4	3	2	2	2	3	2	1	1	3	3
31	2	2	4	2	3	1	1	2	7	3	2	7	6	3	3	2	2	3	2	3	4	4	2	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	
3	2	4	2	8	12	19	24	0	-	50	0	-	13	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

STATION : CHUNG HOM KOK ZONE SUBSTATION  
POLLUTANT : NITROGEN DIOXIDE

MONTH: AUGUST

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	5	2	9	4	12	4	3	4	0	1	2	2	1	1	4	5	8	12	12	9	10	7	6
2	1	4	1	3	2	2	9	11	5	1	0	2	3	3	4	5	3	4	5	3	11	12	7	15	5
3	12	M	M	M	M	M	M	M	M	M	M	3	5	2	3	5	8	8	9	10	17	14	9	19	
4	6	11	9	2	4	6	8	7	9	9	9	11	25	22	15	9	7	7	9	14	13	3	4	7	9
5	11	14	15	9	12	24	15	4	4	6	1	0	2	2	5	14	8	10	11	6	4	5	3	9	8
6	14	3	4	2	4	7	0	4	9	2	2	2	2	1	0	2	1	2	7	8	12	8	5	6	4
7	2	0	1	2	0	2	4	4	4	2	3	1	0	1	1	3	2	4	1	0	2	1	0	1	2
8	0	M	1	0	0	0	3	3	2	3	3	0	0	0	0	0	0	0	0	0	1	1	1	3	1
9	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	1	2	4	4	4	1	1	1
10	1	2	1	5	2	2	7	6	7	4	6	1	1	1	1	0	1	0	3	2	1	0	1	2	2
11	2	2	0	2	1	5	3	2	2	1	7	5	3	4	5	10	4	5	6	3	2	4	3	4	4
12	1	1	2	1	2	1	1	8	11	3	3	1	1	5	9	5	4	0	4	8	2	3	3	9	4
13	1	2	1	0	2	2	3	4	1	3	1	0	0	1	0	4	3	3	4	6	6	3	1	1	2
14	1	0	0	0	0	0	0	1	1	4	2	1	0	0	2	2	1	4	1	1	2	1	2	2	1
15	2	2	0	0	0	0	4	5	12	9	9	2	1	2	2	3	5	3	3	6	6	7	5	3	4
16	2	3	2	2	4	2	6	12	8	4	4	4	7	4	8	7	6	14	17	13	8	9	9	27	8
17	16	6	6	6	6	3	3	12	13	19	26	16	13	8	16	11	9	7	4	7	16	40	48	4	13
18	8	11	12	2	1	7	18	14	11	17	21	15	16	15	8	9	8	7	4	13	15	17	17	16	12
19	13	12	6	4	2	7	6	9	11	15	8	6	7	6	4	8	11	13	15	10	19	18	10	13	10
20	5	14	6	8	4	4	3	9	22	30	41	32	43	44	45	58	40	43	42	21	14	11	7	13	23
21	17	23	46	28	23	16	31	37	32	15	6	9	8	29	13	21	15	11	26	28	6	6	8	7	19
22	14	M	12	13	24	33	22	28	28	63	58	47	31	12	19	24	18	20	19	14	8	11	24	19	24
23	14	8	24	38	25	34	17	26	24	38	24	13	41	40	84	48	17	44	13	15	24	4	2	6	26
24	7	8	11	21	14	16	16	14	29	53	56	74	40	34	51	52	47	38	30	30	14	8	11	16	29
25	16	46	29	19	32	28	24	33	39	66	64	94	68	50	41	44	76	80	24	17	14	7	13	18	39
26	30	28	22	45	45	33	14	28	36	45	71	34	18	9	11	9	16	8	8	6	4	5	6	4	22
27	7	14	9	14	10	21	24	25	30	31	29	6	10	15	23	9	12	9	3	5	2	3	20	11	14
28	3	12	3	4	7	8	3	4	9	3	7	3	2	0	5	6	12	15	4	5	5	9	8	8	6
29	8	7	2	0	4	9	6	7	6	3	5	10	3	0	2	11	7	2	6	5	1	7	1	12	5
30	3	2	3	2	3	3	2	4	7	5	2	2	3	1	2	0	1	3	5	10	3	4	1	7	3
31	3	3	9	3	7	2	1	5	10	4	1	10	7	3	4	4	7	13	9	13	19	19	5	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	6	10	6	28	40	51	65	0	-	94	1	-	39	3	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  
MONTH: AUGUST

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

STATION : VICTORIA ROAD SUBSTATION  
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	6	5	1	0	2	1	4	7	3	1	5	4	6	6	1	3	4	3	3	10	6	6	6	5	4
2	0	1	0	0	0	2	1	4	4	7	1	3	2	3	4	2	2	4	7	3	6	14	4	7	3
3	2	0	1	0	0	1	7	5	8	5	0	1	3	2	1	0	5	2	6	2	6	8	7	9	3
4	8	4	2	1	3	6	3	8	8	5	1	1	4	4	4	4	10	5	7	7	6	3	7	10	5
5	8	2	1	2	2	1	5	8	16	20	15	4	1	6	15	12	8	7	3	4	4	4	3	11	7
6	11	7	9	3	5	2	10	14	17	20	13	8	4	3	11	20	27	34	19	19	16	11	6	5	12
7	2	0	0	13	23	11	13	9	13	14	11	1	7	15	22	35	39	43	36	9	10	5	5	3	14
8	0	M	0	0	0	0	0	0	2	9	7	2	0	0	0	0	2	0	0	0	0	0	0	0	1
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
10	0	0	0	0	0	1	0	1	2	1	1	0	0	0	0	0	0	2	5	2	1	0	0	0	1
11	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	0	0	0	0	0	4	0
12	2	1	1	0	1	2	2	3	4	7	2	1	2	1	3	4	7	2	2	3	3	2	2	5	3
13	4	3	2	2	2	4	7	10	8	10	7	5	6	5	8	10	8	7	7	8	7	5	4	2	6
14	0	0	0	0	0	1	5	6	6	5	2	4	3	4	4	6	4	5	3	1	1	0	2	1	3
15	0	0	0	0	0	0	1	10	7	8	7	8	4	6	8	10	8	15	11	2	0	0	2	1	5
16	0	0	0	1	7	0	1	3	6	14	11	9	12	10	12	15	8	8	10	9	7	2	3	4	6
17	1	0	0	0	0	1	0	3	11	10	13	12	15	22	20	15	12	15	12	15	15	16	10	12	10
18	4	6	6	0	2	0	5	6	2	12	8	5	1	8	7	12	12	2	12	20	15	9	11	10	7
19	7	11	4	0	4	4	0	8	14	9	8	9	6	5	4	4	5	5	6	6	24	11	11	7	7
20	4	5	2	3	2	1	8	9	17	29	32	33	38	37	47	59	53	32	39	29	12	11	5	15	22
21	22	22	28	7	13	26	25	30	47	60	64	33	33	27	19	32	31	30	32	26	18	6	10	8	27
22	1	M	8	11	10	9	10	27	38	33	40	29	28	14	16	21	23	22	23	12	24	20	17	23	20
23	16	9	16	18	14	20	16	19	25	30	26	27	27	32	37	50	33	35	30	22	23	17	10	15	24
24	9	5	3	4	2	3	9	12	28	25	31	44	47	35	37	39	41	35	24	23	14	17	15	13	21
25	13	20	17	17	26	20	21	32	34	39	45	67	61	40	33	60	53	43	34	16	16	14	11	13	31
26	25	16	22	30	25	17	22	33	31	53	27	19	12	19	17	18	22	15	13	10	6	6	5	7	20
27	3	1	2	6	5	12	14	16	23	36	35	23	20	12	11	9	13	11	7	5	3	7	5	12	12
28	12	1	1	2	0	14	21	10	29	20	15	9	8	2	12	10	7	20	4	7	6	8	15	11	10
29	5	2	1	0	0	3	2	2	2	4	9	7	6	1	2	7	8	2	6	3	3	4	9	6	4
30	3	0	1	0	0	2	3	7	9	3	2	5	3	1	2	2	6	13	14	14	7	6	7	8	5
31	1	0	1	0	1	0	1	7	6	2	2	8	5	7	8	10	13	11	15	12	5	3	4	9	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	6	10	6	26	34	43	53	0	-	67	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  
MONTH: AUGUST

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	8	5	5	2	6	2	8	9	10	4	1	1	4	2	0	3	6	4	2	4	4	3	6	7	4
2	5	9	7	3	7	4	5	2	4	3	9	11	5	6	7	1	7	8	8	5	6	8	6	9	6
3	6	2	7	9	8	12	9	4	5	1	6	11	6	5	4	5	9	4	4	4	7	4	8	5	6
4	2	5	3	5	4	3	1	7	3	5	3	4	5	16	6	10	8	5	8	4	5	3	4	9	5
5	7	5	8	3	6	3	5	16	19	31	13	13	6	14	17	19	22	17	7	10	9	6	9	6	11
6	9	1	4	0	8	13	7	6	13	34	17	16	4	1	0	0	4	15	6	4	6	2	1	13	8
7	7	2	7	21	8	7	4	15	19	29	26	10	9	22	8	19	18	34	9	6	7	6	2	1	12
8	1	2	0	0	1	0	1	1	0	1	3	1	3	0	0	3	2	2	1	1	1	1	3	2	1
9	1	0	1	0	1	0	0	1	0	0	1	2	0	0	0	1	1	0	1	0	0	0	0	2	1
10	1	2	4	2	2	5	1	3	5	2	2	2	3	4	3	1	2	3	0	1	3	4	0	3	2
11	3	5	2	4	2	3	7	1	4	2	4	2	6	2	4	3	3	5	2	6	5	3	8	0	4
12	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	0
13	4	3	4	4	4	1	4	7	2	1	3	2	11	5	4	3	2	4	4	3	3	2	1	0	3
14	0	0	0	0	1	0	0	0	0	0	0	3	1	2	0	0	0	0	1	0	0	0	0	2	0
15	0	0	1	0	0	0	0	2	0	0	1	1	0	0	0	1	1	0	2	0	0	0	0	2	0
16	1	2	1	3	3	0	1	2	2	2	0	7	5	3	3	4	2	0	1	3	4	3	2	1	2
17	2	3	3	1	1	5	2	2	4	3	1	1	4	6	7	2	4	9	1	2	6	6	2	2	3
18	1	3	6	0	1	3	3	5	4	9	5	5	5	13	7	8	2	1	4	5	1	4	1	7	4
19	9	9	4	3	6	3	1	6	6	2	1	8	5	4	8	8	8	6	8	3	6	11	12	1	6
20	0	0	0	0	0	0	0	0	0	0	0	1	7	9	10	14	15	1	0	1	0	2	0	5	3
21	2	2	6	3	3	5	1	3	1	20	56	25	19	1	7	11	24	9	14	9	6	2	8	7	10
22	3	6	9	7	7	20	7	27	24	5	21	13	12	11	9	13	10	11	2	4	0	3	3	1	10
23	1	0	0	0	1	2	4	3	7	9	5	4	8	9	11	12	5	7	5	2	10	0	2	0	4
24	0	0	0	0	0	1	0	0	2	4	9	12	19	5	6	15	23	8	2	10	6	0	2	11	6
25	15	6	8	15	13	8	7	15	16	24	31	31	23	23	18	29	16	19	7	5	2	5	3	1	14
26	1	5	12	9	1	3	4	5	2	18	14	12	4	4	9	10	17	5	2	4	4	2	0	0	6
27	0	0	0	0	1	0	1	0	1	4	13	3	16	1	1	3	1	5	0	1	0	1	1	4	2
28	2	3	1	3	3	1	3	0	3	2	4	2	3	6	2	0	1	3	0	1	0	2	3	4	2
29	0	1	2	1	0	2	1	7	1	1	4	2	1	1	1	1	1	0	0	0	6	2	0	4	2
30	3	2	4	2	4	5	5	3	6	5	3	7	2	3	3	1	3	4	4	6	3	2	6	9	4
31	2	5	4	2	4	3	1	13	3	1	5	5	4	5	4	5	3	9	5	9	7	2	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		
4	3	5	3	11	16	23	28	0	-	56	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: AUGUST

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	16	22	17	14	14	10	20	21	17	13	11	7	10	7	4	7	12	15	12	29	18	21	20	15	15
2	9	14	11	9	13	9	14	18	13	17	9	13	8	12	13	8	11	15	20	19	24	23	14	17	14
3	12	7	18	11	14	17	25	12	19	12	4	8	8	11	9	9	15	12	13	16	22	28	18	16	14
4	16	15	11	14	13	15	13	20	19	15	8	10	13	19	13	23	21	14	19	24	18	14	13	15	16
5	14	11	8	8	14	11	12	25	32	37	13	7	3	13	15	18	16	24	12	12	11	10	9	21	15
6	27	19	21	21	22	33	35	35	38	40	29	30	18	21	26	29	42	64	46	29	23	16	13	15	29
7	9	4	19	53	47	23	18	32	32	38	39	25	31	44	43	71	62	74	39	68	53	14	14	15	36
8	8	7	4	3	4	2	7	12	15	15	14	15	6	8	10	7	5	6	8	6	5	6	3	5	8
9	5	4	3	4	4	4	7	12	15	13	11	9	8	8	9	8	8	4	4	5	9	7	17	5	8
10	4	3	3	4	6	7	6	8	11	10	10	6	9	13	12	8	9	8	6	28	12	6	4	3	8
11	2	2	2	1	2	3	4	3	5	11	8	10	9	7	8	9	10	7	6	5	7	4	4	4	6
12	2	M	2	1	2	2	1	3	4	5	3	2	3	3	13	23	5	8	8	5	11	4	4	4	5
13	2	1	1	0	1	3	5	16	16	16	12	9	10	7	9	10	8	12	12	13	8	6	6	6	8
14	4	4	3	3	2	3	6	8	12	12	8	8	8	5	9	11	5	5	5	3	6	2	4	5	6
15	3	3	2	2	1	2	4	18	12	15	11	10	9	10	10	11	10	17	13	8	7	5	8	4	8
16	2	2	6	2	10	2	4	6	10	18	12	15	17	13	19	18	7	7	7	12	10	6	6	8	9
17	8	5	5	8	12	13	17	24	39	38	39	25	48	49	44	29	32	25	13	15	21	20	18	25	24
18	16	25	22	8	11	11	20	24	15	27	25	12	9	18	17	21	14	16	22	27	15	13	16	14	17
19	15	22	10	6	15	12	9	24	28	27	21	21	21	15	11	12	13	19	10	13	39	33	20	15	18
20	13	13	13	15	8	13	13	16	33	55	65	61	68	63	67	74	76	55	55	34	18	30	24	19	38
21	30	66	71	25	49	64	71	63	70	89	103	50	40	37	24	43	52	48	50	30	17	12	16	13	47
22	17	32	30	27	34	34	56	76	75	52	57	41	38	20	27	40	39	32	36	18	36	39	35	39	39
23	27	20	25	42	27	47	38	38	39	52	47	49	49	49	48	58	39	55	46	28	32	13	14	18	38
24	23	32	15	12	8	11	21	34	43	42	55	74	71	55	62	65	87	42	32	34	19	31	21	22	38
25	33	26	32	31	46	28	43	54	53	62	72	73	73	51	59	94	64	51	42	18	19	17	19	29	45
26	18	M	74	45	45	31	57	57	63	35	28	20	28	22	22	21	19	21	25	9	20	9	14	32	
27	9	7	15	16	30	33	33	34	35	58	58	38	35	20	21	17	12	25	16	12	9	31	9	28	25
28	23	7	13	30	4	15	28	16	31	37	22	12	11	5	41	20	21	37	13	10	8	10	16	19	19
29	8	6	3	1	3	10	12	18	12	12	14	15	7	5	9	13	12	7	12	7	6	9	14	12	9
30	10	5	7	5	6	9	8	15	19	10	8	9	8	8	11	10	12	19	26	24	11	12	17	18	12
31	5	6	7	7	8	3	5	13	19	11	12	12	14	15	18	20	18	25	24	26	13	8	10	17	13

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		
14	14	20	14	46	58	71	74	0	-	103	5	-	47	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: AUGUST

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	20	19	7	3	13	5	19	13	8	8	2	6	33	9	3	12	6	3	8	11	7	8	12	6	10
2	3	8	4	4	7	4	4	13	7	8	4	15	7	13	8	8	4	6	6	3	13	15	5	16	8
3	11	6	11	10	7	7	13	4	4	6	6	5	12	8	10	4	13	7	3	5	7	13	6	8	8
4	10	12	16	7	5	5	7	16	11	11	19	13	21	36	18	14	13	6	11	12	10	4	24	32	14
5	23	13	12	15	22	28	7	13	35	29	12	22	20	22	21	35	16	16	11	9	8	7	4	12	17
6	14	16	9	10	20	20	11	17	21	12	9	4	3	2	5	2	3	9	13	11	14	14	12	9	11
7	6	4	3	4	6	4	4	3	13	21	3	1	1	1	7	16	20	37	5	2	2	4	2	3	7
8	2	2	1	1	1	0	1	2	2	2	1	2	1	1	1	1	2	1	1	1	2	2	2	1	1
9	2	1	1	1	2	1	2	2	1	2	1	1	1	2	1	1	1	1	0	1	1	2	2	1	1
10	1	2	2	7	4	3	3	2	4	3	4	1	1	0	0	0	0	0	0	0	0	0	0	0	2
11	0	1	1	2	2	3	2	2	1	0	2	2	1	1	1	1	2	2	2	1	1	2	1	3	2
12	1	1	1	1	1	1	1	2	4	3	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1
13	1	1	2	1	1	1	1	2	1	0	1	1	1	1	2	2	3	1	0	1	1	2	1	1	1
14	0	0	0	0	0	1	0	1	0	0	1	1	1	0	1	1	0	0	0	0	0	0	0	2	0
15	0	1	0	1	1	1	1	4	3	3	1	2	0	2	4	2	0	4	2	0	0	1	2	2	2
16	2	2	4	5	7	2	3	3	5	5	6	5	5	2	12	4	2	5	8	6	4	2	2	5	4
17	5	4	4	3	2	6	3	7	6	3	5	3	2	20	11	14	16	13	6	5	32	48	22	8	10
18	13	14	8	2	3	8	13	13	22	19	27	16	34	26	9	9	3	2	21	16	4	15	23	11	14
19	11	21	6	8	6	7	4	10	6	12	11	14	5	11	8	9	12	10	8	11	23	13	28	7	11
20	4	9	8	9	5	4	1	2	4	9	7	36	23	28	31	49	30	20	20	14	7	3	0	11	14
21	7	24	9	5	4	4	4	4	15	53	37	15	16	11	12	32	15	52	32	19	6	14	9	31	18
22	7	12	6	8	18	18	13	8	14	33	20	26	17	10	16	19	27	8	4	0	0	5	3	2	12
23	3	1	9	4	3	3	6	7	8	16	5	7	17	19	37	32	13	32	11	17	17	3	1	4	11
24	8	12	5	16	9	8	8	8	31	20	28	33	31	16	18	29	36	31	25	23	17	11	10	14	19
25	33	42	13	14	17	10	11	17	34	35	32	39	41	31	18	20	19	18	16	15	7	5	8	19	21
26	24	29	16	16	10	9	7	22	44	59	28	23	10	24	25	26	19	12	9	13	11	9	4	2	19
27	5	5	8	6	4	5	3	4	14	21	31	11	31	12	8	9	12	7	5	7	8	8	6	6	10
28	5	2	9	1	2	4	3	5	9	6	5	4	4	2	5	2	3	7	5	6	10	17	12	7	6
29	4	7	2	2	6	19	11	3	1	4	9	M	11	2	6	13	5	2	13	4	3	5	7	5	6
30	4	5	6	5	4	7	4	7	11	4	4	7	5	4	6	3	3	3	18	9	3	4	9	14	6
31	3	17	5	8	9	1	3	7	12	2	9	14	12	17	6	3	11	8	12	9	6	7	5	8	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		
6	6	9	6	21	31	35	40	0	-	59	0	-	21	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: AUGUST

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	15	16	6	3	10	5	14	12	7	6	13	11	24	7	15	21	19	15	15	24	13	18	20	9	13
2	1	6	2	3	6	3	7	17	15	17	9	19	11	18	14	14	13	12	11	6	20	17	6	15	11
3	11	3	12	8	6	5	14	5	6	9	6	7	10	11	13	10	16	9	6	11	13	22	11	12	10
4	10	9	16	4	5	6	7	11	14	22	23	12	15	29	23	16	16	11	16	20	11	1	23	31	15
5	21	13	9	14	22	31	13	12	25	16	4	5	8	10	11	16	5	12	2	9	2	3	1	10	11
6	17	12	6	15	23	19	16	21	21	10	9	2	0	1	16	0	1	4	11	12	11	5	3	11	10
7	6	3	4	10	28	5	6	16	8	14	M	0	0	6	61	69	75	68	8	3	11	13	17	3	19
8	6	9	4	2	3	2	10	9	4	6	8	4	2	3	3	1	0	0	0	0	0	0	0	0	3
9	0	0	0	0	0	0	1	1	1	3	2	0	0	1	3	M	M	M	M	M	M	M	M	M	M
10	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	0	0	8	6	15	1	0	0	1	
11	1	1	1	1	1	1	5	8	5	14	5	4	1	3	3	5	5	3	2	1	0	1	0	3	3
12	2	1	1	1	3	1	0	3	7	4	2	1	2	1	3	5	2	2	2	4	4	2	3	4	3
13	3	2	4	3	6	5	14	14	9	7	7	4	3	3	5	5	4	5	3	4	3	3	2	3	5
14	3	M	2	1	4	7	12	11	10	4	2	3	2	2	6	3	2	3	2	2	2	2	3	3	4
15	2	2	0	1	1	1	2	9	7	10	2	4	2	3	3	3	4	5	5	3	3	5	6	4	4
16	3	3	5	9	14	4	5	5	7	7	4	3	7	3	15	9	10	10	20	13	10	6	8	14	8
17	12	7	8	7	3	29	25	41	34	30	52	49	33	51	36	17	32	34	21	18	34	50	37	14	28
18	16	23	17	3	11	19	22	17	32	30	33	22	29	25	29	25	22	19	29	31	6	22	36	19	22
19	17	24	7	14	10	9	10	27	20	31	20	22	17	22	20	17	23	22	17	19	36	18	36	13	20
20	8	16	16	15	10	9	13	14	38	72	76	71	46	63	71	71	55	50	58	29	16	18	12	47	37
21	42	79	74	49	48	54	54	61	67	74	45	28	32	30	20	52	24	40	43	31	14	20	16	43	43
22	11	22	24	32	54	30	30	35	79	94	79	71	56	37	50	69	54	44	36	19	17	27	27	41	43
23	20	12	45	31	21	22	26	28	30	51	23	41	48	75	104	89	47	79	28	36	25	16	6	14	38
24	21	28	22	36	16	15	18	14	70	62	66	77	76	87	93	132	96	70	63	49	24	16	22	23	50
25	37	82	34	29	43	26	36	43	63	75	84	94	87	81	68	80	116	84	41	34	18	20	18	31	55
26	41	67	55	47	30	36	43	70	71	85	53	37	18	23	24	20	23	17	13	11	6	9	9	18	34
27	17	12	17	18	17	35	23	41	63	67	46	24	33	18	26	21	25	19	8	11	16	12	9	10	25
28	14	M	13	10	7	13	16	42	28	12	8	17	12	31	31	32	40	22	20	17	14	20	21	11	20
29	7	7	2	3	9	16	11	7	8	6	19	M	17	2	7	16	9	3	11	7	5	7	7	7	8
30	8	6	7	6	5	7	5	10	15	6	9	8	5	4	8	6	12	12	30	10	4	9	9	15	9
31	2	13	4	8	9	1	3	7	10	2	11	19	13	14	7	3	11	13	21	15	10	14	8	16	10

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		
11	12	19	12	48	70	81	89	0	-	132	3	-	55	3	96	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: AUGUST

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

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	2	3	2	4	6	17	20	0	-	29	2	-	4	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: AUGUST

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	0	1	0	0	2	0	1	1	5	4	7	17	1	0	0	0	0	0	0	0	0	0	2	0	2
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	8	16	42	28	4
4	12	0	0	0	0	1	2	1	22	21	18	0	1	0	0	1	0	2	5	0	0	14	10	5	5
5	1	1	1	3	24	13	26	22	7	2	15	11	4	3	0	2	0	0	0	0	0	0	0	0	6
6	0	2	1	2	10	17	21	29	22	22	11	3	0	2	26	38	13	5	0	0	0	0	5	27	11
7	50	47	35	21	21	33	10	11	21	24	14	0	7	16	13	37	42	13	20	64	73	80	69	60	33
8	78	M	99	59	37	20	36	41	35	43	34	5	9	4	2	0	0	0	0	0	0	0	0	0	22
9	0	0	0	3	7	6	8	6	2	2	4	6	4	5	3	11	4	0	0	3	6	8	17	0	4
10	0	0	1	0	0	0	3	3	0	3	1	2	0	2	9	4	2	1	12	18	39	11	7	7	5
11	15	7	5	8	11	1	2	1	20	24	55	17	13	9	10	5	12	7	7	8	5	5	8	4	11
12	8	3	10	4	9	10	9	11	6	6	5	7	3	4	12	10	13	11	18	9	18	11	9	13	9
13	11	6	15	10	25	35	13	42	39	20	10	7	4	4	3	5	6	24	11	8	6	12	10	9	14
14	26	29	24	10	37	41	34	46	31	15	16	12	8	9	13	5	3	5	5	5	5	9	9	5	17
15	4	3	3	3	2	2	4	3	5	8	5	4	4	11	4	4	5	4	5	5	7	11	15	14	6
16	5	6	4	5	7	12	5	6	5	4	4	3	4	4	4	4	3	10	8	7	6	21	26	43	9
17	18	21	8	7	18	39	49	20	24	40	29	44	62	61	27	29	21	21	21	39	56	55	62	13	33
18	15	13	8	3	3	6	10	16	16	4	9	10	12	12	16	4	4	4	12	10	9	15	36	33	12
19	5	3	2	3	6	4	6	5	6	12	8	10	10	7	8	8	12	6	9	11	8	10	8	11	7
20	12	5	8	5	5	4	6	8	18	23	33	35	36	43	33	44	31	34	24	12	22	22	35	48	23
21	55	42	24	21	66	97	93	78	67	51	41	26	20	17	14	29	14	11	15	10	12	10	8	18	35
22	35	M	45	54	62	58	42	63	66	54	30	17	14	19	20	25	22	37	46	31	24	19	32	54	38
23	32	32	29	42	30	27	31	34	28	36	45	66	30	24	19	23	34	25	13	15	19	67	44	15	32
24	18	12	33	30	18	26	44	60	63	53	33	29	18	25	37	36	41	31	41	16	17	19	27	46	32
25	40	26	22	23	31	32	38	54	45	55	53	58	51	40	43	44	90	60	22	13	31	51	44	24	41
26	48	33	74	73	47	51	70	69	53	48	60	51	23	19	16	16	17	13	24	43	44	12	12	19	39
27	11	11	27	20	18	27	37	29	34	28	18	12	29	18	12	8	6	5	4	3	7	4	2	5	16
28	12	11	2	11	10	22	36	49	14	58	24	34	5	3	12	16	33	7	4	10	9	9	3	2	17
29	3	3	2	3	5	5	6	7	4	3	3	2	1	1	3	4	4	6	4	5	8	6	6	5	4
30	4	6	2	3	2	2	3	3	3	3	1	1	1	1	2	3	1	2	4	5	4	2	2	4	3
31	4	2	3	2	2	3	3	5	5	2	5	2	0	2	2	4	5	5	7	10	7	6	6	6	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	
11	8	16	8	43	55	66	74	0	-	99	0	-	41	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: SEPTEMBER

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	1	1	1	1	1	2	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	0	1	3	2	2	1	1	0	0	0	0	0	0	0	1	6	7	17	16	10	5	1	0	1	3
3	9	6	2	5	7	5	4	2	4	5	4	5	7	10	15	12	6	7	4	12	8	8	10	5	7
4	9	8	6	12	7	3	3	2	1	2	12	10	6	3	6	6	4	3	1	3	3	5	8	7	5
5	8	7	8	3	2	4	6	13	11	24	9	10	23	16	6	3	6	5	3	1	6	15	13	2	9
6	2	1	2	1	1	1	1	1	2	2	2	3	3	2	3	2	4	7	3	3	4	8	12	11	3
7	5	5	6	5	3	3	3	2	1	3	2	2	3	9	10	7	3	7	6	8	4	5	6	27	6
8	4	6	6	8	6	4	1	0	0	0	0	1	2	0	0	0	1	16	12	1	0	0	0	1	3
9	2	1	1	1	1	1	1	1	2	2	2	2	1	1	2	1	1	3	3	1	1	0	0	0	1
10	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	2	5	5	4	4	4	1
11	5	11	14	10	9	5	4	3	4	5	22	30	14	9	12	7	5	9	23	11	3	3	2	9	10
12	3	1	1	1	1	1	1	1	0	1	M	M	0	1	1	1	2	2	2	2	2	2	2	2	1
13	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2	2	2	2	3	3	3	3	2
14	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
15	3	3	3	3	4	4	4	4	4	4	3	4	3	3	3	3	2	3	3	3	3	3	3	3	1
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	2
17	2	2	2	2	2	2	3	3	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	2
18	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	1	1	1	1	1	0	1	0	1	2
19	1	1	0	0	1	1	0	1	38	41	17	14	15	14	16	16	8	9	5	9	13	11	16	14	11
20	20	25	30	33	23	20	25	38	18	28	16	18	24	12	14	10	11	8	4	8	9	9	7	9	17
21	13	24	22	17	11	8	9	9	9	32	22	20	16	11	8	5	9	9	8	16	13	12	10	8	13
22	9	7	7	9	9	7	7	4	4	4	4	3	4	3	1	1	3	6	4	7	7	5	4	1	5
23	1	1	1	2	1	2	1	1	3	5	2	3	3	7	8	13	5	3	5	4	4	4	6	7	4
24	8	7	6	7	5	5	5	6	11	13	2	1	2	4	3	3	3	2	2	1	2	2	0	0	4
25	1	1	0	0	1	0	0	1	1	1	2	1	0	1	1	1	2	2	2	3	1	2	1	2	1
26	1	2	1	1	1	1	1	1	1	2	4	4	4	4	5	7	5	4	4	4	4	7	8	7	3
27	8	8	11	12	13	9	8	6	5	6	4	5	5	2	3	3	6	9	7	7	9	7	6	5	7
28	6	5	7	6	6	6	4	3	3	3	9	22	11	13	7	8	7	3	4	2	2	2	2	2	6
29	1	1	0	1	1	1	2	2	2	2	2	2	8	17	10	8	9	11	5	6	1	1	1	2	4
30	2	3	3	2	2	2	2	2	2	1	1	1	1	2	2	1	1	1	1	3	4	3	4	5	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		
4	3	5	3	11	16	23	28	0	-	41	0	-	17	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: SEPTEMBER

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	0	2	3	5	6	9	6	2	3	4	19	13	7	11	14	19	10	10	0	8	5	7	
2	4	9	15	8	7	5	6	3	1	1	1	3	2	4	4	8	9	28	34	23	5	1	0	3	8	
3	13	14	4	7	6	2	1	4	7	11	7	5	10	5	4	8	10	15	14	23	18	15	25	12	10	
4	21	17	12	21	21	12	14	7	1	6	15	11	10	8	9	9	8	8	4	12	13	13	20	14	12	
5	17	M	18	6	8	9	13	19	12	21	16	14	30	24	14	10	17	23	16	21	19	25	17	9	16	
6	6	5	2	0	1	0	1	7	9	6	6	3	2	2	1	2	4	9	5	1	7	9	11	6	4	
7	3	6	6	2	0	0	1	4	4	1	0	0	2	10	6	4	6	12	10	14	16	35	43	60	10	
8	35	49	56	48	43	31	17	10	3	7	6	7	17	17	15	28	60	107	92	25	10	13	11	6	30	
9	7	5	3	3	3	2	2	4	8	7	5	3	4	3	3	8	7	9	9	4	1	0	0	1	4	
10	0	1	2	1	1	1	2	5	4	3	1	3	1	4	3	17	55	30	38	44	50	34	47	57	17	
11	76	94	98	59	51	27	22	19	28	42	66	62	42	32	23	25	26	37	53	42	31	24	27	19	43	
12	4	1	2	3	3	4	4	6	5	3	M	M	0	0	0	0	0	0	0	0	0	0	0	2	2	
13	2	1	1	1	0	1	0	2	1	1	1	0	1	1	1	2	4	4	3	2	6	5	6	4	2	
14	3	4	2	4	3	4	5	5	6	6	7	6	7	11	38	40	50	42	29	32	22	12	12	7	15	
15	8	6	11	24	49	57	46	37	23	14	11	8	7	7	8	9	11	10	9	8	8	7	6	5	16	
16	5	4	3	3	3	4	3	3	3	2	2	2	2	2	2	2	2	2	2	1	1	1	1	2	2	
17	1	2	1	1	1	1	1	2	2	2	4	3	3	7	8	7	9	8	7	9	6	7	9	6	4	4
18	5	5	6	6	4	6	8	10	7	9	4	3	3	5	4	4	4	6	9	7	4	3	2	5	5	
19	5	M	2	2	13	16	10	10	37	45	29	26	22	23	33	41	27	39	35	38	41	36	36	25	26	
20	32	40	45	58	45	35	38	38	20	25	22	22	29	20	17	15	17	20	18	32	24	24	19	18	28	
21	23	43	43	34	21	20	20	17	13	26	21	20	14	11	11	9	14	15	15	28	28	29	22	16	21	
22	14	10	19	22	22	14	13	10	8	8	7	6	6	6	5	6	9	20	18	18	18	12	11	9	12	
23	8	6	8	11	9	11	9	8	6	8	7	6	7	9	11	15	15	15	16	18	14	10	15	25	11	
24	25	20	20	20	15	17	15	13	14	33	15	11	13	11	10	10	13	12	15	12	12	7	5	5	14	
25	8	6	5	4	6	6	5	9	8	8	9	8	6	8	8	10	18	18	22	18	9	13	11	9	10	
26	8	6	6	5	5	6	8	16	14	12	14	15	10	12	13	21	21	20	18	15	16	20	17	16	13	
27	15	15	16	18	25	18	15	18	21	18	13	13	12	9	9	9	15	23	21	20	18	15	15	12	16	
28	13	10	13	9	10	11	20	22	17	41	53	56	45	48	57	67	54	28	41	42	37	32	23	24	32	
29	24	14	14	12	11	11	13	14	14	15	22	22	36	38	24	24	26	33	25	26	17	14	13	13	20	
30	11	10	9	9	8	8	8	9	12	9	9	9	8	8	11	9	11	13	12	13	11	9	10	10	10	

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	14	9	33	43	57	62	0	-	107	2	-	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: SEPTEMBER

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

STATION : VICTORIA ROAD SUBSTATION  
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	5	2	1	0	1	2	4	7	9	7	3	7	8	5	8	9	8	9	9	8	8	6	16	6
2	11	9	10	9	11	11	13	14	12	10	13	17	20	18	20	13	12	17	14	21	18	13	19	18	14
3	19	11	6	12	12	7	9	14	15	9	18	13	16	9	10	11	8	9	17	19	13	16	14	11	12
4	14	9	7	8	7	5	9	7	9	9	16	18	14	10	19	16	12	15	17	18	14	15	8	17	12
5	13	M	14	7	7	9	17	18	18	24	28	25	23	18	15	15	12	15	16	41	41	28	19	15	19
6	13	17	10	10	12	9	17	21	14	10	7	8	8	6	8	7	10	15	15	14	24	18	16	12	13
7	7	7	6	2	1	4	9	23	25	34	12	8	7	7	5	7	8	20	28	22	31	34	40	40	16
8	38	44	31	27	24	20	20	21	17	16	22	35	22	20	19	18	44	52	41	36	33	30	21	23	28
9	22	23	15	8	7	20	9	15	18	22	22	15	18	30	24	36	41	19	12	7	4	5	4	9	17
10	6	6	6	5	5	6	11	17	14	12	M	13	16	27	36	50	53	46	48	36	25	24	29	31	23
11	30	30	28	29	42	52	34	28	38	38	42	38	30	33	34	36	39	47	39	39	27	26	30	28	35
12	18	18	14	19	14	12	17	16	16	17	16	16	14	11	9	9	9	8	7	6	6	5	4	6	12
13	5	5	4	4	3	4	5	7	8	7	8	7	7	7	7	7	8	9	8	7	6	6	5	9	6
14	6	5	5	4	3	5	8	10	10	12	16	33	33	41	24	23	20	25	31	38	26	20	15	15	18
15	23	33	32	25	36	26	28	31	31	33	24	14	12	11	10	13	14	16	14	15	11	7	4	9	20
16	7	5	4	3	3	3	3	3	3	2	2	2	2	3	2	3	3	3	3	3	3	3	3	4	3
17	4	3	3	3	3	3	4	4	5	6	6	8	6	6	7	6	8	8	7	6	6	7	7	5	5
18	4	4	4	4	4	3	4	8	7	6	7	8	5	5	7	8	11	9	9	7	6	6	9	22	7
19	11	M	16	23	10	9	21	25	24	29	33	32	39	32	34	36	24	15	23	43	48	51	48	31	29
20	28	33	33	21	17	22	30	20	19	28	19	23	19	26	24	25	16	15	16	19	18	22	19	24	22
21	23	21	20	13	10	9	10	16	24	23	23	16	17	11	18	30	24	23	17	29	22	27	27	24	20
22	23	19	16	12	8	7	10	18	26	20	21	31	26	19	20	14	23	29	25	14	14	14	10	10	18
23	9	5	3	4	7	7	7	7	6	10	8	16	22	27	27	23	15	14	15	15	19	26	23	17	14
24	17	15	15	15	16	16	18	18	22	24	18	20	33	22	15	16	14	11	10	8	7	8	10	6	16
25	5	5	4	3	3	4	8	9	8	7	7	7	7	7	9	8	8	14	12	8	8	7	8	9	7
26	7	6	6	6	6	6	13	23	30	21	19	18	15	16	21	22	24	13	14	23	29	23	19	23	17
27	16	16	10	12	12	14	27	29	36	20	20	19	17	19	20	17	24	34	28	32	25	25	27	21	22
28	22	23	9	20	14	18	27	30	33	35	38	27	22	30	29	29	35	40	43	41	42	32	28	24	29
29	18	12	12	10	10	9	11	16	14	18	18	26	21	32	30	30	25	43	53	29	24	22	21	15	22
30	16	11	10	8	8	9	13	19	16	17	16	12	12	14	10	11	12	20	15	16	13	14	15	9	13

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		
13	15	16	15	31	38	43	48	0	-	53	3	-	35	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: SEPTEMBER

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	3	2	6	3	1	4	5	3	5	9	5	2	2	2	1	1	1	1	2	1	2	2	1	2	3
2	0	3	1	7	5	3	6	12	6	2	3	1	7	12	14	7	13	18	10	6	16	7	11	5	7
3	5	6	4	0	6	8	3	8	4	3	10	10	16	7	17	8	2	4	8	5	5	5	6	7	7
4	7	11	4	9	4	5	6	2	11	6	10	21	11	4	13	12	3	14	7	7	6	7	5	2	8
5	2	2	5	0	3	3	2	9	5	4	16	16	12	5	5	2	6	4	5	1	1	1	2	10	5
6	9	7	8	6	8	5	7	3	5	8	13	12	13	4	16	16	8	5	11	9	20	17	10	3	9
7	5	13	12	3	3	1	3	2	13	49	14	10	15	8	3	3	8	26	20	6	8	24	14	1	11
8	9	6	3	1	4	2	2	0	0	0	0	3	2	0	0	0	11	6	6	2	4	0	0	10	3
9	14	8	13	11	10	12	12	12	12	10	14	9	13	27	27	33	33	26	18	18	14	24	18	2	16
10	0	3	13	0	0	0	0	0	0	0	0	1	1	0	1	6	1	2	0	1	2	0	0	26	2
11	24	35	20	29	20	10	18	16	11	1	5	16	9	9	13	13	11	17	9	5	6	1	3	10	13
12	9	2	3	4	3	2	2	2	1	3	1	3	0	1	1	1	3	1	2	3	1	1	3	0	2
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	4	0
14	2	0	1	5	2	1	4	2	2	0	12	15	22	41	7	15	13	14	22	16	15	4	7	4	9
15	9	15	19	22	24	10	10	5	4	5	4	0	0	0	0	0	0	4	2	1	0	2	4	4	6
16	2	2	1	2	1	4	2	1	2	0	2	3	1	4	2	1	3	1	2	1	2	1	2	0	2
17	0	0	0	0	0	0	0	0	1	M	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
18	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	3	0
19	1	0	0	0	0	0	0	0	8	9	25	13	9	4	6	11	7	4	9	6	12	11	16	13	7
20	7	14	13	11	4	12	17	17	23	19	6	40	7	6	3	7	1	9	3	5	1	3	1	2	10
21	3	10	3	1	1	3	1	1	14	15	12	11	4	1	8	8	6	3	3	5	6	2	8	3	6
22	4	5	2	3	0	1	1	20	33	27	13	52	17	14	6	7	10	5	3	1	3	1	3	2	10
23	1	0	0	0	0	0	0	0	0	1	0	3	26	11	14	17	4	0	1	2	8	8	4	3	4
24	0	1	2	1	4	22	16	0	0	2	0	0	11	10	4	5	0	1	0	0	0	1	0	0	3
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	1	0	0	0
26	0	0	0	1	0	1	0	0	1	1	3	2	4	8	5	5	3	0	2	6	3	8	3	2	2
27	1	4	2	2	1	3	3	6	10	5	3	2	2	6	12	11	13	12	14	13	9	2	0	6	6
28	6	17	10	13	16	15	10	13	3	12	13	8	5	8	10	11	7	6	4	5	4	7	7	5	9
29	5	5	6	5	5	8	5	7	7	0	3	2	0	2	14	18	13	15	17	2	0	1	1	2	6
30	2	4	2	3	3	4	5	6	3	1	3	2	0	3	2	2	1	1	1	2	2	5	9	11	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		
5	3	6	3	14	18	26	32	0	-	52	0	-	16	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: SEPTEMBER

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	15	13	8	8	10	10	16	20	23	19	6	27	24	10	18	17	19	16	21	34	24	7	19	17
2	17	7	13	19	14	14	20	26	15	14	27	35	37	24	23	14	21	35	22	26	26	43	43	28	23
3	15	3	2	15	32	12	13	30	28	14	22	15	25	18	18	14	8	16	31	30	21	21	29	22	19
4	25	25	15	19	15	16	20	14	17	23	27	27	24	14	21	19	14	33	29	31	21	28	18	21	22
5	24	19	21	14	19	16	19	29	20	29	35	32	30	24	20	20	22	28	27	51	54	23	15	17	25
6	12	12	8	8	9	7	7	27	32	16	9	7	14	7	8	6	17	13	17	19	25	21	18	16	14
7	6	14	11	3	5	11	16	27	52	57	13	10	17	15	10	12	15	44	48	38	44	51	73	83	28
8	84	83	59	49	44	40	40	32	32	40	43	43	33	39	38	44	82	84	73	70	55	45	30	38	51
9	28	17	19	17	13	14	29	30	32	43	36	25	22	30	38	44	53	35	35	11	13	7	8	8	25
10	6	7	4	4	4	7	11	20	27	18	12	15	25	40	66	85	83	61	64	40	37	33	59	111	35
11	111	108	98	93	105	112	82	78	72	79	65	61	48	51	51	56	58	71	83	101	61	55	49	31	74
12	20	19	11	17	23	16	24	26	20	20	21	20	17	9	10	13	16	15	12	6	6	5	5	6	15
13	4	4	3	2	2	3	7	10	12	12	16	9	5	7	8	10	9	9	6	4	2	4	11	11	7
14	9	7	7	6	5	4	9	19	21	23	29	43	40	56	27	31	38	35	59	41	29	18	12	17	24
15	48	72	81	82	74	50	57	53	52	51	41	26	21	22	22	26	27	30	35	29	26	15	12	14	40
16	9	6	4	4	3	3	3	3	3	1	0	0	1	1	1	1	1	1	0	0	0	0	0	2	2
17	1	1	0	0	0	0	0	1	1	M	3	3	2	3	4	3	5	5	5	4	5	5	5	3	3
18	1	2	1	3	2	1	2	6	3	4	2	M	M	M	M	M	M	M	M	M	M	M	M	M	22
19	11	22	9	16	6	4	36	32	41	38	40	33	30	23	37	36	29	20	36	45	60	51	57	38	31
20	32	30	34	24	17	21	36	31	25	31	19	28	17	20	14	18	14	20	24	22	17	20	16	19	23
21	28	23	24	19	10	13	19	27	22	26	17	19	18	13	20	18	19	19	27	40	36	30	25	27	22
22	34	48	54	22	5	10	20	34	39	35	27	32	25	15	13	8	25	28	25	13	12	12	14	7	23
23	8	5	2	4	11	8	2	3	7	9	5	10	18	18	15	15	15	12	13	24	34	40	36	31	14
24	25	20	27	26	23	29	32	27	35	28	33	39	50	31	12	12	8	7	7	9	3	6	11	5	21
25	2	1	3	5	1	5	3	11	6	3	3	2	1	3	3	3	8	6	7	6	4	5	4	4	
26	1	1	1	1	0	0	5	16	36	20	18	17	13	12	24	16	20	11	16	12	24	18	26	13	13
27	10	9	8	8	10	7	18	34	50	23	26	9	13	16	22	21	27	34	33	29	19	14	13	16	20
28	12	29	10	19	23	29	32	45	58	54	47	29	28	37	35	41	48	61	48	54	52	45	45	43	39
29	32	22	22	18	17	16	24	37	40	42	37	31	26	27	32	35	31	55	63	37	32	31	35	33	32
30	26	19	16	13	11	13	17	22	31	33	22	13	13	12	11	11	14	15	16	22	28	26	22	7	18

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
16	19	23	19	48	61	83	93	0	-	112	2	-	74	3	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  
MONTH: SEPTEMBER

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	9	6	6	5	4	6	9	6	8	41	3	0	5	6	2	1	11	4	1	0	0	0	0	1	6
2	1	2	8	6	4	3	5	3	1	1	10	5	14	18	23	20	27	33	15	17	13	9	6	11	11
3	63	15	4	5	12	12	4	10	18	5	17	18	17	14	36	13	13	9	10	21	9	13	12	14	15
4	24	11	13	17	8	7	7	6	6	8	11	18	10	7	31	15	9	12	7	15	8	13	9	15	12
5	10	13	6	7	7	10	19	21	22	67	56	31	38	19	13	12	11	12	39	7	11	14	10	23	20
6	14	14	10	11	8	6	5	5	4	6	6	5	6	6	8	8	8	10	12	11	25	20	25	22	11
7	17	11	11	9	10	6	7	17	56	33	27	20	14	14	11	9	10	21	25	16	11	27	25	32	18
8	14	16	9	8	9	15	10	5	2	2	28	24	1	1	0	7	11	16	8	6	4	15	15	3	10
9	3	4	2	6	4	2	2	2	2	4	4	4	1	2	5	4	2	2	4	2	1	0	0	1	3
10	1	1	1	1	1	1	2	2	3	2	2	2	1	1	3	12	5	7	31	16	11	13	19	11	6
11	11	12	10	11	21	15	10	10	10	12	35	32	11	14	9	12	12	17	11	12	8	4	65	11	16
12	5	2	2	2	5	3	1	2	1	1	0	0	0	0	0	1	1	0	0	1	1	0	22	1	2
13	1	1	0	1	0	0	1	0	1	0	0	0	1	1	1	0	1	1	0	0	1	1	1	2	1
14	2	3	1	2	2	2	2	3	3	3	3	3	14	44	28	30	19	18	18	64	29	12	10	12	14
15	11	18	25	20	17	12	11	13	11	6	4	3	2	2	2	2	3	3	3	2	3	3	3	2	8
16	2	2	2	2	2	1	2	2	2	3	3	4	4	4	4	3	3	2	2	1	1	1	0	2	
17	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	1	2	1	1	2	1	1	1	2	1
18	2	1	2	3	2	1	1	3	3	3	2	1	0	2	2	1	2	2	2	3	2	1	1	2	2
19	2	2	10	20	7	3	17	105	61	83	75	46	83	42	23	24	14	11	29	35	42	57	48	37	37
20	52	54	52	30	23	42	70	38	70	45	20	74	58	36	27	17	11	14	18	16	18	17	13	28	35
21	28	48	55	37	17	18	20	19	60	34	38	20	25	15	12	31	22	11	8	27	23	26	12	13	26
22	15	19	14	17	14	8	19	49	31	35	79	41	26	29	12	18	15	10	10	15	13	10	6	22	
23	4	3	3	5	6	5	5	4	5	7	6	8	14	31	23	33	15	8	15	9	24	14	11	10	11
24	10	11	8	9	8	18	27	9	9	8	1	5	14	6	16	8	4	5	2	2	M	M	M	M	9
25	M	M	M	M	M	2	1	2	3	3	4	2	2	2	3	2	2	5	5	5	6	4	5	1	3
26	2	2	2	1	1	1	2	2	2	2	3	8	7	18	27	M	M	1	1	4	10	9	5	23	6
27	13	24	17	22	14	14	17	16	14	10	8	7	8	6	11	17	20	30	23	25	17	17	14	13	16
28	16	15	12	12	26	10	18	10	18	24	18	12	8	8	11	9	11	18	6	7	7	6	3	4	12
29	3	3	2	2	2	3	4	5	5	6	5	12	10	28	14	16	14	29	38	23	7	3	3	6	10
30	5	6	6	6	5	5	5	5	5	7	4	3	10	4	5	4	4	3	3	5	8	11	7	7	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		
7	7	12	7	27	38	58	70	0	-	105	1	-	37	3	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  
MONTH: SEPTEMBER

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	9	7	9	5	8	10	8	13	22	8	7	21	37	13	10	26	20	12	12	22	16	26	11	14
2	3	8	18	15	10	14	18	15	5	15	24	27	18	14	21	12	24	34	33	38	39	45	45	36	22
3	43	20	4	7	21	33	22	29	26	18	16	15	15	11	18	24	28	19	23	30	21	24	24	18	21
4	26	15	16	24	16	11	15	10	14	22	24	24	27	24	34	27	16	24	20	29	16	22	16	26	21
5	17	19	8	8	8	13	19	24	29	40	43	36	50	36	36	29	22	22	39	38	28	26	12	20	26
6	12	19	7	8	5	5	7	5	2	6	6	5	2	2	2	1	3	6	10	7	19	15	16	13	8
7	9	7	9	8	9	1	25	39	40	17	17	11	13	11	10	13	24	32	30	32	33	52	75	73	25
8	71	72	55	46	41	46	40	28	22	30	54	55	23	27	17	57	91	109	98	81	59	62	59	28	53
9	27	19	10	18	13	11	19	23	27	33	29	21	7	9	12	11	8	5	9	3	2	3	2	8	14
10	8	5	4	3	6	7	15	19	15	6	5	6	7	6	21	66	64	54	91	44	56	63	59	59	29
11	69	M	61	49	85	82	54	47	63	96	104	88	52	52	49	60	89	87	61	88	100	75	125	21	72
12	10	11	11	10	25	13	17	20	19	16	12	11	9	8	7	5	3	3	2	1	1	1	1	3	9
13	2	2	1	1	1	2	4	4	4	4	6	3	2	2	5	4	4	3	2	1	1	2	2	2	3
14	0	3	4	2	4	7	15	10	4	8	15	21	19	40	41	44	41	41	27	65	31	10	7	24	20
15	48	58	66	65	50	47	44	43	50	39	25	19	17	19	19	22	23	29	24	22	21	14	12	12	33
16	7	4	2	1	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	1	0	1	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	4	0
19	6	6	23	39	21	13	33	49	47	47	50	37	52	38	44	47	40	26	42	66	71	78	59	46	41
20	56	60	43	40	25	43	50	25	25	22	22	38	34	36	38	42	34	29	28	23	28	26	17	29	34
21	35	45	46	35	18	19	22	20	31	21	23	12	19	14	17	38	36	32	17	37	46	24	9	11	26
22	17	16	10	14	21	14	15	23	26	15	18	31	24	13	18	9	13	12	13	8	12	11	9	7	15
23	4	2	1	6	9	7	9	6	3	2	1	4	6	15	12	19	17	11	17	14	30	20	12	17	10
24	21	22	22	15	17	22	25	12	26	24	21	24	33	7	9	5	4	6	5	4	M	M	M	M	16
25	M	M	M	M	M	5	3	7	4	2	4	2	2	1	2	2	3	11	10	7	6	4	5	1	4
26	1	2	3	3	0	5	7	21	11	9	11	10	8	18	28	M	M	17	12	20	29	20	14	37	13
27	18	28	20	27	14	20	18	21	14	16	7	7	4	5	15	21	29	40	27	44	29	30	25	16	21
28	21	19	22	22	49	15	26	27	47	62	56	44	30	38	42	45	45	59	42	49	44	49	29	27	38
29	22	16	15	10	11	12	14	20	25	37	34	42	39	48	26	29	28	43	54	51	42	27	24	25	29
30	21	17	14	11	11	12	16	19	23	32	10	5	15	10	7	5	6	5	4	7	7	15	10	13	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
15	16	21	16	48	60	81	91	0	-	125	0	-	72	3	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  
MONTH: SEPTEMBER

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

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	6	3	2	5	6	2	4	5	3	6	2	1	6	6	1	9	3	10	11	17	30	48	43	47	12
2	46	44	49	41	41	47	42	38	5	24	30	30	28	21	24	16	17	17	19	25	55	46	56	45	34
3	46	50	50	46	42	39	32	31	10	11	7	13	7	3	6	3	8	13	11	7	13	10	7	14	20
4	9	7	10	8	11	10	7	7	11	9	9	13	12	5	4	6	4	6	14	18	19	13	10	8	10
5	10	M	9	9	8	10	21	22	33	25	17	20	19	21	16	7	11	14	16	20	23	19	17	28	17
6	22	59	34	33	16	11	9	12	8	9	8	11	9	8	10	14	11	16	4	4	5	5	5	23	14
7	19	21	21	23	29	39	34	33	34	23	26	18	10	7	7	4	6	9	8	29	63	54	47	76	27
8	79	63	48	36	46	42	46	33	42	38	50	48	43	68	91	53	51	66	69	50	74	74	57	41	55
9	36	23	18	18	22	37	39	29	31	40	31	38	35	25	13	19	15	10	11	15	14	10	33	20	24
10	16	21	9	19	38	52	63	20	30	24	12	3	8	8	10	11	26	15	26	51	74	98	117	102	36
11	73	105	106	111	111	104	96	75	56	90	71	60	51	64	69	44	54	55	111	147	126	157	133	157	93
12	113	31	40	115	74	55	45	44	44	47	50	62	54	53	14	10	8	9	21	4	3	9	4	10	38
13	10	21	7	7	12	10	10	10	12	13	12	20	13	13	13	13	3	4	5	4	5	8	18	26	11
14	25	51	52	41	69	70	58	70	46	40	42	33	15	18	29	34	31	60	46	33	54	40	45	109	46
15	90	85	80	84	44	92	85	69	72	67	77	76	96	58	59	64	64	54	64	65	57	50	50	34	68
16	34	26	20	17	22	21	12	11	13	9	9	2	8	3	1	0	1	1	0	0	0	0	0	0	9
17	0	0	1	0	0	0	0	0	1	1	0	0	0	2	6	4	8	20	22	14	11	16	12	6	5
18	5	12	14	15	18	14	5	16	6	6	3	2	1	1	1	1	3	4	8	15	8	14	29	42	10
19	38	M	49	42	50	53	52	40	32	16	18	12	26	43	21	18	15	33	34	34	22	21	25	24	31
20	21	33	27	17	14	14	26	18	19	17	11	16	11	8	8	12	7	16	7	10	10	9	11	15	15
21	9	25	26	17	9	9	33	38	24	25	16	17	8	8	M	M	M	0	0	0	0	0	0	44	15
22	65	9	5	7	0	13	16	18	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
23	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
24	4	0	15	13	9	15	8	19	0	4	41	49	45	40	15	11	9	14	8	6	1	4	6	9	14
25	7	7	12	31	45	36	10	16	17	5	6	6	6	6	6	7	6	6	8	9	10	11	7	6	12
26	8	9	8	7	9	16	19	25	26	12	12	8	7	10	6	6	6	6	6	6	7	7	6	5	10
27	6	6	6	6	6	6	7	11	12	21	18	12	6	9	6	6	6	6	9	7	7	6	6	11	8
28	15	6	6	6	7	20	35	43	46	31	38	32	34	37	46	46	59	65	68	80	43	39	34	31	36
29	30	28	21	21	20	21	30	34	33	47	34	32	41	35	26	23	25	33	24	64	63	54	44	52	35
30	34	25	26	21	18	23	25	31	27	42	35	30	M	10	11	10	7	8	6	9	13	11	6	10	19

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	15	24	15	57	74	103	113	0	-	157	0	-	93	3	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 : July – September 2018

Week Ending	No. of Samples	Suspended Solids, mg/L			pH		
		Maximum	Minimum	Average	Maximum	Minimum	Average
07/07/18	7	22	12	16	8.3	7.8	8.0
14/07/18	7	21	13	17	8.3	7.9	8.0
21/07/18	7	22	14	17	8.3	7.7	8.0
28/07/18	7	20	13	17	8.2	7.7	7.9
04/08/18	6*	22	12	17	8.2	7.6	8.0
11/08/18	7	23	11	16	8.2	7.6	8.0
18/08/18	7	20	10	15	8.2	7.5	7.9
25/08/18	6*	23	15	18	8.2	7.6	7.9
01/09/18	7	21	14	17	8.1	7.8	8.0
08/09/18	7	22	13	17	8.3	7.7	8.1
15/09/18	7	23	15	19	8.3	7.5	7.9
22/09/18	7	20	12	17	8.2	7.8	8.0
29/09/18	7	23	13	18	8.3	7.7	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 : July – September 2018

Sampling date		4/7/2018	7/8/2018	6/9/2018
Barium,	ug/L	<150	163	150
Mercury,	ug/L	<0.5	<0.5	<0.5
Cadmium,	ug/L	<1	1.2	1.4
Iron,	ug/L	<400	<400	<400
Total Phosphorous,	mg/L	<0.8	<0.8	<0.8
Total Nitrogen,	mg/L	82	127	101
Cyanide,	mg/L	0.02	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

<b>EM&amp;A Log Ref.</b>	<b>Mitigation Measures</b>	<b>Implementation Status</b>
	<b>GENERAL</b>	
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
	<b>WATER QUALITY</b>	
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
	<b>WASTE</b>	
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
	<b>NOISE</b>	
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