

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**

**January – March 2018**

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

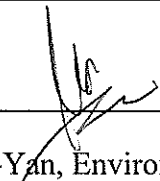


**ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499**

**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 (January to March 2018)
Date	27 June 2018
Certified by	 (Mr. IP Tat-Yan, Environmental Team Leader)

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## 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 January to March 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
L4	04/02/2018 19:30 to 14/02/2018 07:03	Unit overhaul
L5	01/01/2018 00:01 to 03/02/2018 22:07	Unit overhaul
L5	29/03/2018 20:30 to 31/03/2018 23:59	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	02/01/2018 09:00 to 02/01/2018 12:40	A fault in fan group	EPD was informed on 05/01/2018
L2 FGD	09/01/2018 10:42 to 09/01/2018 11:17	Low flue gas temperature at FGD inlet	EPD was informed on 12/01/2018
L2 FGD	27/01/2018 00:01 to 31/01/2018 09:32	Power supply system routine maintenance	EPD was informed on 02/02/2018
L2 FGD	03/02/2018 00:11 to 05/02/2018 04:50	Lamma Power Station Extension Busbar 1 maintenance	EPD was informed on 05/02/2018
L2 FGD	10/02/2018 00:06 to 12/02/2018 03:50	Lamma Power Station Extension Busbar 2 maintenance	EPD was informed on 05/02/2018

Equipment	Period	Cause	Actions Taken
L2 FGD	22/02/2018 15:36 to 12/03/2018 09:26	Booster fan bearing replacement	EPD was informed on 13/03/2018
L4 FGD	14/02/2018 07:03 to 24/02/2018 12:01	Overhaul	EPD was informed on 26/02/2018
L5 FGD	06/12/2017 00:00 to 04/02/2018 06:50	Defect rectification	EPD was informed on 05/02/2018
L5 FGD	03/03/2018 13:19 to 03/03/2018 14:12	Booster Fan stalling alarm fault	EPD was informed on 06/03/2018

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 January to March 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
L4	04/02/2018 19:30 to 14/02/2018 07:03	Unit overhaul
L5	01/01/2018 00:01 to 03/02/2018 22:07	Unit overhaul
L5	29/03/2018 20:30 to 31/03/2018 23:59	Defect rectification

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

Equipment	Period	Cause	Actions Taken
L2 FGD	02/01/2018 09:00 to 02/01/2018 12:40	A fault in fan group	EPD was informed on 05/01/2018
L2 FGD	09/01/2018 10:42 to 09/01/2018 11:17	Low flue gas temperature at FGD inlet	EPD was informed on 12/01/2018
L2 FGD	27/01/2018 00:01 to 31/01/2018 09:32	Power supply system routine maintenance	EPD was informed on 02/02/2018
L2 FGD	03/02/2018 00:11 to 05/02/2018 04:50	Lamma Power Station Extension Busbar 1 maintenance	EPD was informed on 05/02/2018
L2 FGD	10/02/2018 00:06 to 12/02/2018 03:50	Lamma Power Station Extension Busbar 2 maintenance	EPD was informed on 05/02/2018
L2 FGD	22/02/2018 15:36 to 12/03/2018 09:26	Booster fan bearing replacement	EPD was informed on 13/03/2018
L4 FGD	20/01/2018 01:52 to 20/01/2018 01:55	Routine damper exercise	EPD was informed on 25/01/2018
L4 FGD	28/01/2018 02:14 to 28/01/2018 02:19	Routine damper exercise	EPD was informed on 29/01/2018
L4 FGD	14/02/2018 07:03 to 24/02/2018 12:01	Overhaul	EPD was informed on 26/02/2018
L4 FGD	10/03/2018 03:47 to 10/03/2018 04:03	Routine damper exercise	EPD was informed on 13/03/2018
L4 FGD	17/03/2018 04:17 to 17/03/2018 04:20	Routine damper exercise	EPD was informed on 20/03/2018

L5 FGD	06/12/2017 00:00 to 04/02/2018 06:50	Defect rectification	EPD was informed on 05/02/2018
L5 FGD	03/03/2018 13:19 to 03/03/2018 14:12	Booster Fan stalling alarm fault	EPD was informed on 06/03/2018

## 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.

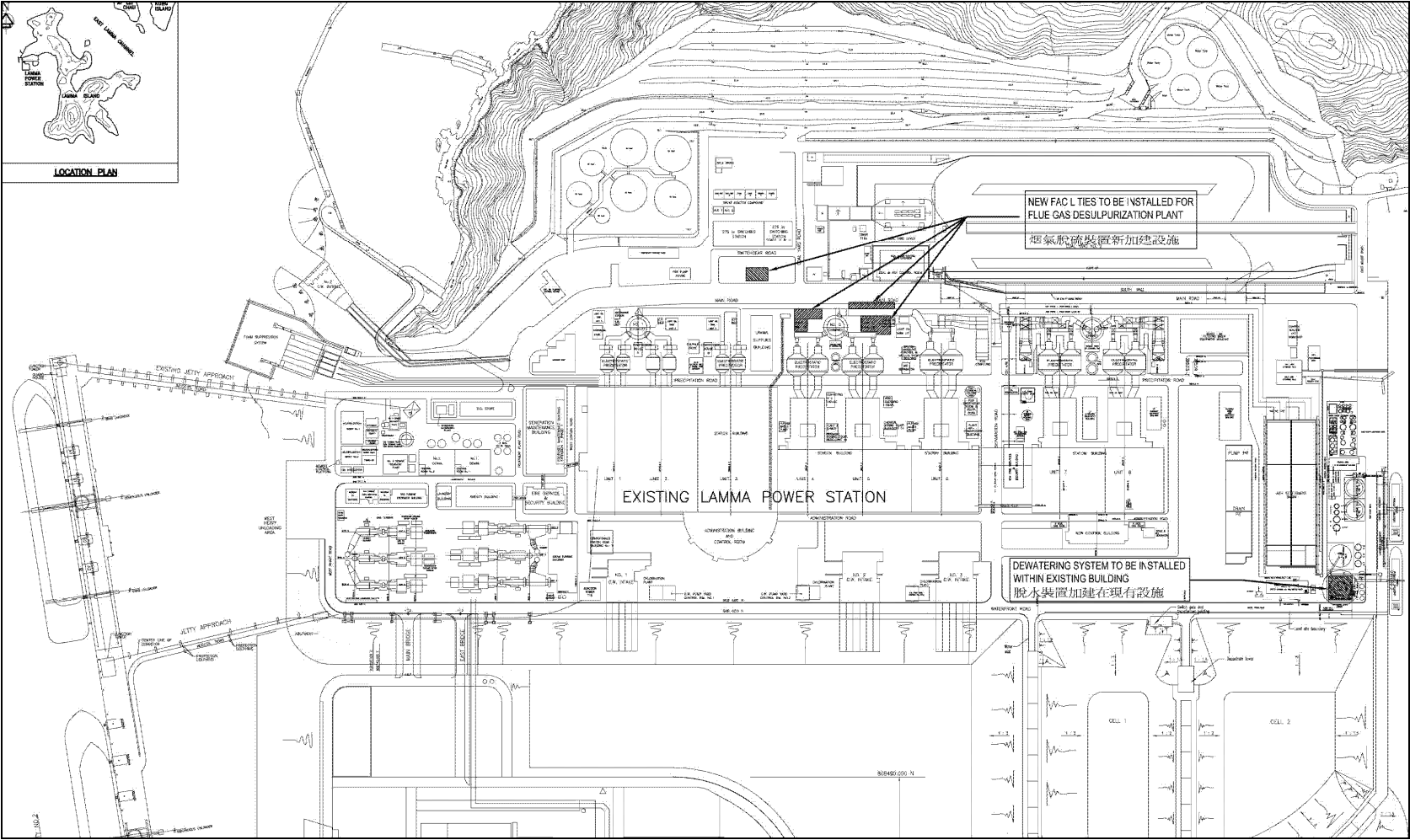


Figure 1.1a Location of New Facilities for L4 & L5 FGD Plants

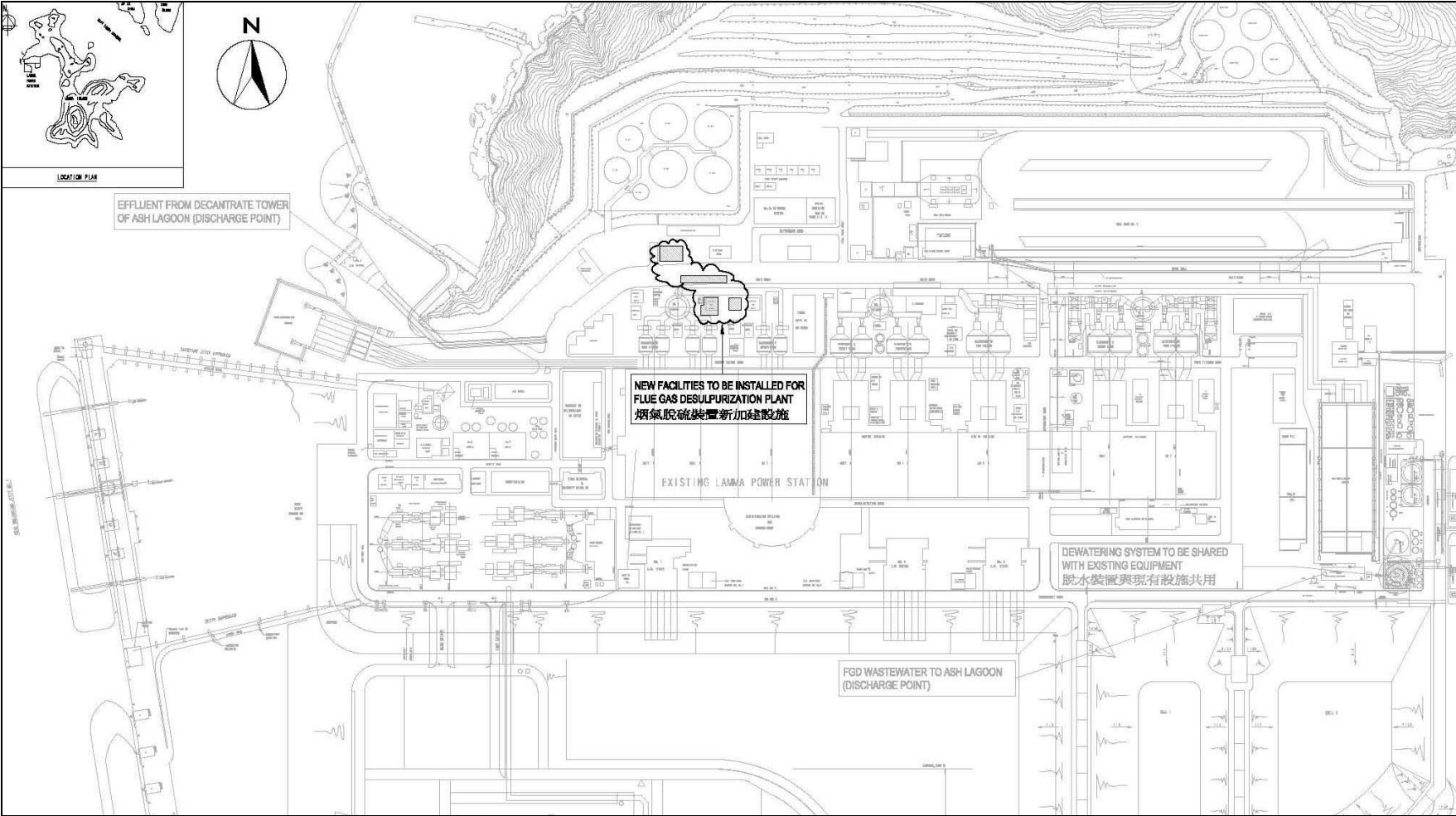


Figure 1.1b Location of New Facilities for L2 FGD Plant

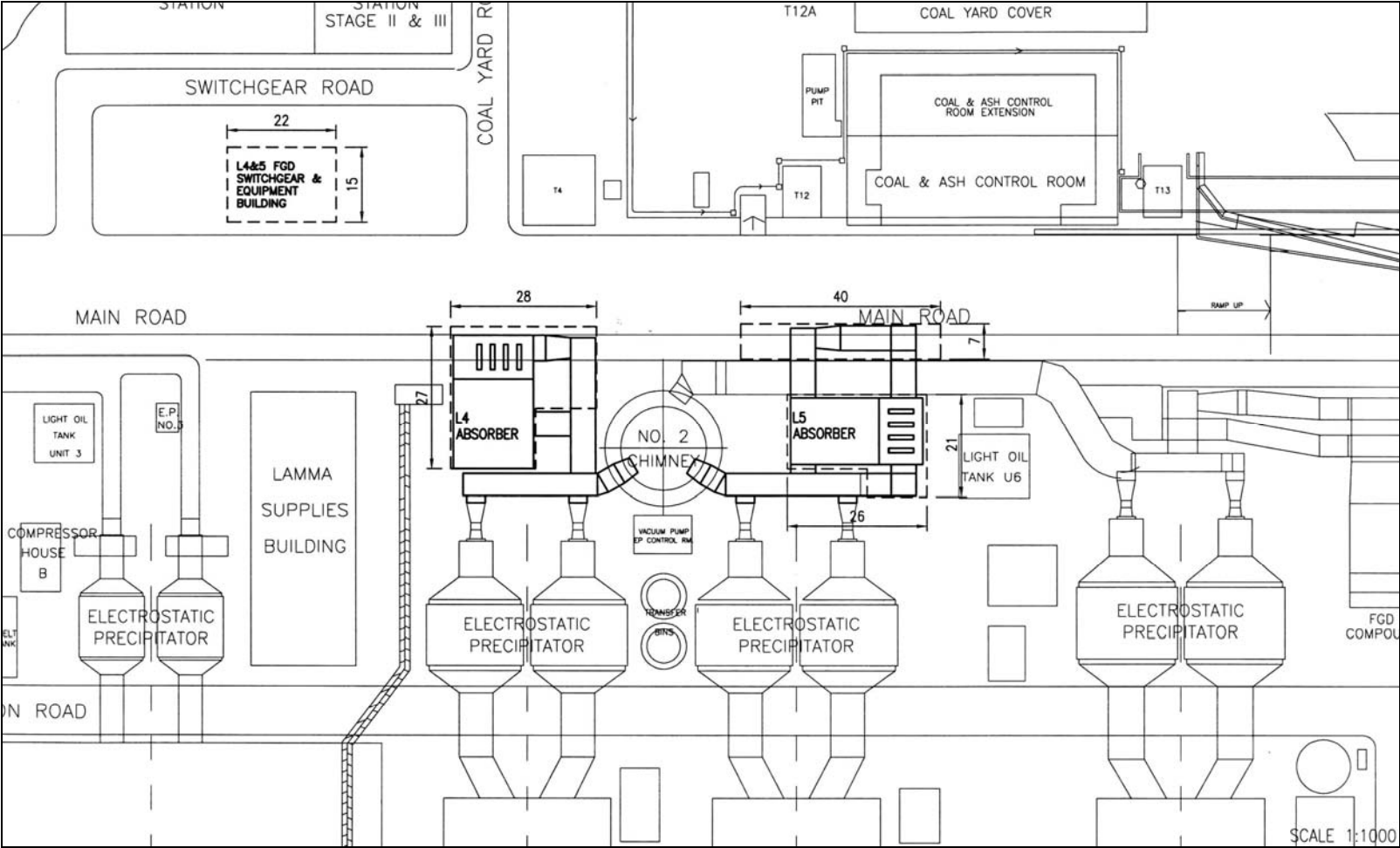


Figure 1.2a General Arrangement of L4 & L5 FGD Plants

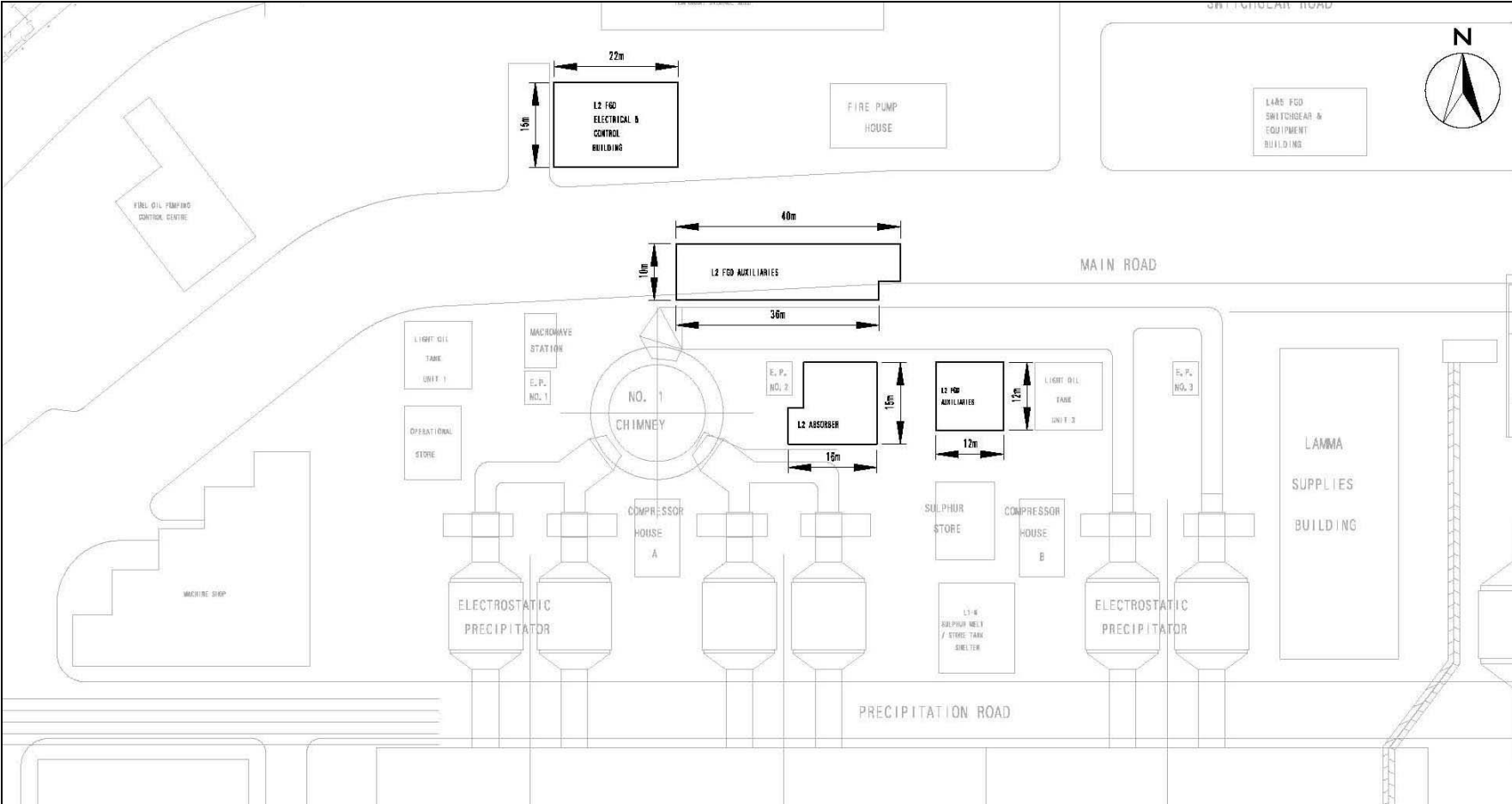


Figure 1.2b General Arrangement of L2 FGD Plant

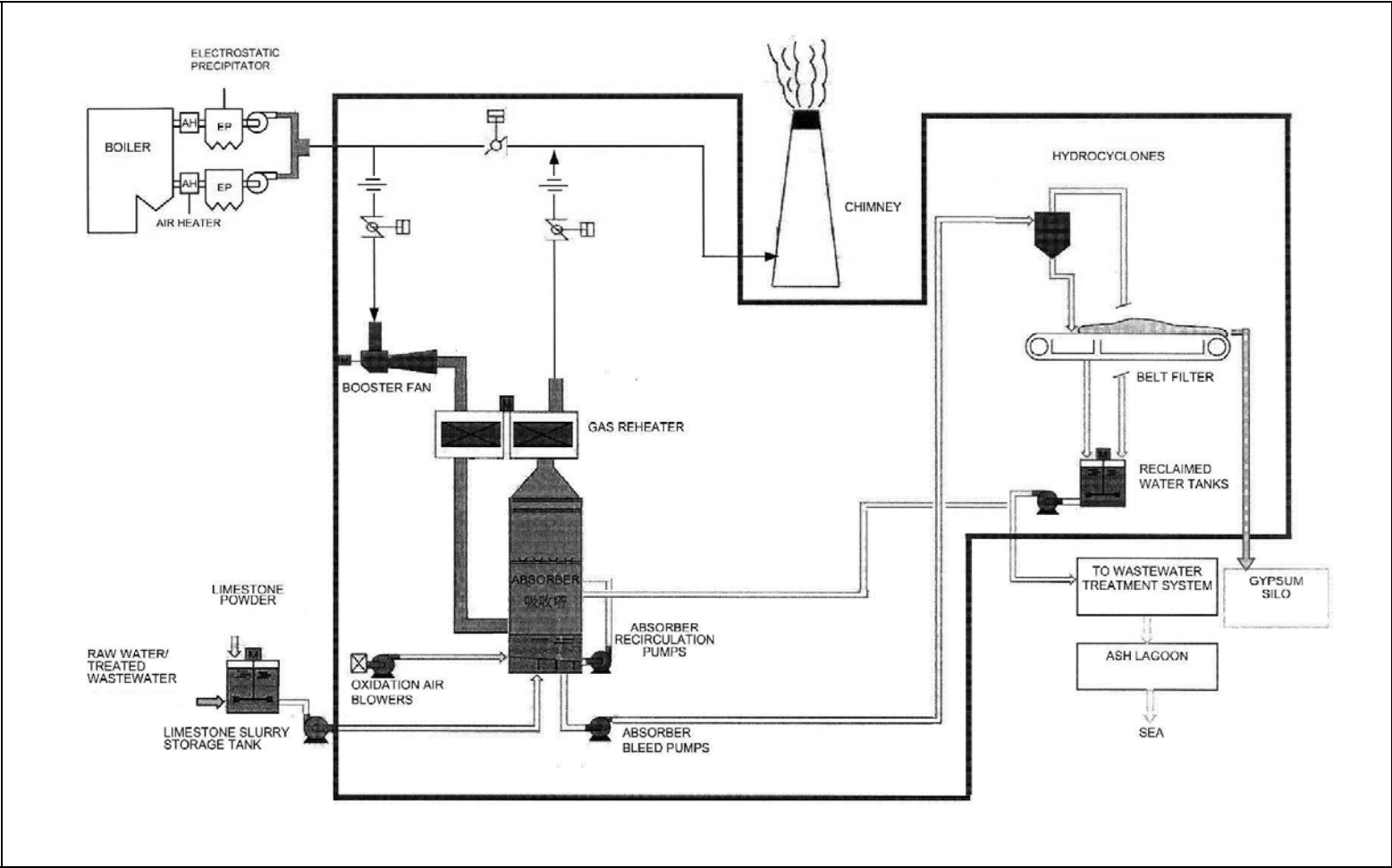


Figure 1.3 Schematic Diagram of the L2, L4 & L5 FGD Plant

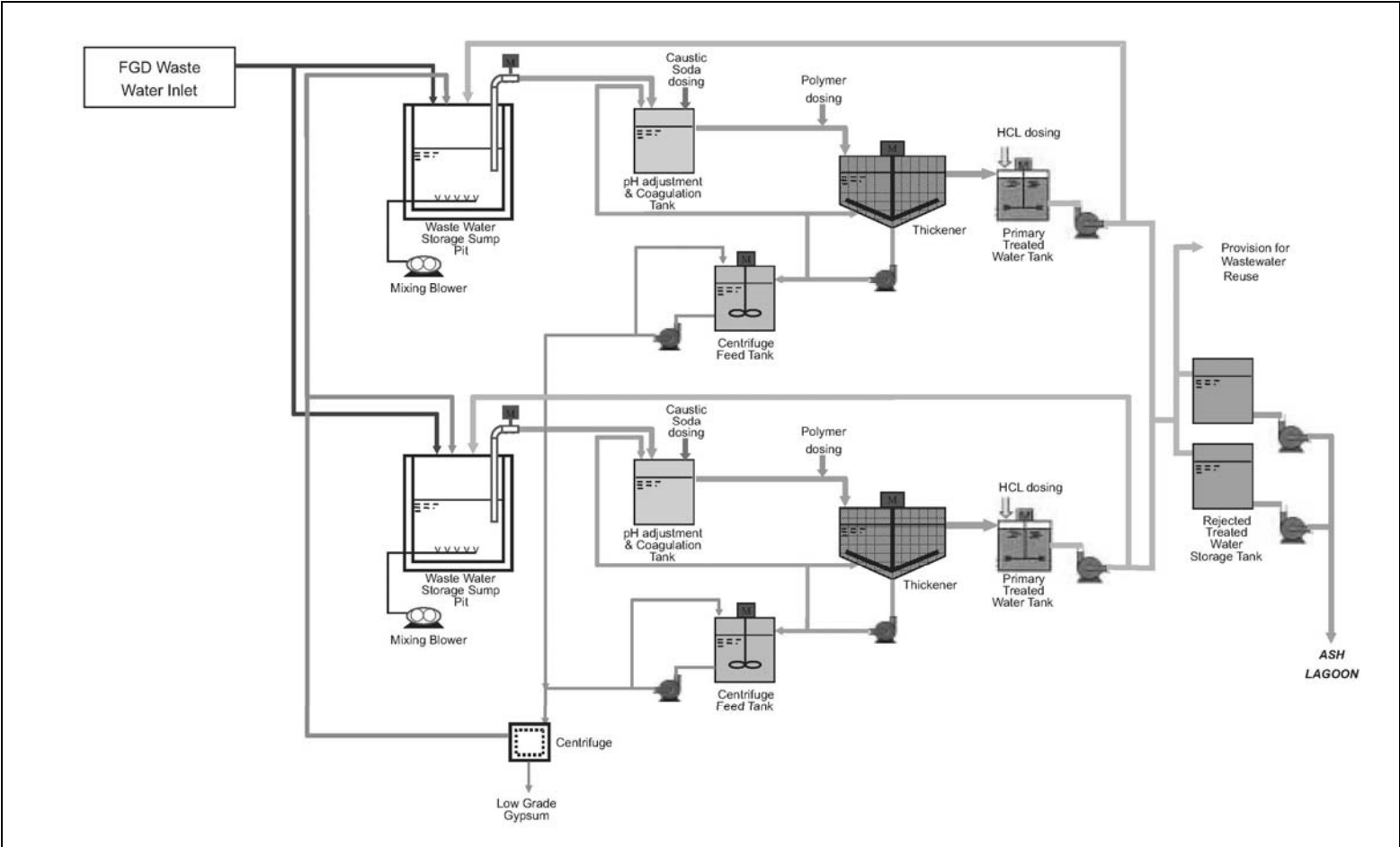


Figure 1.4 Simplified Schematic Diagram of FGD Wastewater Treatment Plant

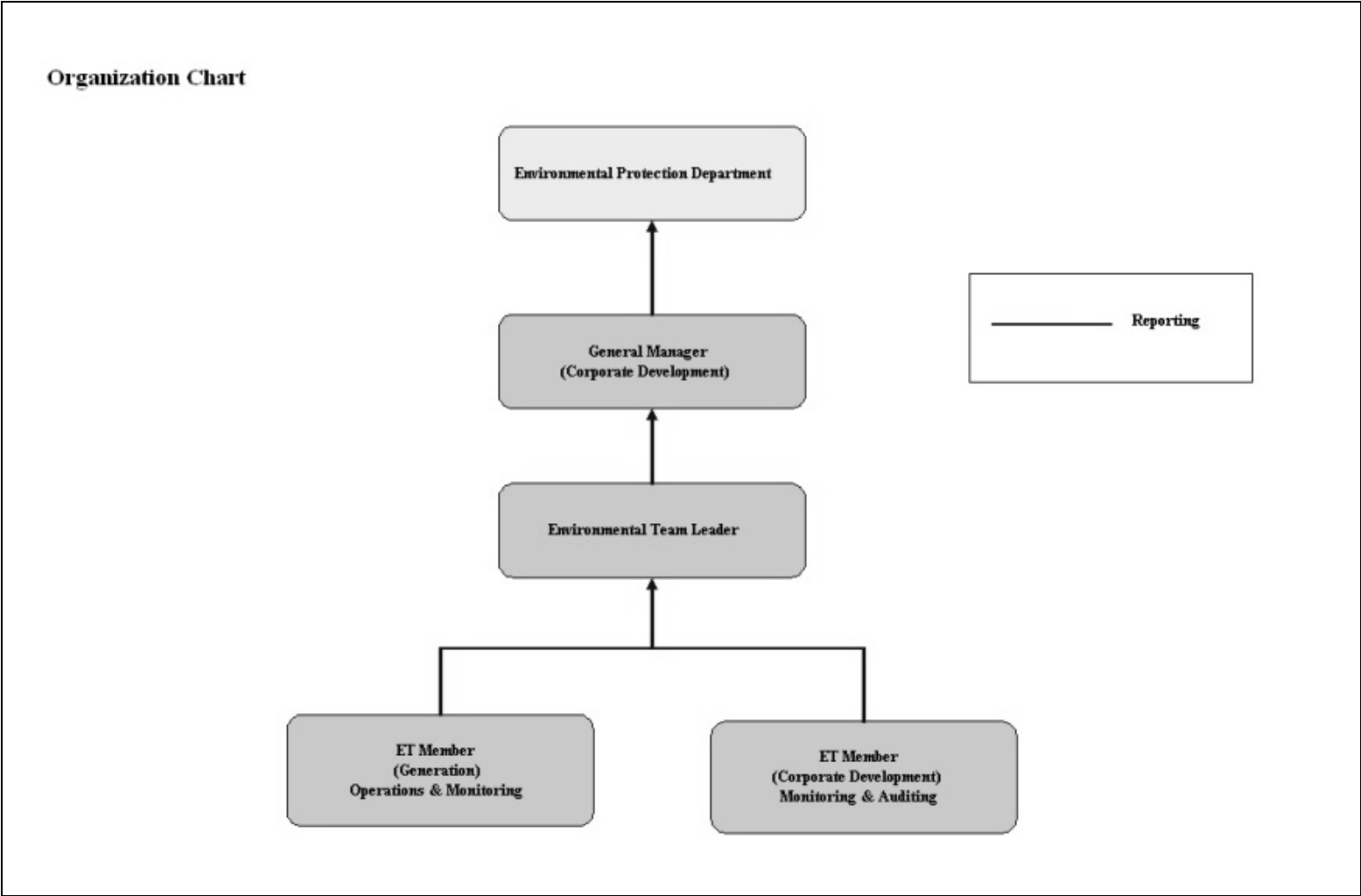


Figure 1.5 Organization Structure at Operational Phase of the Projects

## 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.	01/01/18 31/03/18	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	01/01/18 31/03/18	0	0	
3	Ambient SO2 & NOx monitoring at the Peak, Queen Mary Hospital, Victoria Road, Chung Hom Kok, Ap Lei Chau and Cheung Chau.	01/01/18 31/03/18	0	0	
Water					
1	pH in WWTP Effluent	01/01/18 31/03/18	0	0	
2	Suspended Solids in WWTP Effluent	01/01/18 31/03/18	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	01/01/18 31/03/18	0	0	
4	Barium in WWTP Effluent	01/01/18 31/03/18	0	0	
5	Mercury in WWTP Effluent	01/01/18 31/03/18	0	0	
6	Cadmium in WWTP Effluent	01/01/18 31/03/18	0	0	
7	Cyanide in WWTP Effluent	01/01/18 31/03/18	0	0	
8	Total Phosphorus in WWTP Effluent	01/01/18 31/03/18	0	0	
9	Total Nitrogen in WWTP Effluent	01/01/18 31/03/18	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
January 2018	3,934.00 MT	0 MT
February 2018	8,583.77 MT	0 MT
March 2018	4,308.53 MT	157.92 MT

#### 4.3 Status of Environmental Licensing and Permitting

All permits/licenses obtained as of March 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**

No major outage plan for the coming three months.

### **5.2 Key issues for the coming 3 months**

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

#### *Air Impact*

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

#### *Water Impact*

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

## **6. CONCLUSION**

Environmental monitoring was performed as required in the reporting period from January to March 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	Continuous at existing ambient air monitoring stations				ET to review data on post-hoc basis and check for possible power station contribution.
	SO2		800 (µg/m3) (1h)	-	800	
	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.
	Suspended Solids	Daily	30 mg/L	25	30	
	Iron	Monthly	4 mg/L	3.6	4	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.
	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: First Quarter of 2018 (January - March)

Date	RSP concentration ( $\mu\text{g}/\text{m}^3$ )	
	Reservoir	East Gate
01/01/2018	65	70
02/01/2018	65	68
03/01/2018	39	40
04/01/2018	27	28
05/01/2018	27	27
06/01/2018	9	8
07/01/2018	7	8
08/01/2018	17	15
09/01/2018	33	35
10/01/2018	30	33
11/01/2018	28	27
12/01/2018	24	32
13/01/2018	41	46
14/01/2018	30	32
15/01/2018	34	34
16/01/2018	31	31
17/01/2018	80	81
18/01/2018	43	46
19/01/2018	31	32
20/01/2018	30	30
21/01/2018	48	48
22/01/2018	75	74
23/01/2018	44	43
24/01/2018	41	42
25/01/2018	32	34
26/01/2018	40	42
27/01/2018	31	33
28/01/2018	45	49
29/01/2018	19	27
30/01/2018	25	30
31/01/2018	16	19

Date	RSP concentration ( $\mu\text{g}/\text{m}^3$ )	
	Reservoir	East Gate
01/02/2018	36	41
02/02/2018	44	46
03/02/2018	48	53
04/02/2018	64	68
05/02/2018	58	65
06/02/2018	43	42
07/02/2018	43	50
08/02/2018	43	43
09/02/2018	37	41
10/02/2018	61	59
11/02/2018	68	71
12/02/2018	45	51
13/02/2018	66	69
14/02/2018	57	61
15/02/2018	64	58
16/02/2018	51	44
17/02/2018	41	43
18/02/2018	39	40
19/02/2018	43	49
20/02/2018	32	27
21/02/2018	28	26
22/02/2018	18	18
23/02/2018	13	13
24/02/2018	31	32
25/02/2018	47	49
26/02/2018	23	20
27/02/2018	30	32
28/02/2018	35	35

Date	RSP concentration ( $\mu\text{g}/\text{m}^3$ )	
	Reservoir	East Gate
01/03/2018	31	31
02/03/2018	30	31
03/03/2018	23	36
04/03/2018	##	##
05/03/2018	17	##
06/03/2018	36	31
07/03/2018	27	29
08/03/2018	19	15
09/03/2018	26	28
10/03/2018	36	40
11/03/2018	32	35
12/03/2018	29	30
13/03/2018	32	31
14/03/2018	29	28
15/03/2018	43	50
16/03/2018	36	33
17/03/2018	31	32
18/03/2018	31	33
19/03/2018	38	34
20/03/2018	37	41
21/03/2018	42	46
22/03/2018	32	33
23/03/2018	43	47
24/03/2018	50	53
25/03/2018	51	57
26/03/2018	54	56
27/03/2018	53	56
28/03/2018	40	42
29/03/2018	37	40
30/03/2018	32	35
31/03/2018	27	31

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

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

### B.2.1 Monthly Summary of Stack NO<sub>x</sub> and SO<sub>2</sub> for Unit L5

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 (%)
1/1/2018	*	*	*
2/1/2018	*	*	*
3/1/2018	*	*	*
4/1/2018	*	*	*
5/1/2018	*	*	*
6/1/2018	*	*	*
7/1/2018	*	*	*
8/1/2018	*	*	*
9/1/2018	*	*	*
10/1/2018	*	*	*
11/1/2018	*	*	*
12/1/2018	*	*	*
13/1/2018	*	*	*
14/1/2018	*	*	*
15/1/2018	*	*	*
16/1/2018	*	*	*
17/1/2018	*	*	*
18/1/2018	*	*	*
19/1/2018	*	*	*
20/1/2018	*	*	*
21/1/2018	*	*	*
22/1/2018	*	*	*
23/1/2018	*	*	*
24/1/2018	*	*	*
25/1/2018	*	*	*
26/1/2018	*	*	*
27/1/2018	*	*	*
28/1/2018	*	*	*
29/1/2018	*	*	*
30/1/2018	*	*	*
31/1/2018	*	*	*

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/2/2018	*	*	*
2/2/2018	*	*	*
3/2/2018	*	*	*
4/2/2018	49	417	13
5/2/2018	51	444	15
6/2/2018	52	405	13
7/2/2018	55	414	13
8/2/2018	60	410	14
9/2/2018	66	391	13
10/2/2018	49	383	12
11/2/2018	50	384	11
12/2/2018	54	393	13
13/2/2018	64	353	13
14/2/2018	61	406	13
15/2/2018	62	392	12
16/2/2018	50	391	13
17/2/2018	41	395	15
18/2/2018	41	377	14
19/2/2018	37	403	16
20/2/2018	42	473	18
21/2/2018	41	439	10
22/2/2018	37	415	14
23/2/2018	47	464	14
24/2/2018	47	363	15
25/2/2018	49	422	16
26/2/2018	44	401	13
27/2/2018	43	401	15
28/2/2018	49	376	18

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/3/2018	61	387	16
2/3/2018	55	374	12
3/3/2018	85	414	17
4/3/2018	81	378	13
5/3/2018	73	395	14
6/3/2018	99	363	10
7/3/2018	78	383	12
8/3/2018	73	380	8
9/3/2018	60	360	8
10/3/2018	65	379	8
11/3/2018	49	378	8
12/3/2018	58	369	8
13/3/2018	79	374	10
14/3/2018	57	340	9
15/3/2018	55	339	10
16/3/2018	52	389	15
17/3/2018	51	387	12
18/3/2018	55	391	11
19/3/2018	58	376	8
20/3/2018	80	361	8
21/3/2018	81	388	11
22/3/2018	80	391	8
23/3/2018	72	388	8
24/3/2018	70	382	13
25/3/2018	76	375	8
26/3/2018	68	382	9
27/3/2018	80	395	9
28/3/2018	86	439	8
29/3/2018	87	373	8
30/3/2018	*	*	*
31/3/2018	*	*	*

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 (%)
1/1/2018	47	375	13
2/1/2018	53	405	20
3/1/2018	44	380	23
4/1/2018	48	381	24
5/1/2018	43	356	24
6/1/2018	42	327	20
7/1/2018	*	*	*
8/1/2018	39	364	18
9/1/2018	52	369	19
10/1/2018	23	314	23
11/1/2018	23	336	21
12/1/2018	24	336	20
13/1/2018	24	339	21
14/1/2018	25	317	20
15/1/2018	32	308	16
16/1/2018	51	358	20
17/1/2018	40	395	21
18/1/2018	28	291	19
19/1/2018	26	319	20
20/1/2018	28	284	21
21/1/2018	34	304	21
22/1/2018	40	352	20
23/1/2018	38	386	22
24/1/2018	40	347	16
25/1/2018	42	388	22
26/1/2018	48	323	19
27/1/2018	59	275	25
28/1/2018	57	318	20
29/1/2018	48	361	22
30/1/2018	63	313	22
31/1/2018	66	306	21

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/2/2018	71	310	21
2/2/2018	67	323	27
3/2/2018	78	387	27
4/2/2018	66	332	14
5/2/2018	*	*	*
6/2/2018	*	*	*
7/2/2018	*	*	*
8/2/2018	*	*	*
9/2/2018	*	*	*
10/2/2018	*	*	*
11/2/2018	*	*	*
12/2/2018	*	*	*
13/2/2018	*	*	*
14/2/2018	FGD Plant Outage	299	18
15/2/2018	FGD Plant Outage	346	12
16/2/2018	FGD Plant Outage	386	10
17/2/2018	FGD Plant Outage	358	9
18/2/2018	FGD Plant Outage	413	9
19/2/2018	FGD Plant Outage	327	9
20/2/2018	FGD Plant Outage	330	11
21/2/2018	FGD Plant Outage	328	12
22/2/2018	FGD Plant Outage	357	9
23/2/2018	FGD Plant Outage	361	8
24/2/2018	27	416	24
25/2/2018	39	376	23
26/2/2018	34	338	22
27/2/2018	52	351	18
28/2/2018	53	346	21

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/3/2018	47	345	23
2/3/2018	51	317	22
3/3/2018	76	359	24
4/3/2018	89	379	17
5/3/2018	99	398	19
6/3/2018	89	392	17
7/3/2018	93	385	21
8/3/2018	61	336	13
9/3/2018	60	344	14
10/3/2018	56	347	15
11/3/2018	67	342	12
12/3/2018	57	342	15
13/3/2018	47	346	13
14/3/2018	45	415	17
15/3/2018	54	376	20
16/3/2018	77	345	21
17/3/2018	33	393	18
18/3/2018	41	335	20
19/3/2018	46	314	23
20/3/2018	87	312	19
21/3/2018	105	358	17
22/3/2018	53	382	15
23/3/2018	72	335	8
24/3/2018	83	367	12
25/3/2018	88	366	16
26/3/2018	66	356	18
27/3/2018	88	334	20
28/3/2018	69	325	21
29/3/2018	52	332	22
30/3/2018	48	357	21
31/3/2018	40	315	17

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 (%)
1/1/2018	64	14
2/1/2018	71	12
3/1/2018	70	11
4/1/2018	69	12
5/1/2018	57	12
6/1/2018	67	13
7/1/2018	*	*
8/1/2018	77	12
9/1/2018	78	13
10/1/2018	67	14
11/1/2018	63	18
12/1/2018	70	16
13/1/2018	*	*
14/1/2018	*	*
15/1/2018	61	15
16/1/2018	79	15
17/1/2018	68	17
18/1/2018	53	15
19/1/2018	63	17
20/1/2018	67	18
21/1/2018	67	22
22/1/2018	49	21
23/1/2018	50	17
24/1/2018	57	17
25/1/2018	62	16
26/1/2018	58	18
27/1/2018	FGD Plant Outage	33
28/1/2018	FGD Plant Outage	20
29/1/2018	FGD Plant Outage	21
30/1/2018	FGD Plant Outage	26
31/1/2018	97	18

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) #	Opacity (%)
1/2/2018	99	21
2/2/2018	87	20
3/2/2018	FGD Plant Outage	30
4/2/2018	FGD Plant Outage	21
5/2/2018	83	20
6/2/2018	79	15
7/2/2018	83	16
8/2/2018	75	16
9/2/2018	74	18
10/2/2018	FGD Plant Outage	22
11/2/2018	FGD Plant Outage	22
12/2/2018	62	20
13/2/2018	71	15
14/2/2018	61	13
15/2/2018	45	12
16/2/2018	*	*
17/2/2018	*	*
18/2/2018	*	*
19/2/2018	*	*
20/2/2018	46	13
21/2/2018	49	11
22/2/2018	50	15
23/2/2018	*	*
24/2/2018	*	*
25/2/2018	*	*
26/2/2018	*	*
27/2/2018	*	*
28/2/2018	FGD Plant Outage	15

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/3/2018	FGD Plant Outage	14
2/3/2018	FGD Plant Outage	13
3/3/2018	FGD Plant Outage	14
4/3/2018	*	*
5/3/2018	FGD Plant Outage	14
6/3/2018	FGD Plant Outage	12
7/3/2018	FGD Plant Outage	12
8/3/2018	FGD Plant Outage	12
9/3/2018	FGD Plant Outage	11
10/3/2018	*	*
11/3/2018	*	*
12/3/2018	90	11
13/3/2018	78	10
14/3/2018	76	10
15/3/2018	93	12
16/3/2018	83	10
17/3/2018	*	*
18/3/2018	77	11
19/3/2018	88	11
20/3/2018	86	9
21/3/2018	*	*
22/3/2018	*	*
23/3/2018	*	*
24/3/2018	42	12
25/3/2018	*	*
26/3/2018	77	9
27/3/2018	89	9
28/3/2018	91	10
29/3/2018	89	10
30/3/2018	100	10
31/3/2018	143	13

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.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: JANUARY

STATION : VICTORIA PEAK  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	2	2	1	2	2	2	2	2	2	3	5	3	3	3	3	3	4	3	2	2	2	2	2	4	3	
2	3	3	3	3	2	2	3	3	4	4	5	4	3	4	3	3	3	3	2	2	3	3	2	3	3	
3	2	3	2	2	2	3	3	3	3	3	4	4	4	3	4	4	4	3	2	1	2	2	2	2	3	
4	2	1	1	1	2	1	1	1	2	1	2	2	2	1	2	2	1	1	0	0	0	0	1	0	1	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	1	0	1	0	0	1	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	0	0	0	3	3	2	1	0	1	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	
10	1	1	1	0	0	0	0	0	1	1	M	M	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	2	2	1	1	1	1	1	1	2	2	T	T	T	T	2	T	T	1	1	2	3	3	1	1	2	
12	2	1	1	1	1	1	1	1	5	5	2	1	1	1	1	0	M	2	3	3	3	4	4	2	2	
13	1	2	2	2	3	3	3	3	4	4	5	4	4	3	3	2	2	1	1	1	2	2	1	2	3	
14	2	2	2	1	1	2	2	2	2	2	2	2	1	1	0	0	0	1	0	1	0	1	1	2	1	
15	1	1	1	1	1	1	2	3	4	4	5	4	4	4	3	4	3	3	3	3	3	3	4	2	3	
16	2	2	1	1	1	1	0	2	2	2	2	3	4	8	19	17	22	32	19	7	8	12	13	9	8	
17	8	9	10	14	18	15	13	11	11	11	12	10	8	17	40	48	26	7	4	5	10	9	6	7	14	
18	7	6	4	4	4	4	6	7	8	6	5	6	5	5	6	6	6	5	5	3	3	2	3	2	5	
19	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2	3	2	1	2	2	1	1	
21	0	0	0	1	1	1	1	2	1	1	1	1	3	1	1	2	1	2	4	3	0	0	1	0	1	
22	4	2	0	1	2	6	6	4	5	7	12	14	16	35	44	32	34	28	25	19	11	4	3	3	13	
23	2	1	0	0	0	0	0	0	0	0	1	2	1	0	0	2	8	3	2	1	1	0	3	3	1	
24	2	2	1	0	1	1	0	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	1	
25	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	M	1	1	0	0	0	0	1	0	
26	0	0	0	0	1	0	0	0	0	0	1	0	1	2	1	0	0	0	0	0	0	0	0	0	1	0
27	1	1	1	1	1	2	1	1	2	2	2	3	2	1	2	2	2	3	2	2	2	1	1	2	2	
28	1	1	1	1	0	0	0	0	1	3	3	4	2	4	1	2	5	4	1	0	2	1	0	0	2	
29	0	0	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0	1	1	2	1	0	0	0	0	
30	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	1	0	1	0	0	0	0	0	
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		
2	1	2	1	4	8	17	27	0	-	48	0	-	14	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: JANUARY

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	10	9	10	8	5	6	9	28	27	34	32	19	17	15	15	27	40	62	35	23	16	13	10	13	20
2	10	8	7	7	7	8	13	26	35	34	29	31	29	23	37	41	36	43	19	20	16	15	11	10	21
3	7	7	5	3	3	3	4	9	13	17	11	11	9	12	12	11	22	24	18	6	10	10	8	6	10
4	2	1	1	0	0	0	1	5	11	17	21	17	11	6	13	21	28	20	12	15	9	7	16	12	10
5	6	5	5	4	0	1	2	7	23	29	44	39	35	39	29	29	50	76	42	24	20	16	11	14	23
6	8	11	7	2	2	3	2	5	7	13	12	12	13	14	15	14	16	16	12	12	11	9	9	10	10
7	8	9	10	6	6	3	2	2	3	3	3	5	4	2	3	5	2	3	2	2	6	7	9	5	5
8	2	1	0	1	1	1	2	7	8	16	41	40	32	27	27	29	32	32	31	30	23	7	2	7	17
9	0	0	0	0	0	0	0	3	11	10	14	14	19	21	19	16	15	20	21	20	22	11	10	25	11
10	17	M	5	2	1	0	2	12	35	41	M	M	85	100	132	137	118	164	151	152	94	75	78	67	70
11	67	43	34	22	17	22	41	73	113	123	T	T	T	T	81	T	T	142	156	176	141	99	85	58	83
12	56	33	26	15	6	6	16	41	52	56	79	M	M	M	M	M	M	3	4	10	33	30	25	29	
13	18	12	10	8	7	8	15	23	31	26	21	14	14	10	11	14	20	24	17	14	10	10	7	6	15
14	5	5	5	4	5	4	4	6	11	10	7	15	14	8	10	12	6	18	22	14	13	6	3	9	9
15	6	9	4	4	4	5	9	14	26	38	35	25	33	36	35	47	54	67	65	12	9	7	8	9	23
16	10	5	4	3	3	3	6	14	28	39	49	42	32	41	47	41	55	75	69	36	23	27	30	30	30
17	39	44	41	35	36	28	29	28	43	74	103	96	73	82	116	104	72	20	3	6	10	10	10	23	47
18	13	7	7	9	7	7	6	6	13	25	30	17	20	30	41	60	78	49	18	26	16	11	11	11	22
19	6	7	10	8	8	8	10	16	45	53	35	44	28	31	33	36	42	41	29	19	11	8	8	7	23
20	7	7	8	7	4	9	10	13	15	14	8	16	14	6	13	23	32	17	31	10	7	8	7	13	12
21	5	6	4	5	4	6	6	5	5	6	11	10	8	10	9	14	23	49	83	35	2	2	4	14	14
22	51	38	7	11	19	24	26	26	45	65	88	85	83	89	92	86	122	156	144	109	80	30	15	19	63
23	13	10	9	10	8	8	9	16	18	18	21	35	28	30	36	50	51	44	99	84	47	12	14	12	28
24	9	M	7	6	4	4	5	6	8	14	14	12	14	16	21	12	12	14	11	7	6	6	5	5	9
25	3	3	3	2	1	2	5	8	14	18	15	7	5	10	13	10	M	29	19	22	18	16	15	7	11
26	8	10	8	6	6	6	11	24	40	52	45	32	30	27	31	40	50	44	26	11	8	7	11	19	23
27	15	6	6	5	8	13	14	18	23	20	17	12	9	16	20	20	27	34	23	24	25	14	8	15	16
28	7	4	5	5	3	2	3	13	31	44	46	52	39	44	34	42	50	48	43	41	38	42	36	32	29
29	24	19	16	11	9	6	11	25	44	41	39	37	34	40	39	44	46	50	49	51	40	36	44	28	33
30	27	20	11	9	6	12	20	24	31	29	25	24	26	28	29	32	38	37	33	35	22	16	16	13	23
31	20	17	15	13	12	16	20	29	24	30	31	27	22	24	27	29	30	40	40	32	22	14	17	17	24

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	15	24	15	49	80	115	142	0	-	176	5	-	83	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

STATION : CHUNG HOM KOK ZONE SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

MONTH: JANUARY

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	2	2	2	2	2	3	4	5	5	4	4	5	4	4	3	3	3	3	3	3	3	3
2	2	2	2	3	2	2	2	4	4	4	4	4	4	4	3	3	3	3	2	1	2	2	2	2	3
3	2	2	2	2	2	2	3	3	3	4	4	6	5	5	6	4	3	1	1	1	1	2	1	2	3
4	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	2	1	1	1	0	1	0	1	0	1
5	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	1	0	0	1	1	1	1	1	0
6	1	1	0	1	1	1	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	1
7	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
8	1	1	1	1	1	1	1	1	1	1	6	5	4	3	2	1	1	1	1	1	1	1	1	1	2
9	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	2	2	2	2	2	2	1
10	2	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2	3	2	3	3	2
11	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	2	2	2	1	1	1	2
12	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	3	3	3	1
13	3	3	3	4	4	4	6	6	6	7	6	6	5	4	3	3	3	2	2	2	2	2	2	1	4
14	2	1	1	1	2	2	2	2	3	2	2	1	1	1	1	1	1	2	2	2	3	2	2	3	2
15	2	2	2	2	2	2	3	4	4	5	5	5	5	5	4	3	4	3	3	3	4	3	5	0	3
16	0	0	0	0	0	0	0	0	0	0	1	23	31	3	8	12	19	18	16	13	13	58	29	22	11
17	30	19	16	15	14	16	16	19	22	24	26	41	40	37	32	M	M	1	0	1	4	3	1	1	17
18	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	M	M	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	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	2	1	1	1	2	1	1
21	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	2	11	4	4	10	5	2
22	9	7	6	5	2	6	15	37	50	44	64	62	70	66	43	50	50	12	11	4	2	4	5	4	26
23	2	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	3	5	5	1
24	5	3	2	2	1	1	1	1	2	1	1	1	0	1	0	0	0	1	0	0	1	0	1	0	1
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
28	1	1	1	1	1	0	0	0	4	3	16	12	6	5	2	2	2	1	0	0	1	0	0	0	2
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	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		
2	1	3	1	5	12	31	48	0	-	70	0	-	26	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 : NITROGEN DIOXIDE

MONTH: JANUARY

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	2	0	1	2	2	5	6	7	7	7	7	4	8	7	8	6	5	4	3	3	3	3	4
2	0	0	0	0	0	0	3	10	8	5	3	1	0	2	4	6	8	6	3	0	2	1	0	0	3
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	1	3	4	2	9	3	17	21	20	9	5	8	5	1	0	5
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
8	0	1	0	0	0	3	2	10	16	10	30	39	29	26	25	28	26	23	24	20	19	16	11	5	15
9	1	0	0	0	0	0	0	2	6	11	14	20	17	25	42	28	40	39	31	22	13	3	0	3	13
10	1	0	0	0	0	0	0	2	7	25	9	6	7	24	32	48	40	23	11	5	3	2	2	6	11
11	4	5	2	1	0	1	2	6	9	10	9	6	5	5	9	10	10	14	16	12	8	6	6	5	7
12	4	3	2	2	2	3	3	7	9	9	7	6	6	6	6	7	11	12	6	3	5	9	10	8	6
13	6	7	6	6	6	6	9	10	13	12	10	10	9	6	6	8	6	7	7	7	6	5	4	4	7
14	3	3	3	3	3	3	3	4	5	6	3	4	4	3	2	4	5	8	8	8	6	6	5	4	4
15	4	5	3	3	3	3	8	13	10	8	8	8	8	7	7	6	10	8	4	5	9	6	8	5	7
16	6	5	3	3	1	1	1	3	7	11	13	47	59	22	31	30	38	46	46	61	105	102	97	76	34
17	102	90	74	80	82	95	111	107	96	131	144	148	141	128	103	M	M	15	3	4	9	10	7	9	77
18	7	5	4	9	7	5	6	17	11	8	8	7	6	8	9	M	M	13	9	9	8	6	6	12	8
19	12	11	11	11	12	12	12	21	25	21	17	15	14	16	17	17	18	22	19	16	12	11	13	10	15
20	10	10	10	11	12	14	13	14	14	16	11	10	9	11	11	12	14	18	18	15	16	15	15	12	13
21	9	9	10	12	11	12	10	12	11	12	11	11	11	11	13	15	19	20	30	55	45	50	48	39	20
22	40	48	61	58	36	42	65	82	87	80	96	95	98	96	83	100	97	46	46	19	13	19	17	11	60
23	8	5	7	7	7	6	7	9	8	8	7	6	8	10	11	13	17	20	12	8	7	13	14	14	10
24	14	M	9	7	6	6	7	8	9	6	6	7	6	7	8	10	10	12	11	9	9	7	8	12	8
25	11	11	10	9	10	10	11	10	10	11	12	11	11	12	12	14	18	18	15	15	13	13	12	13	12
26	13	13	13	12	12	12	14	25	22	18	21	22	21	17	21	17	17	17	14	14	14	13	15	9	16
27	7	3	4	4	5	10	15	14	13	10	7	6	4	4	4	4	7	6	6	9	8	6	5	11	7
28	13	9	11	10	9	8	7	8	21	26	44	62	57	58	55	60	66	61	57	51	50	46	30	36	36
29	35	26	16	11	11	10	12	19	31	37	43	41	29	34	30	35	36	27	31	33	12	11	10	14	25
30	20	20	11	10	10	10	13	15	15	15	15	15	15	17	19	19	23	23	22	24	17	16	17	13	17
31	13	12	13	14	14	15	18	32	40	45	36	35	34	39	31	33	42	38	37	30	26	23	18	20	27

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	9	15	9	37	58	96	104	0	-	148	0	-	77	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: JANUARY

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	0	0	0	0	0	0	0	
3	0	0	1	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	0	0	1	0	1	1	1	
4	0	0	1	0	1	0	1	1	1	0	0	0	0	1	1	1	1	1	1	0	1	1	1	1	1	1	
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7	0	1	1	1	1	1	0	0	0	0	0	1	0	1	1	1	1	1	1	0	1	0	1	0	1	1	
8	0	0	1	1	1	1	1	1	1	2	2	3	3	3	2	2	1	2	1	1	1	0	0	1	1	1	
9	1	1	1	1	1	1	1	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	0	0	0	0	0	0	0	0	1	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	0	
14	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	1	0
15	0	0	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	
16	0	0	0	0	0	0	1	0	0	0	1	2	2	3	3	2	2	1	1	1	1	1	1	1	1	1	
17	1	1	1	1	1	1	1	2	2	3	3	3	4	5	9	6	6	3	1	1	1	1	1	1	1	2	
18	1	1	1	1	1	1	1	1	0	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	1	0	1	
22	1	1	2	2	2	2	2	2	2	2	3	4	5	7	8	4	2	2	2	1	1	1	2	1	2	3	
23	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	0	
24	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	
25	1	1	1	1	0	1	1	0	1	1	0	0	1	0	1	1	1	0	1	0	0	1	1	1	1	1	
26	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	
27	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	
28	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	
29	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	
31	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	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	
1	1	1	1	1	1	2	3	4	0	-	9	0	-	3	1	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :  
D: DYNAMIC CALIBRATION  
T: TELEMETRY/DATALOGGR FAULT  
M: MAINTENANCE OR ANALYZER FAULT  
P: POWER FAILURE
2. BRACKETED READINGS EXCEED 24-HR OBJECTIVE 125

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

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	0	0	0	0	0	0	0	0	1	0	2	2	1	0	2	4	4	4	3	3	2	1	0	1	1
2	0	0	0	0	0	0	0	3	4	4	7	8	8	8	9	20	16	7	3	2	1	1	0	1	4
3	0	0	0	0	0	0	0	0	0	2	3	2	1	0	0	2	2	4	1	1	0	0	0	0	1
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	4	0	1	1	0	0	0	1	1
5	0	0	0	0	0	0	0	0	4	9	16	14	19	17	6	6	9	7	7	4	3	1	0	1	5
6	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	2	1	1	1	1	0	0	1	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
8	0	0	0	0	0	1	6	0	0	1	5	5	4	4	1	1	1	1	0	0	0	0	0	0	1
9	0	0	0	0	0	0	0	0	1	3	4	5	5	7	8	9	10	12	11	12	10	9	6	8	5
10	4	M	2	0	0	0	0	2	5	11	13	12	11	9	9	10	10	9	10	9	9	5	4	8	7
11	6	5	4	4	3	2	3	7	11	14	16	13	12	12	12	10	9	9	8	8	9	8	6	3	8
12	2	0	0	0	0	0	0	2	4	6	7	9	8	6	5	5	7	6	4	2	1	2	3	5	4
13	3	2	1	0	0	0	0	2	3	6	6	6	5	4	3	3	3	4	3	3	2	2	2	1	3
14	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	2	11	5	2	1	3	2	2	1
15	0	0	0	0	0	0	0	0	0	7	7	12	8	9	7	4	16	3	3	3	2	1	0	1	3
16	0	0	0	0	0	0	0	0	0	3	8	14	16	30	31	26	25	16	11	10	10	9	8	9	9
17	6	5	5	6	10	15	20	25	24	39	49	44	72	77	83	63	66	48	28	16	12	9	7	8	31
18	4	3	2	1	1	1	3	11	14	15	21	21	11	10	10	12	16	11	7	6	6	5	4	7	8
19	7	6	6	7	3	1	1	10	13	13	6	8	10	7	7	6	6	6	6	7	6	9	6	6	7
20	2	0	0	0	0	0	1	0	0	2	2	3	3	1	2	2	5	7	5	5	1	0	3	3	2
21	0	0	0	0	0	0	0	0	0	0	0	2	3	2	3	4	8	3	2	4	5	3	4	6	2
22	4	3	3	3	2	2	2	2	2	10	17	22	46	56	75	62	35	53	30	17	14	14	12	14	21
23	12	10	5	2	1	1	2	3	8	8	7	6	8	24	20	20	17	8	9	6	4	3	3	3	8
24	0	M	1	0	0	0	0	0	1	2	2	1	2	2	4	3	2	2	2	0	0	0	1	1	1
25	0	0	0	0	0	0	0	1	2	3	2	2	3	2	2	3	3	2	3	0	0	0	0	1	1
26	0	0	0	0	0	0	0	0	0	1	3	5	4	5	8	10	7	6	1	0	0	0	0	1	2
27	0	0	0	0	0	0	0	0	0	1	2	2	0	0	1	1	1	9	4	2	1	0	0	2	1
28	0	0	0	1	0	0	0	0	0	1	2	4	5	7	7	10	10	8	7	4	6	3	3	6	4
29	3	1	0	0	0	0	0	0	2	4	5	4	5	6	7	6	6	6	5	5	5	4	4	5	3
30	4	1	0	0	0	0	0	0	0	3	2	2	2	2	1	1	2	3	2	2	2	1	0	2	1
31	0	1	1	1	1	2	1	2	3	3	4	5	5	7	7	9	8	8	8	7	7	6	5	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	
4	2	5	2	11	16	32	55	0	-	83	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: JANUARY

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	14	14	14	13	14	15	12	14	14	15	16	15	15	15	19	17	17	17	17	15	15	13	14	15	15
2	14	15	15	15	15	13	14	15	18	17	17	16	14	15	15	15	14	15	15	14	15	15	14	15	15
3	14	15	15	14	15	14	14	15	15	14	16	16	16	15	16	16	16	16	15	14	13	14	13	14	15
4	13	13	13	13	13	13	14	12	13	13	13	13	15	14	14	13	12	12	13	12	12	13	12	12	13
5	11	13	13	13	14	22	22	34	24	28	25	20	26	28	20	31	27	29	20	15	14	13	13	13	20
6	13	13	12	12	12	12	11	11	12	12	12	11	12	12	12	12	11	12	12	12	12	11	11	12	12
7	11	11	11	12	12	12	11	11	12	12	13	12	12	12	12	11	12	12	11	11	13	T	T	T	12
8	T	T	T	T	T	T	T	T	T	T	20	19	16	15	14	15	14	14	13	12	12	12	12	12	12
9	11	11	12	11	13	13	14	14	14	14	13	13	13	13	13	13	14	14	14	14	14	14	15	15	13
10	15	15	15	15	15	15	14	14	15	17	16	13	13	13	14	13	14	13	13	14	14	14	15	16	14
11	15	15	15	14	14	15	14	14	20	19	15	14	14	14	14	T	T	T	T	T	T	T	T	T	T
12	T	T	T	T	T	T	T	T	T	T	17	13	13	13	13	14	14	13	13	13	13	14	15	15	16
13	13	13	14	13	15	15	15	15	20	19	18	17	17	16	15	16	14	14	13	13	13	14	14	14	15
14	13	14	14	12	13	14	14	14	18	14	13	13	12	13	13	12	13	12	14	17	50	24	15	14	16
15	15	14	14	13	13	13	15	21	29	25	25	24	24	33	20	17	16	17	16	15	14	15	15	13	18
16	14	14	14	12	14	13	14	16	22	35	43	31	31	35	35	31	38	36	58	39	38	54	46	29	30
17	32	33	36	37	38	46	49	54	60	55	41	40	32	53	93	87	61	45	16	18	26	37	23	20	43
18	22	19	18	19	24	22	30	42	43	52	52	41	21	24	20	20	28	26	28	21	24	24	23	32	28
19	24	36	34	36	26	21	25	19	17	16	14	19	27	30	26	20	15	18	19	18	16	16	17	16	22
20	14	15	14	14	14	14	14	13	14	16	15	14	14	14	14	17	14	14	14	14	14	14	14	15	14
21	13	13	12	14	14	13	13	15	13	13	14	14	14	14	15	15	20	28	23	45	42	25	32	32	19
22	28	30	40	38	29	25	24	37	50	76	71	47	52	50	52	60	48	49	48	39	35	40	39	63	45
23	77	44	23	17	16	16	16	15	16	24	20	16	16	25	31	29	22	19	22	25	21	18	18	17	23
24	16	16	16	14	15	14	13	14	14	13	14	13	12	13	13	14	13	13	13	13	13	13	14	12	14
25	12	13	13	13	11	13	13	12	13	13	15	16	13	14	14	14	13	15	15	14	14	14	15	14	14
26	13	14	14	15	15	15	15	18	26	20	15	15	16	16	15	15	14	15	14	15	13	13	12	15	15
27	14	13	13	13	13	14	14	14	15	15	15	15	15	14	15	13	15	14	14	15	14	13	14	16	14
28	15	14	15	22	17	15	16	15	17	19	23	19	23	19	16	22	19	18	18	16	17	14	14	16	17
29	13	12	13	13	13	13	13	14	16	17	15	15	15	15	15	14	14	14	13	14	14	15	16	15	14
30	14	13	14	14	14	14	15	15	16	15	15	16	16	15	16	16	15	15	15	15	14	14	15	15	15
31	14	14	14	14	14	14	14	15	16	16	16	16	15	15	16	19	16	15	15	15	15	15	15	16	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
17	15	18	15	31	41	52	60	11	-	93	12	-	45	1	95	0

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

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

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	14	15	13	13	12	12	13	20	22	23	23	16	18	18	21	21	28	36	59	32	22	21	18	17	21
2	17	13	11	10	11	13	20	39	66	54	36	28	17	28	34	27	18	37	33	24	25	23	13	15	26
3	10	8	8	6	7	8	9	13	16	17	15	17	15	18	16	19	28	28	31	16	15	15	14	11	15
4	8	7	6	6	6	6	8	11	15	19	20	17	18	18	25	24	22	25	25	25	20	23	22	18	16
5	15	18	21	21	18	42	44	60	50	53	54	49	51	48	43	72	74	79	71	43	30	27	23	19	43
6	17	16	15	8	8	8	8	12	16	21	20	21	21	22	24	23	24	23	20	17	17	17	15	16	17
7	14	13	14	12	11	9	6	7	7	6	6	7	7	9	10	10	9	10	13	13	33	T	T	T	11
8	T	T	T	T	T	T	T	T	T	T	T	41	39	33	31	34	35	36	36	34	33	31	27	25	
9	17	14	13	10	8	12	21	32	46	50	48	58	59	60	58	56	59	72	67	63	52	43	42	31	41
10	26	20	11	11	8	10	18	37	61	49	37	36	42	48	64	62	54	68	71	62	40	32	33	35	39
11	30	22	15	11	8	9	16	26	33	36	31	32	28	31	26	T	T	T	T	T	T	T	T	T	
12	T	T	T	T	T	T	T	T	T	T	T	31	33	30	26	28	37	38	15	22	41	31	38	45	
13	19	13	13	12	12	12	20	25	31	29	22	19	17	13	16	18	20	18	24	23	18	19	14	11	18
14	11	M	9	8	9	8	9	12	17	11	14	14	9	12	14	14	17	22	35	55	109	62	19	17	22
15	11	10	11	10	9	13	28	50	65	53	51	46	37	41	25	22	33	41	83	48	43	29	17	13	33
16	17	14	7	10	10	13	24	44	48	54	72	78	83	70	59	53	63	83	109	106	114	116	122	101	61
17	91	87	82	105	132	160	174	185	185	186	166	154	147	171	190	186	184	140	37	26	51	124	45	27	126
18	29	16	19	29	45	40	77	93	75	102	89	70	41	41	31	35	60	65	90	61	67	50	58	83	57
19	65	79	84	88	52	28	66	70	67	71	65	79	86	83	85	73	60	77	70	60	43	37	54	28	65
20	22	22	10	11	11	12	17	21	29	24	14	18	18	18	20	30	27	30	45	35	25	22	20	23	22
21	15	10	10	11	10	11	15	10	14	15	16	14	14	14	14	25	31	40	60	105	111	72	101	105	35
22	101	98	100	102	102	80	57	98	92	109	118	100	104	91	96	118	94	125	148	147	158	163	99	134	110
23	128	103	26	12	9	10	12	22	35	43	37	30	25	46	39	41	44	47	58	64	69	27	14	16	40
24	15	12	11	9	7	7	10	13	15	20	19	17	18	19	21	20	15	22	21	13	12	11	10	10	14
25	9	8	7	7	6	6	10	12	14	20	26	22	16	16	23	20	30	28	26	34	24	24	31	15	18
26	16	15	13	10	9	12	23	46	59	59	38	36	32	34	39	45	33	37	30	21	15	14	16	23	28
27	22	14	12	12	12	18	18	23	24	28	24	19	16	19	18	16	24	27	25	23	23	29	24	24	21
28	19	M	21	44	16	11	22	31	68	69	67	53	50	47	50	61	53	53	56	52	51	46	46	41	45
29	29	32	23	15	14	14	19	40	50	55	45	42	44	43	47	49	51	58	55	53	56	55	51	49	41
30	38	35	24	22	21	32	35	40	41	33	29	33	32	34	40	47	49	53	52	54	34	26	29	46	37
31	43	41	41	34	34	36	39	40	37	38	40	40	38	41	41	43	43	46	48	46	43	35	37	29	40

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		
28	27	38	27	78	104	147	171	6	-	190	11	-	126	2	95	0

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

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

STATION : AP LEI CHAU  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	4	5	4	4	4	4	4	4	4	5	7	6	6	7	7	7	6	6	5	5	4	5	4	5	5
2	4	4	5	4	4	4	4	5	5	6	6	5	5	4	5	5	5	6	4	4	5	5	4	4	5
3	4	4	4	4	3	3	4	3	3	4	5	7	5	4	6	7	6	5	4	3	3	4	4	2	4
4	3	2	3	3	3	2	2	2	3	3	2	4	4	4	5	4	3	3	2	1	2	2	2	3	3
5	3	2	2	3	3	3	5	8	17	4	3	3	4	5	8	25	4	4	4	5	5	4	3	4	5
6	3	3	3	3	4	3	3	3	4	4	3	3	3	3	3	3	3	3	3	4	3	3	4	1	3
7	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
8	2	6	10	27	16	39	9	6	15	16	24	13	10	8	6	6	7	6	5	5	4	4	3	11	
9	3	4	5	5	5	5	5	6	7	5	5	3	3	4	4	2	4	3	4	4	6	5	5	5	4
10	5	6	6	5	5	4	4	4	5	5	2	2	1	2	1	2	2	2	1	2	3	2	1	6	3
11	6	5	5	5	5	3	4	4	5	4	3	4	4	3	3	3	4	3	4	3	3	4	2	3	4
12	4	4	4	1	3	5	4	5	5	4	3	2	3	3	2	3	3	3	2	3	4	5	6	5	4
13	4	5	5	6	8	8	8	8	10	10	8	8	7	6	6	6	6	5	4	5	5	5	5	5	6
14	5	5	5	4	5	7	6	7	7	3	2	4	3	3	3	3	4	4	6	5	5	5	4	5	5
15	3	1	5	5	5	5	6	7	10	10	8	7	8	8	7	7	8	7	7	6	6	7	8	6	7
16	5	5	4	5	4	4	3	4	8	45	66	31	35	25	26	24	31	38	28	42	46	45	37	26	24
17	36	22	29	35	29	32	32	37	52	74	24	26	37	65	113	71	63	25	11	7	12	14	9	11	36
18	10	9	7	8	7	6	9	39	22	16	11	M	13	13	14	13	12	12	11	10	10	10	10	5	12
19	4	4	4	3	3	2	6	3	2	1	1	1	0	1	1	1	1	2	1	0	0	0	1	1	2
20	1	2	12	4	3	4	4	4	3	3	2	2	3	4	4	4	4	4	4	5	4	5	4	2	4
21	1	2	1	3	3	3	4	3	3	2	2	3	4	4	5	4	4	10	10	110	36	21	55	42	14
22	45	28	32	59	39	30	34	103	84	99	96	53	73	72	49	47	69	59	26	15	12	21	8	7	48
23	5	4	3	3	3	3	2	3	3	3	5	6	5	4	5	7	4	12	4	5	4	5	6	8	5
24	6	6	4	3	4	3	3	3	4	2	2	2	3	3	3	4	3	3	3	3	2	2	2	2	3
25	2	3	3	2	3	3	3	2	2	2	2	2	2	3	4	4	4	5	5	4	4	3	4	3	3
26	4	5	5	5	4	2	3	3	3	3	5	5	6	6	6	5	3	4	3	3	2	3	3	3	4
27	3	3	3	3	3	4	4	4	3	4	4	4	3	3	2	2	3	3	2	3	2	2	2	2	3
28	3	2	2	2	3	2	4	9	8	20	29	13	9	11	5	10	9	6	6	6	6	5	3	3	7
29	1	2	3	3	3	3	3	3	4	4	4	4	2	4	3	3	3	3	3	4	4	4	4	2	3
30	2	2	2	3	2	5	3	2	3	2	3	3	3	3	3	3	3	3	3	4	3	3	3	1	3
31	1	1	0	3	3	3	3	5	8	5	4	5	3	3	4	6	2	2	2	2	3	2	2	3	3

MONTHLY STATISTICS:

GEOM	ARITH ----- PERCENTILES -----							----- RANGE -----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
5	4	8	4	13	35	59	73	0	-	113	0	-	48	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: JANUARY

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	11	14	14	12	10	10	11	18	13	15	18	15	11	12	11	12	13	17	16	15	15	13	12	12	13
2	9	10	10	8	10	13	24	19	21	17	13	13	12	10	16	22	32	34	16	16	13	15	13	13	16
3	12	11	8	7	7	10	13	14	10	8	7	7	7	7	8	10	21	21	24	8	6	7	7	8	10
4	7	5	5	5	5	6	6	8	10	12	10	9	6	6	13	14	14	14	10	8	9	9	12	15	9
5	11	10	10	11	12	11	18	41	45	21	20	13	21	32	52	62	27	49	34	17	16	15	12	12	24
6	7	7	5	5	4	4	4	4	7	10	10	12	12	13	12	14	14	13	13	13	12	10	11	10	
7	10	10	11	8	8	6	4	5	4	4	5	4	4	4	5	5	6	5	5	6	10	11	8	12	7
8	16	22	32	51	45	51	20	27	50	44	56	37	33	31	31	32	36	37	36	36	27	29	29	18	34
9	13	10	6	4	3	8	15	24	35	44	52	58	56	71	83	75	68	71	76	55	63	41	32	27	41
10	20	13	9	7	5	7	19	36	45	51	48	43	42	61	64	70	67	69	55	51	29	26	27	26	37
11	20	13	10	4	3	5	13	24	36	33	26	21	13	12	27	28	27	40	46	55	35	29	24	20	24
12	17	12	6	7	7	13	22	40	42	36	31	12	11	13	15	16	18	6	7	21	25	31	34	24	19
13	14	9	8	6	6	8	12	24	21	16	9	11	7	5	6	7	6	11	9	7	6	4	3	4	9
14	4	4	5	4	4	6	4	6	9	8	6	5	7	5	4	5	2	5	15	33	31	36	24	22	11
15	27	19	9	9	10	10	18	21	33	42	21	16	11	9	9	8	19	20	14	21	22	13	14	18	17
16	17	10	12	7	6	8	14	39	52	49	70	82	83	35	46	40	41	71	50	112	114	117	118	111	54
17	95	83	102	135	124	138	126	167	189	198	136	145	181	172	157	126	103	53	31	20	17	21	21	24	107
18	19	12	11	15	12	16	39	76	55	60	29	M	8	14	12	16	20	19	22	16	10	10	9	14	22
19	15	12	11	14	15	15	32	41	28	26	24	20	22	31	24	29	25	25	24	16	11	10	9	10	20
20	10	15	38	15	11	14	14	15	14	16	10	8	7	8	8	10	12	15	15	15	14	16	16	13	14
21	9	10	9	11	11	11	11	10	13	14	11	11	11	10	12	13	18	30	68	127	87	83	111	109	34
22	93	94	99	114	112	113	101	116	115	122	124	105	94	92	82	89	111	84	49	30	44	111	40	34	90
23	24	13	12	13	13	15	16	18	19	16	14	17	22	15	13	30	24	39	24	23	20	14	16	17	19
24	18	16	14	13	11	12	11	9	10	11	11	10	10	11	13	10	11	15	12	10	10	9	10	10	12
25	10	8	7	7	7	7	10	10	10	11	12	9	7	8	9	9	12	12	13	13	11	10	11	9	10
26	11	12	12	10	10	12	14	18	24	24	20	15	14	14	16	20	20	21	14	11	9	9	10	18	15
27	16	10	10	11	12	20	22	24	23	22	15	14	12	14	17	18	21	24	31	35	29	25	16	17	19
28	13	16	12	12	10	11	17	33	41	53	70	61	52	53	46	61	58	58	59	58	55	53	50	43	41
29	32	29	24	17	14	11	20	30	49	55	56	53	45	53	55	56	59	63	59	57	52	50	52	48	43
30	44	32	23	19	17	30	33	36	39	31	28	26	27	30	35	36	41	41	38	38	31	28	28	25	32
31	28	29	28	31	27	31	38	44	41	44	45	50	40	40	41	53	50	56	55	48	41	24	24	26	39

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		
19	16	27	16	58	94	122	137	2	-	198	7	-	107	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: JANUARY

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	5	5	4	5	4	4	6	4	7	8	9	8	6	8	8	5	6	6	7	5	6	6	5	6
2	6	5	5	5	5	5	7	7	10	8	12	12	9	6	7	7	7	8	9	5	6	12	9	5	7
3	8	6	7	5	4	5	4	5	6	6	7	9	M	11	9	14	13	8	4	3	9	8	4	3	7
4	3	4	3	3	3	3	3	6	11	4	4	5	8	9	8	8	7	4	4	5	4	4	3	4	5
5	4	4	5	4	3	3	4	6	8	17	19	10	8	13	7	8	5	3	3	3	4	4	3	3	6
6	2	3	2	2	2	1	1	1	4	5	5	6	5	7	15	7	6	4	4	3	2	1	1	1	4
7	2	1	3	2	1	2	1	1	1	1	2	2	3	4	4	3	2	2	4	4	3	2	2	3	2
8	3	3	4	4	5	6	5	6	5	8	12	10	8	7	4	4	2	2	2	1	0	0	0	0	4
9	0	0	0	1	1	1	2	3	3	3	1	0	0	1	1	1	1	3	3	3	3	4	4	4	2
10	5	4	5	5	4	3	3	3	2	3	3	3	3	2	2	2	3	4	4	4	4	5	6	5	4
11	5	4	4	4	4	4	3	4	3	5	4	4	4	4	4	3	5	4	3	4	4	3	3	4	4
12	4	3	3	3	4	3	3	4	3	3	3	4	4	4	5	4	3	4	3	3	4	4	3	6	4
13	5	4	4	3	5	5	5	5	8	8	9	8	7	6	6	6	7	5	4	4	4	4	4	4	5
14	6	4	3	3	4	5	3	4	6	6	7	6	5	5	4	5	3	4	5	6	5	5	3	3	5
15	4	3	4	3	3	4	5	4	7	11	9	11	9	10	8	6	6	5	6	5	7	6	5	4	6
16	4	4	6	4	4	3	3	4	6	11	10	8	9	10	23	21	14	9	7	5	5	5	7	6	8
17	7	7	7	7	15	29	37	45	46	38	26	24	19	25	33	33	32	37	45	27	16	14	15	9	25
18	8	8	4	3	4	4	5	6	7	15	20	13	11	9	9	9	9	7	5	5	6	6	4	5	8
19	5	4	3	6	7	4	4	4	6	5	5	6	6	8	8	4	4	2	2	2	3	3	4	3	5
20	4	4	3	4	3	4	5	5	6	6	9	5	5	3	4	4	4	4	3	4	4	6	5	5	5
21	5	6	4	3	3	2	3	4	5	4	5	4	6	6	5	5	5	4	4	5	6	6	8	11	5
22	12	9	9	8	25	21	18	12	20	26	38	35	41	25	26	22	25	37	25	21	21	15	14	11	22
23	12	11	7	6	5	5	5	4	5	8	8	8	8	7	16	9	8	6	5	4	5	5	9	6	7
24	7	7	6	6	3	3	5	3	6	7	4	3	4	5	5	5	3	3	2	1	2	2	3	5	4
25	4	2	3	3	1	2	1	1	1	1	3	7	6	7	6	4	4	5	5	5	4	3	3	6	4
26	6	4	4	5	5	6	9	5	8	7	4	5	6	6	5	5	3	3	3	3	3	2	4	5	5
27	3	3	2	2	3	5	4	3	3	5	6	5	6	11	4	4	7	4	6	5	5	3	4	5	5
28	8	5	6	6	4	5	5	6	13	12	8	6	10	16	19	14	9	9	7	5	5	4	2	2	8
29	2	1	0	0	0	0	0	0	1	1	1	1	1	2	1	1	1	1	0	0	0	0	0	0	1
30	0	0	0	0	0	0	0	0	1	2	2	3	2	2	2	3	3	2	2	2	2	2	2	1	1
31	1	1	1	1	0	0	0	0	1	1	1	1	1	M	M	0	1	0	0	0	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		
5	4	6	4	10	16	26	37	0	-	46	1	-	25	2	100	0

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

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

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	26	21	21	20	27	13	17	28	19	24	26	25	18	16	18	19	14	21	26	24	19	21	21	17	21
2	17	14	18	17	37	54	58	92	56	19	25	21	17	11	16	16	21	29	32	18	19	35	51	26	30
3	42	36	70	16	10	13	13	14	17	37	21	24	M	32	18	41	41	21	12	12	37	38	28	12	26
4	14	11	5	8	8	13	26	42	37	19	23	19	27	37	40	41	35	30	25	29	24	17	16	46	25
5	59	36	62	25	23	52	68	80	58	73	86	52	48	51	35	38	50	40	48	41	33	28	27	20	47
6	25	26	17	23	24	21	22	33	45	41	39	40	38	47	53	47	52	45	42	50	50	32	29	37	37
7	39	29	49	35	31	39	17	29	24	22	11	13	23	34	25	24	21	21	34	36	39	34	72	81	33
8	75	73	67	62	57	68	65	64	67	61	74	52	44	45	39	39	39	45	44	44	46	40	32	25	53
9	27	15	13	11	12	14	19	22	27	33	31	33	35	40	42	57	64	75	66	50	40	40	33	23	34
10	22	M	22	16	15	18	26	35	30	46	35	39	43	48	48	41	61	59	60	62	44	34	30	32	38
11	25	23	17	15	14	18	21	34	38	47	37	34	29	32	33	34	53	57	53	46	36	35	37	24	33
12	22	16	17	14	14	23	22	36	31	41	31	38	42	45	22	35	40	17	10	10	17	35	94	101	32
13	61	18	15	16	18	19	20	45	58	41	25	19	13	10	13	20	23	21	18	21	23	20	17	26	24
14	24	15	14	11	21	29	11	21	42	40	40	44	39	19	10	9	9	13	19	21	22	29	56	102	28
15	115	103	80	62	37	86	96	44	34	42	19	37	23	18	14	11	18	20	26	15	26	66	121	85	50
16	87	53	84	41	37	21	36	56	64	82	66	50	46	48	104	94	46	29	27	90	120	84	127	117	67
17	117	111	104	109	158	164	171	171	148	150	125	152	143	176	228	189	171	138	146	209	73	83	86	120	143
18	31	27	16	24	32	54	75	79	69	93	72	30	19	15	19	24	22	21	15	22	92	73	21	32	41
19	26	19	12	44	54	61	72	53	105	71	62	79	72	59	53	18	16	34	22	18	55	81	100	38	51
20	23	47	35	26	12	15	20	21	27	26	36	17	21	7	8	7	15	23	14	19	17	27	59	122	27
21	124	99	44	11	11	11	16	16	19	18	20	22	31	15	11	17	20	21	33	32	56	88	77	80	37
22	84	78	93	93	120	118	115	95	103	87	71	72	69	44	60	63	89	118	75	197	157	102	53	82	93
23	84	85	20	13	23	25	25	20	23	27	21	23	37	24	36	23	25	30	31	20	20	15	28	14	29
24	17	M	22	25	11	13	29	14	21	26	23	19	27	27	27	24	13	24	20	11	17	17	15	37	21
25	23	17	27	31	9	20	12	13	12	12	17	31	26	29	23	10	11	13	16	17	17	14	12	20	18
26	21	31	36	26	20	22	30	28	29	26	13	14	12	13	18	26	20	21	16	18	21	15	38	22	
27	31	28	19	14	18	46	36	26	25	30	20	14	14	24	19	24	25	35	53	107	83	27	22	67	34
28	51	20	42	33	25	62	61	71	89	83	68	71	83	89	84	68	65	65	63	60	57	54	53	50	61
29	48	38	31	23	24	19	21	28	39	44	41	44	48	60	47	51	57	56	40	35	34	36	39	35	39
30	36	30	24	20	23	28	28	31	35	46	43	46	44	46	49	56	59	63	65	67	66	64	59	54	45
31	50	44	44	45	44	39	36	38	39	35	35	36	37	M	M	28	29	32	30	32	30	30	26	28	36

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
33	31	41	31	82	103	144	168	5	-	228	18	-	143	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: FEBRUARY

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	0	0	1	1	1	1	1	1	2	2	1	2	1	2	1	0	0	1	2	2	2	3	1
2	2	2	2	1	1	2	1	1	2	3	2	2	3	3	2	2	1	1	1	2	1	1	1	1	2
3	1	2	3	3	3	2	2	2	2	3	3	3	3	2	2	2	2	3	4	4	5	4	4	4	3
4	5	5	5	5	5	5	5	5	5	5	5	8	6	6	4	4	4	5	5	6	4	4	5	4	5
5	4	4	4	4	4	4	4	4	4	5	5	6	6	5	5	6	5	4	4	4	4	4	4	3	4
6	4	4	4	3	3	3	4	12	22	7	4	4	4	4	4	3	2	2	2	3	3	3	4	4	5
7	3	3	3	3	2	2	2	3	4	4	4	5	5	4	5	7	9	5	3	2	4	4	4	4	4
8	4	4	4	4	3	4	4	3	6	4	3	2	1	2	1	2	0	0	0	0	1	1	1	1	2
9	1	0	1	1	2	2	1	1	2	2	2	3	2	2	1	1	0	0	1	3	2	1	0	0	1
10	0	0	0	0	0	0	0	0	0	3	3	2	15	7	17	26	23	14	12	9	8	2	1	1	6
11	0	0	0	1	1	2	2	3	4	5	3	4	5	5	12	9	9	6	12	10	5	2	0	1	4
12	1	2	1	1	1	1	2	2	2	3	2	2	2	2	7	8	6	8	10	8	8	6	6	7	4
13	6	3	3	2	2	2	2	3	3	3	M	M	4	5	4	3	3	4	2	2	2	3	4	3	3
14	2	2	2	2	1	1	1	2	2	2	2	1	1	0	1	1	3	2	0	0	0	0	0	1	1
15	0	0	0	0	0	0	0	0	0	0	M	8	7	4	7	11	10	14	9	7	8	8	1	2	4
16	1	1	1	1	2	15	5	4	5	5	9	6	2	6	7	6	7	7	7	5	5	5	4	3	5
17	3	3	3	3	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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	1	1	1	1	2	1	1	3	3	3	4	3	3	3	5	4	3	2	2	2	0	2
20	0	0	0	0	0	0	0	0	0	0	0	4	10	8	10	2	1	1	0	0	0	0	0	0	2
21	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	1	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	0	0	0	0	0	0	0	0	0	1	0	0	1	0
25	1	0	1	0	0	0	0	1	1	0	1	2	5	8	5	4	3	3	3	4	6	1	1	2	2
26	2	1	1	1	1	0	1	1	1	1	2	1	1	2	2	2	1	1	2	2	2	2	2	1	1
27	0	1	1	0	0	0	1	1	2	2	2	1	6	2	2	1	1	1	0	0	0	0	0	0	1
28	0	0	0	0	0	0	0	0	0	0	1	20	28	9	9	11	8	3	3	2	3	14	0	1	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		
3	2	2	2	6	8	12	15	0	-	28	0	-	6	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: FEBRUARY

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	25	15	7	12	8	10	16	41	39	34	64	67	52	47	49	67	66	49	63	36	31	29	25	21	36
2	15	11	6	3	9	10	20	32	52	62	43	29	41	33	34	31	42	48	49	48	32	27	25	31	31
3	23	15	11	10	8	9	13	30	39	50	50	55	49	46	46	55	56	67	70	62	54	41	36	34	39
4	32	22	21	18	16	19	27	40	32	41	45	50	51	52	42	43	54	51	55	50	43	34	37	41	38
5	33	24	16	14	12	14	18	33	61	56	56	46	45	39	48	50	57	55	46	68	57	49	43	22	40
6	20	14	9	9	6	7	18	43	73	54	39	29	28	24	26	24	28	48	63	59	61	34	21	18	31
7	12	M	4	4	3	4	9	25	57	60	43	36	46	27	46	64	71	88	76	54	72	59	48	57	42
8	50	44	32	25	23	28	37	60	65	52	25	19	16	25	21	19	16	17	10	8	5	6	6	13	26
9	12	8	8	8	7	7	9	18	32	46	46	46	35	M	M	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	M	M	M	M	M	M	M	M	M	M
11	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
12	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
13	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
14	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	51	44	22	31	13	14	9	7	11	
15	8	6	5	4	4	3	4	6	12	16	M	50	57	39	29	44	51	61	53	36	17	13	3	9	23
16	6	4	15	11	14	30	15	20	26	28	64	32	19	28	29	32	41	40	46	23	26	33	21	15	26
17	13	14	19	22	17	15	19	10	8	8	7	7	6	5	6	7	8	12	11	9	10	13	10	12	11
18	10	8	7	8	8	6	6	8	9	12	12	15	16	16	15	17	10	8	9	15	16	11	12	6	11
19	5	5	4	6	5	3	6	5	13	18	34	31	37	36	42	32	30	55	41	15	6	2	3	3	18
20	1	1	3	2	1	1	3	8	6	13	39	47	39	41	61	43	49	46	39	22	17	9	6	10	21
21	8	M	5	3	3	2	7	14	38	41	32	34	24	29	17	21	17	11	14	18	12	8	8	12	16
22	7	8	13	9	9	9	13	21	21	25	24	23	27	39	42	39	40	39	41	44	42	43	40	34	27
23	31	32	26	21	11	13	28	10	17	24	23	25	23	23	26	21	34	29	27	17	18	16	15	10	22
24	11	10	8	6	8	6	7	7	21	26	34	33	34	43	45	31	41	33	14	19	33	22	20	10	22
25	12	8	10	7	13	2	3	5	5	17	24	30	38	45	39	34	36	45	55	67	70	45	21	16	27
26	18	12	9	8	9	7	15	25	32	37	37	25	14	15	23	19	13	18	23	14	4	5	8	8	17
27	6	6	7	4	5	3	7	14	33	45	49	35	38	25	35	35	42	52	22	11	8	4	6	22	21
28	6	4	1	1	5	1	2	10	28	30	48	74	64	33	29	33	27	18	23	19	13	26	4	2	21

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
18	22	26	22	51	60	67	71	1	-	88	11	-	42	2	81	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: FEBRUARY

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	1	1	1	1	1	1	2	6	1	M	1	1	1	2	1	1	2	2	2	3	3	2
2	3	2	2	2	2	2	2	2	2	2	2	2	2	3	3	2	2	1	1	2	2	2	2	0	2
3	0	1	2	2	1	1	1	1	0	1	1	1	1	0	1	1	1	2	2	4	4	4	3	4	2
4	5	6	5	5	5	5	5	5	5	5	5	5	4	5	4	4	4	5	5	5	5	4	4	4	5
5	4	3	3	4	4	4	4	4	4	4	4	5	5	4	5	5	4	5	5	4	4	4	5	4	4
6	4	4	4	4	4	4	5	5	4	4	4	4	3	3	3	4	4	3	3	3	4	4	3	4	4
7	3	3	3	3	3	2	2	3	4	4	4	5	4	4	4	4	5	6	3	4	5	5	5	5	4
8	4	4	3	4	4	5	4	3	4	3	2	1	1	0	1	1	1	2	2	1	1	1	1	2	2
9	1	2	2	2	2	2	2	2	2	2	3	2	2	2	2	1	1	1	0	1	1	1	16	9	3
10	4	3	2	1	1	1	1	1	4	15	19	8	9	15	22	8	8	4	2	3	2	3	1	1	6
11	1	1	1	2	2	3	3	3	5	4	5	15	18	17	5	3	3	4	14	7	3	2	1	1	5
12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	5	11	21	13	7	7	5	4
13	5	1	1	1	1	1	1	2	2	2	2	2	2	1	2	2	1	1	1	1	1	1	2	5	2
14	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1
15	1	1	1	1	1	1	0	0	1	3	1	10	46	59	16	19	12	20	17	7	6	11	12	7	11
16	19	22	14	12	10	10	10	8	7	9	54	102	37	29	14	35	5	11	13	12	9	20	24	22	21
17	17	12	4	3	3	3	2	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	2	
18	1	0	1	2	1	1	1	1	1	1	1	1	1	1	2	1	1	2	3	4	3	1	0	0	1
19	0	0	0	1	1	0	0	0	8	35	24	13	5	1	0	0	0	0	0	0	0	0	0	0	4
20	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
25	0	0	0	0	0	0	0	0	4	12	15	37	33	16	9	5	14	4	1	0	0	0	0	0	6
26	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
27	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	M	M	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	3	20	23	19	37	32	46	31	23	48	31	14	23	22	6	2	2	16

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	1	4	1	9	18	31	37	0	-	102	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

STATION : CHUNG HOM KOK ZONE SUBSTATION  
POLLUTANT : NITROGEN DIOXIDE

MONTH: FEBRUARY

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	14	11	10	9	9	13	15	30	36	40	45	15	M	14	20	25	25	20	22	21	21	18	19	15	20
2	12	12	12	9	8	14	18	25	33	40	48	43	40	39	36	37	42	32	26	23	20	13	16	17	26
3	17	14	12	10	9	10	11	14	23	34	34	36	35	30	51	50	52	58	43	25	26	20	16	13	27
4	16	12	10	9	8	8	10	12	15	15	23	29	26	27	27	35	34	27	24	21	18	20	24	22	20
5	26	22	22	17	16	14	19	30	38	58	49	45	36	32	40	44	40	37	42	32	18	15	12	14	30
6	10	9	8	7	7	7	9	11	17	15	12	12	9	9	11	15	26	19	14	20	21	20	14	10	13
7	9	M	8	8	7	7	10	16	17	17	13	13	14	14	16	20	31	40	39	49	42	24	22	19	20
8	17	15	13	13	13	15	15	13	19	16	12	9	10	11	11	11	13	15	16	11	10	10	10	11	13
9	8	8	9	7	6	6	6	9	10	10	11	10	13	12	14	18	15	12	16	25	29	21	74	75	18
10	38	32	20	11	8	7	10	11	32	84	74	42	35	56	67	29	35	27	29	41	19	29	18	12	32
11	13	12	10	8	7	7	8	14	22	20	19	37	43	38	15	14	17	20	43	25	18	14	11	11	19
12	11	12	10	8	9	7	9	10	11	11	9	9	10	11	11	13	15	23	28	41	46	19	16	26	16
13	40	20	13	11	9	10	10	11	13	13	12	10	8	8	9	9	9	10	8	8	6	9	13	17	12
14	10	8	7	6	5	5	6	7	7	8	9	10	11	15	17	16	16	21	11	8	6	6	6	8	10
15	10	9	8	8	6	7	6	15	26	19	11	28	62	73	30	29	19	43	49	30	21	53	86	54	29
16	62	47	23	24	26	62	63	43	41	37	58	82	61	45	27	42	15	29	43	45	33	49	53	50	44
17	42	39	34	21	13	9	8	6	7	7	7	8	8	6	7	7	8	8	10	9	7	11	6	7	12
18	7	5	4	7	4	4	4	5	6	5	5	6	6	8	11	7	14	14	19	17	13	7	6	6	8
19	5	6	8	25	19	12	7	10	34	80	73	55	33	21	11	13	14	12	17	16	16	19	19	19	23
20	13	7	7	11	11	21	24	12	23	34	20	22	13	15	10	19	25	16	14	13	11	9	7	10	15
21	10	M	6	4	5	6	4	8	9	10	9	9	6	9	7	8	6	7	9	6	7	7	5	8	7
22	4	4	4	6	6	8	7	8	6	5	7	8	11	12	11	15	26	28	24	29	35	26	10	14	13
23	9	17	9	6	5	5	5	8	7	6	6	9	9	6	5	6	4	8	8	7	7	9	7	5	7
24	4	4	5	3	3	3	3	3	4	5	6	6	4	6	12	7	6	6	6	12	11	11	11	18	7
25	8	8	5	4	8	4	2	3	27	66	61	70	77	73	70	65	74	53	48	59	51	17	10	7	36
26	11	9	8	11	10	7	11	12	12	10	11	9	7	9	8	11	8	7	9	9	5	4	7	11	9
27	11	11	12	9	9	9	12	18	13	17	15	17	15	15	15	M	M	13	28	36	21	18	12	13	15
28	11	12	11	8	9	9	10	19	74	72	66	67	62	71	64	45	45	54	55	76	99	59	30	54	45

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	13	19	13	43	59	73	75	2	-	99	7	-	45	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: FEBRUARY

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	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	1	0
5	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	1
7	0	0	0	0	1	1	0	1	0	0	0	0	1	0	1	1	M	0	0	0	0	0	0	1	0
8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
9	0	0	0	0	1	0	1	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	2	0
10	2	3	4	3	4	4	4	3	3	3	3	4	4	4	4	3	3	2	2	2	2	1	1	1	3
11	1	1	1	1	1	1	0	0	1	0	1	1	1	2	1	1	1	1	1	1	1	1	0	1	1
12	1	1	1	1	1	1	1	1	1	1	1	0	1	2	2	1	1	1	1	0	1	1	1	0	1
13	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	0	0	0	1	0
14	1	1	1	1	1	1	1	1	1	2	2	1	1	1	7	9	7	7	8	9	7	9	8	6	4
15	9	6	6	5	5	6	5	5	11	12	13	12	13	17	12	9	9	8	7	5	5	5	5	5	8
16	5	4	5	5	5	5	4	4	5	10	25	8	9	8	7	10	M	6	6	5	5	5	6	7	7
17	6	5	5	5	6	7	5	3	3	2	2	2	3	2	3	3	2	3	2	2	3	3	3	3	3
18	5	6	7	6	6	9	8	7	6	4	3	5	9	11	17	43	29	8	7	5	6	10	16	25	11
19	20	15	18	16	11	28	31	27	25	28	21	15	31	25	22	19	11	14	26	28	18	12	11	13	20
20	6	6	4	4	4	3	4	5	11	28	22	28	30	28	8	7	23	15	12	10	12	21	34	19	14
21	13	12	19	21	19	17	17	22	23	26	17	26	13	7	4	4	3	3	3	3	3	2	2	3	12
22	2	3	3	3	3	2	2	3	2	2	2	2	2	2	3	3	3	2	3	3	3	4	3	3	3
23	3	3	3	3	3	5	3	7	12	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
24	3	3	3	3	3	3	4	11	13	22	10	8	15	8	8	14	18	21	20	12	15	14	11	19	11
25	19	21	16	9	5	5	4	9	16	15	19	14	13	9	9	7	8	4	5	5	4	7	3	3	10
26	3	5	3	3	3	2	3	2	3	2	2	2	2	2	2	2	3	2	3	3	2	2	2	3	3
27	3	4	4	4	3	3	3	7	8	11	9	10	13	12	7	6	7	9	8	34	14	5	4	3	8
28	12	11	9	7	7	5	5	12	23	10	20	34	17	14	18	19	17	17	16	16	20	12	8	18	14

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
4	2	5	2	15	21	28	29	0	-	43	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: FEBRUARY

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	2	1	0	0	0	0	0	1	5	10	12	14	15	17	14	14	16	12	10	9	8	5	6	6	7
2	4	2	0	0	0	0	1	3	7	8	11	12	13	12	12	11	10	10	9	8	7	6	5	7	7
3	5	3	1	0	0	0	0	2	5	8	10	11	11	10	10	10	10	10	10	11	10	8	6	5	7
4	3	1	0	0	0	0	0	0	1	2	4	4	6	7	6	5	5	5	5	5	5	4	4	6	3
5	4	2	1	0	0	0	0	2	5	8	8	8	10	11	11	10	10	10	9	9	9	8	6	7	6
6	5	4	2	1	0	0	1	5	8	10	11	9	8	9	8	8	9	11	10	9	10	10	9	6	7
7	5	M	2	1	1	0	1	4	5	9	12	9	9	9	23	35	M	28	17	13	12	11	10	6	10
8	5	3	3	2	1	0	0	3	5	8	9	4	3	3	4	4	3	3	3	1	0	0	0	1	3
9	0	0	0	0	0	0	0	2	3	7	10	14	13	21	24	32	26	20	19	21	18	19	20	23	12
10	20	21	23	47	27	25	23	23	21	21	23	36	54	42	69	61	39	45	36	29	25	23	21	22	32
11	20	19	17	11	7	6	5	5	5	6	8	13	13	12	27	28	21	15	11	10	10	11	11	9	13
12	8	4	3	2	2	1	1	2	5	9	11	13	12	27	19	13	7	9	6	7	9	12	13	14	9
13	13	10	8	4	1	0	0	1	3	6	9	4	9	6	2	1	1	2	3	1	3	1	0	2	4
14	1	1	0	0	0	0	1	4	6	11	19	21	18	17	45	36	35	31	32	33	35	35	33	31	19
15	32	22	17	10	10	16	15	10	23	26	28	28	31	32	37	35	36	34	39	30	28	19	16	8	24
16	19	18	12	9	9	12	9	9	10	16	24	18	21	23	20	27	M	17	23	17	20	24	24	29	18
17	34	32	23	23	29	32	24	3	2	1	2	2	0	0	1	1	3	5	4	3	7	6	8	10	
18	12	13	14	10	13	16	21	10	13	7	3	9	21	29	34	45	49	25	34	12	29	34	46	52	23
19	50	44	40	47	42	53	53	52	50	53	57	52	43	43	46	35	27	41	49	53	46	43	39	39	46
20	28	23	14	8	7	7	19	25	32	38	34	34	37	39	24	35	42	45	46	44	44	45	45	42	32
21	35	M	39	39	37	37	36	38	36	39	47	64	36	22	12	13	10	7	5	6	4	3	3	4	25
22	0	0	1	0	0	0	5	13	8	10	10	10	8	15	17	14	14	17	19	18	17	16	18	18	10
23	17	17	16	16	11	16	16	17	15	10	9	9	7	8	7	13	15	24	16	13	16	15	13	14	
24	9	3	1	2	1	4	12	34	41	46	33	27	33	25	24	49	50	62	66	41	37	49	51	67	32
25	65	63	47	31	16	30	37	40	43	52	50	41	39	42	41	33	33	24	31	33	33	36	13	8	37
26	7	14	2	7	2	3	9	12	12	19	17	12	9	6	8	8	9	11	17	14	5	2	2	2	9
27	0	0	0	0	0	1	7	22	23	26	27	26	22	15	12	13	24	29	54	59	43	30	27	31	20
28	42	42	29	19	18	17	29	42	45	42	47	48	44	35	35	29	44	41	47	54	53	33	27	34	37

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		
12	11	17	11	42	47	53	61	0	-	69	3	-	46	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: FEBRUARY

STATION : POK FU LAM  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	5	5	6	6	5	6	7	10	11	13	12	11	10	9	7	7	6	6	6	7	7	7	7	8
2	6	6	7	7	7	8	8	11	10	12	10	8	8	9	9	8	6	6	6	7	7	7	8	11	8
3	8	8	10	10	10	9	10	9	9	11	12	12	11	10	9	9	9	10	11	13	14	12	11	12	10
4	12	11	11	11	11	11	12	13	13	14	13	13	12	13	12	11	11	11	11	11	12	11	12	12	12
5	12	11	11	11	11	11	11	11	12	13	14	16	17	16	14	12	11	11	10	10	11	11	12	12	12
6	11	11	11	11	11	11	11	11	18	21	7	4	5	6	6	5	5	4	4	5	6	5	6	6	8
7	4	4	4	5	4	4	4	5	7	10	8	6	7	7	7	13	15	10	6	5	6	6	6	7	7
8	6	7	7	7	7	7	6	7	10	16	5	4	4	3	3	3	4	4	3	2	3	3	3	3	5
9	2	3	3	3	4	4	5	6	5	4	8	18	13	13	8	12	10	19	15	7	10	13	20	23	10
10	20	19	19	26	30	56	33	31	28	21	19	70	43	22	35	30	21	17	21	16	12	13	19	18	27
11	8	5	5	6	5	6	5	6	8	8	8	12	10	16	18	18	11	13	17	28	20	18	4	6	11
12	4	4	4	4	4	3	3	4	6	5	4	3	3	13	17	12	11	15	13	13	12	11	14	53	10
13	25	37	14	8	5	5	4	6	10	18	34	14	13	7	7	6	6	7	9	7	7	9	22	7	12
14	9	10	8	14	37	36	44	54	45	51	25	23	21	15	31	60	26	50	34	33	31	38	33	28	32
15	18	9	9	9	9	10	8	7	15	36	50	58	58	37	47	31	34	21	22	17	14	14	23	10	24
16	8	10	13	12	15	12	10	9	13	29	73	20	20	26	21	17	17	16	14	12	12	12	12	12	17
17	23	17	21	21	17	17	22	16	9	9	7	8	8	8	6	6	6	9	9	8	8	9	9	7	12
18	7	16	21	14	19	22	16	14	11	9	13	10	16	20	30	80	70	23	18	17	14	16	20	66	23
19	52	31	52	36	24	49	74	54	38	35	40	42	30	40	42	46	29	30	44	56	51	39	46	33	42
20	21	17	15	13	13	13	13	25	22	67	59	77	71	72	39	24	45	41	36	33	36	37	54	52	37
21	36	29	33	52	54	48	39	50	54	59	46	35	72	50	26	22	25	20	23	19	17	17	17	15	36
22	18	15	16	16	16	17	16	18	17	14	16	17	18	M	M	M	M	25	4	1	1	2	2	1	13
23	0	1	1	1	2	4	4	5	28	23	4	3	3	2	2	M	M	5	1	0	0	0	0	1	4
24	0	0	0	0	0	0	4	9	20	32	12	8	11	8	7	12	19	31	18	21	16	18	15	18	12
25	31	36	25	9	2	1	1	6	20	22	29	3	15	8	8	4	5	0	3	1	2	1	0	1	10
26	0	1	0	1	0	0	1	1	0	0	1	1	1	0	0	0	0	0	1	1	2	2	1	2	1
27	1	1	2	1	1	1	4	14	21	18	14	12	17	17	16	9	8	13	7	52	27	4	3	3	11
28	20	12	10	7	4	3	2	4	11	11	23	52	24	17	18	24	29	18	19	23	19	24	5	23	17

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	11	15	11	36	50	59	70	0	-	80	1	-	42	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: FEBRUARY

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	24	17	16	15	16	20	23	52	63	64	61	57	59	51	61	65	77	67	79	58	38	30	23	18	44
2	17	12	8	7	17	22	40	69	71	66	50	49	53	46	47	45	53	52	49	41	36	32	39	43	40
3	28	23	18	16	13	15	22	38	45	56	50	53	49	46	54	61	66	67	64	64	53	29	22	34	41
4	31	24	20	17	14	14	20	35	35	39	50	47	50	44	39	39	45	51	53	50	46	44	53	43	38
5	39	32	24	20	17	20	37	54	64	65	58	45	43	42	45	45	54	56	72	71	63	49	43	37	46
6	37	22	15	12	12	15	26	28	51	62	32	20	21	25	26	28	36	36	41	48	49	51	42	25	32
7	24	21	14	14	11	14	19	32	41	48	46	40	39	40	60	65	60	87	105	96	95	88	69	59	49
8	45	50	43	35	37	41	51	76	87	84	26	16	15	15	20	26	20	20	22	15	13	12	12	17	33
9	14	12	10	10	10	11	25	37	44	42	47	56	48	53	47	58	69	98	97	82	103	113	116	120	55
10	117	115	114	119	112	116	116	105	95	93	79	97	94	96	88	77	74	80	101	112	101	126	135	98	103
11	23	M	19	17	15	15	18	29	35	38	38	42	35	47	60	57	41	39	54	82	95	96	28	16	41
12	15	16	15	15	12	20	28	36	59	53	41	29	25	49	54	37	34	41	58	65	89	102	119	112	47
13	103	111	59	22	13	13	15	28	33	50	53	27	37	25	20	18	25	37	44	70	54	47	90	28	43
14	32	34	19	33	64	58	94	93	90	82	63	74	71	57	77	115	107	118	120	127	127	125	122	117	84
15	95	57	38	37	34	42	41	42	75	92	96	94	102	74	71	64	81	62	105	102	93	81	84	22	70
16	52	43	51	40	69	64	40	41	43	61	66	40	45	61	40	36	40	36	30	42	40	55	81	67	49
17	100	98	97	91	77	70	77	33	11	10	9	9	9	7	7	9	8	13	23	24	13	16	16	14	35
18	13	47	48	22	37	41	29	17	13	15	24	20	33	50	49	76	92	72	71	58	46	66	74	95	46
19	89	76	83	78	72	91	92	89	81	82	88	89	63	70	76	63	45	57	84	93	87	79	85	72	79
20	55	36	21	30	25	16	26	47	48	72	64	62	63	64	59	60	76	84	85	86	83	80	82	76	58
21	65	59	65	74	73	71	67	69	68	69	66	59	76	71	36	39	43	28	39	29	18	15	15	14	51
22	8	8	11	9	8	10	14	26	30	24	24	25	26	38	38	M	M	40	40	40	41	38	41	31	26
23	34	34	34	29	26	33	33	31	32	36	24	23	21	20	23	25	29	30	34	24	28	24	25	16	28
24	17	11	9	7	7	8	28	50	80	78	56	50	43	42	40	67	76	104	113	108	90	93	91	82	56
25	110	M	89	49	20	32	39	56	71	81	74	50	62	61	64	46	47	42	58	58	59	55	20	13	55
26	19	20	12	16	14	15	34	28	35	37	36	40	26	24	31	33	20	32	41	36	46	20	16	13	27
27	11	10	10	8	7	7	30	67	68	54	45	44	42	31	32	26	42	57	86	105	62	35	25	63	40
28	90	74	54	49	32	20	31	62	65	76	76	79	71	58	47	47	64	71	90	98	98	78	44	57	64

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
40	44	49	44	92	103	116	120	7	-	135	26	-	103	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: FEBRUARY

STATION : AP LEI CHAU  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	3	4	4	4	4	4	7	10	5	7	6	2	1	2	2	2	2	1	2	2	3	3	4	4	4
2	2	2	3	2	2	1	2	1	3	3	2	1	2	2	2	M	1	1	0	0	0	1	1	0	1
3	1	1	2	3	3	2	2	2	2	1	2	3	1	0	0	0	0	1	1	3	4	3	3	7	2
4	7	7	7	7	7	7	6	8	8	8	7	8	M	M	M	M	M	M	34	17	7	5	5	8	9
5	8	10	10	10	10	11	11	10	12	12	13	12	11	16	18	12	12	12	12	12	12	12	12	11	12
6	13	12	13	12	13	13	14	16	18	14	11	12	11	12	11	12	12	12	11	12	12	13	12	7	12
7	7	7	8	7	8	7	7	8	9	8	9	9	8	7	13	16	16	15	13	8	8	8	9	9	9
8	9	10	10	9	10	9	9	9	10	8	6	6	6	5	6	6	5	6	6	6	6	7	8	7	7
9	6	5	7	7	7	8	6	7	7	7	7	8	17	13	6	6	6	5	9	13	13	16	44	29	11
10	19	44	25	20	25	36	54	46	28	26	23	49	43	39	41	46	23	19	18	16	8	8	34	18	30
11	5	4	4	4	5	8	4	4	7	10	13	26	19	25	25	20	34	21	22	28	10	4	2	3	13
12	3	4	4	4	4	4	5	4	5	4	3	7	10	19	23	45	24	16	25	19	19	17	14	10	12
13	11	10	7	5	5	5	5	5	7	7	6	5	5	5	6	5	5	5	4	5	4	5	6	7	6
14	6	5	4	5	4	5	5	11	5	4	5	4	14	32	15	6	23	44	61	39	11	11	20	9	15
15	45	42	43	26	12	43	24	13	32	51	55	42	29	62	35	27	48	28	22	13	15	20	15	16	32
16	40	34	23	40	30	18	19	18	22	67	88	27	28	30	31	37	28	27	25	21	19	18	23	21	31
17	21	38	51	40	33	27	11	4	2	1	3	3	2	2	3	1	1	2	2	2	3	4	2	2	11
18	1	2	2	3	2	1	0	1	2	1	2	2	3	4	3	9	38	5	3	3	3	4	4	16	5
19	37	26	28	25	15	32	86	18	75	23	9	12	10	60	45	11	3	6	22	27	26	17	11	29	27
20	10	6	7	5	4	6	9	28	35	29	24	107	72	23	5	4	6	6	5	4	5	17	5	3	18
21	24	15	11	22	18	9	4	2	4	2	1	1	3	2	2	3	2	1	3	2	1	1	1	3	6
22	2	2	2	2	3	1	2	2	2	2	3	1	1	1	1	2	2	2	3	2	3	4	3	2	2
23	2	3	3	3	2	3	4	2	2	2	1	2	1	1	2	1	1	1	1	2	1	2	2	3	2
24	1	2	3	3	3	3	2	1	1	2	5	3	18	16	9	10	34	32	32	7	22	58	35	7	13
25	4	8	6	6	4	3	2	4	31	26	37	30	17	15	10	10	13	3	5	6	6	8	2	2	11
26	2	1	2	2	2	1	2	1	1	1	1	1	1	2	2	3	2	2	2	3	2	2	2	3	2
27	3	4	4	3	4	3	3	4	3	9	13	14	9	5	14	2	5	12	10	43	9	4	3	3	8
28	3	5	4	4	8	10	8	67	30	26	43	47	21	19	17	28	38	59	39	24	52	40	14	20	26

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	30	42	53	64	0	-	107	1	-	32	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: FEBRUARY

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	26	19	14	13	12	15	35	52	64	76	80	61	37	47	52	66	64	47	58	41	38	32	27	22	42
2	19	17	13	9	12	16	32	55	68	73	63	52	53	50	56	M	52	61	49	35	29	23	32	33	39
3	28	20	17	14	12	13	20	32	43	54	57	58	59	58	58	60	68	84	84	80	39	26	24	31	43
4	41	29	25	22	17	19	24	36	44	50	55	52	M	M	M	M	42	54	47	48	43	41	44	49	39
5	42	32	28	22	19	23	34	47	71	74	57	46	50	63	64	55	67	70	78	81	55	44	39	38	50
6	29	24	20	17	17	16	23	41	53	55	27	21	18	16	16	17	18	19	21	29	51	30	22	19	26
7	18	18	15	14	15	17	25	37	39	33	23	21	22	20	37	50	103	103	82	110	92	79	52	53	45
8	63	57	46	40	31	36	47	67	64	31	15	18	17	15	17	18	14	15	17	14	11	12	13	14	29
9	14	12	12	10	10	12	13	31	23	26	33	35	78	61	33	49	42	42	72	108	116	71	127	127	48
10	119	127	107	82	59	74	113	108	111	106	93	89	85	79	94	95	86	67	55	57	81	121	107	66	91
11	23	26	19	18	15	21	21	27	38	42	50	63	54	58	53	60	79	68	69	86	64	24	18	17	42
12	16	17	15	12	12	17	23	27	32	38	34	33	40	48	48	68	55	47	64	53	83	92	58	96	43
13	75	31	21	14	12	12	17	23	24	20	17	10	7	7	9	9	9	10	11	20	11	13	15	26	18
14	15	14	11	8	7	11	19	54	26	19	13	19	48	73	67	30	99	114	126	125	46	84	117	39	49
15	101	100	108	84	46	95	77	42	67	100	94	83	70	76	46	32	65	49	56	20	75	73	64	74	71
16	93	82	73	62	68	63	76	69	61	64	79	53	60	55	50	52	44	53	93	88	88	113	128	131	75
17	120	78	92	83	73	62	28	7	5	4	4	6	5	5	4	5	4	5	11	7	7	10	7	11	27
18	11	8	6	5	3	3	4	3	3	5	5	9	15	19	12	37	77	29	20	22	45	54	58	72	22
19	84	83	65	66	44	54	92	73	94	69	46	56	45	62	69	23	19	35	88	88	84	87	55	88	65
20	63	58	64	49	35	33	54	44	54	54	59	67	67	36	9	14	26	28	29	32	25	51	38	32	43
21	69	68	45	53	62	31	27	37	32	24	30	21	12	11	11	11	12	7	7	8	7	5	3	4	25
22	1	2	2	4	5	6	8	22	10	12	17	23	24	32	38	48	39	38	40	41	45	41	43	36	24
23	30	35	28	18	14	25	32	11	5	7	9	11	13	9	11	7	11	13	22	13	11	8	9	6	15
24	5	4	3	1	3	3	6	9	11	8	45	34	68	70	68	63	106	128	90	53	87	103	110	21	46
25	9	22	12	29	19	11	15	32	63	66	73	70	61	61	60	54	60	50	60	57	61	36	14	13	42
26	17	12	9	9	9	8	10	12	15	18	17	14	11	7	9	10	7	10	9	17	8	7	11	8	11
27	6	5	5	2	1	2	11	17	14	22	51	59	25	18	22	4	14	61	84	81	44	17	6	10	24
28	11	21	11	7	26	33	45	81	78	102	72	48	45	34	26	34	52	94	102	99	109	105	70	78	58

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	
29	34	41	34	84	101	114	125	1	-	131	11	-	91	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: FEBRUARY

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	1	2	2	2	3	2	3	3	5	5	4	6	6	7	7	6	6	6	6	6	6	9	8	5	5
2	4	4	3	2	2	2	3	4	6	6	7	6	6	6	5	4	3	2	2	2	1	2	3	4	4
3	4	6	5	5	5	4	4	5	5	7	7	7	6	6	6	6	6	7	9	8	8	7	7	8	6
4	8	9	8	7	6	6	6	8	8	7	8	7	7	7	8	8	7	8	8	7	7	6	5	6	7
5	7	7	6	7	6	6	6	6	7	8	7	9	8	7	8	8	8	7	7	7	7	6	5	8	7
6	6	7	7	6	7	5	6	5	6	8	8	9	7	7	5	5	6	7	9	7	6	9	8	6	7
7	7	6	4	4	6	5	5	4	8	10	11	9	7	9	11	11	9	7	5	6	6	8	8	9	7
8	8	9	8	7	7	6	6	6	6	10	12	5	5	3	3	3	2	5	5	4	3	3	3	4	6
9	3	3	4	4	3	5	5	5	3	6	7	9	8	8	8	7	7	6	9	9	14	13	8	6	7
10	10	8	9	8	10	5	7	10	14	18	18	13	21	25	25	23	43	41	14	11	12	10	11	24	16
11	19	14	7	5	5	6	6	6	6	7	6	6	6	7	7	8	12	8	8	9	7	10	7	4	8
12	4	3	3	3	2	3	3	4	9	6	3	2	2	3	6	7	7	7	5	6	5	8	6	5	5
13	7	12	7	6	3	3	3	3	8	13	11	6	4	5	4	5	4	4	4	4	4	3	16	6	6
14	4	4	4	6	6	7	6	7	9	15	9	7	9	5	3	3	7	11	6	8	7	8	9	6	7
15	7	8	7	6	7	8	8	7	10	15	17	19	15	13	13	10	13	20	14	10	8	7	6	5	11
16	5	4	4	5	5	3	4	4	7	8	11	13	10	9	8	5	8	8	6	8	13	10	9	6	7
17	5	9	9	6	4	3	5	4	3	2	2	3	2	7	6	5	3	2	2	2	4	5	4	5	4
18	3	3	3	2	4	4	3	4	5	5	6	4	5	4	5	6	9	7	7	6	5	5	7	9	5
19	5	5	7	8	6	7	8	8	10	13	12	14	14	18	20	20	16	15	11	9	14	8	6	7	11
20	9	9	9	8	7	9	9	8	17	23	31	24	18	14	9	7	6	5	4	6	7	9	7	9	11
21	6	5	8	3	5	5	6	5	8	5	4	9	8	6	4	1	2	1	2	2	1	3	6	6	5
22	5	7	8	7	4	3	3	1	2	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0	2
23	0	0	0	0	0	0	0	1	3	3	6	5	3	4	4	6	6	3	3	1	1	1	2	2	2
24	2	5	4	3	2	3	3	3	4	8	6	8	8	5	4	4	5	5	8	7	6	5	6	9	5
25	10	11	9	6	5	5	5	6	6	6	8	8	10	19	36	37	9	6	6	4	4	2	1	3	9
26	1	3	4	2	2	3	2	2	1	2	2	2	2	2	3	2	2	2	3	4	4	3	3	3	2
27	3	3	2	3	3	3	2	4	6	7	7	7	7	10	7	7	7	4	7	6	12	8	7	6	6
28	6	6	5	5	4	3	4	6	7	10	11	13	20	19	16	15	13	14	18	13	9	11	12	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		
6	6	7	6	11	15	20	24	0	-	43	2	-	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: FEBRUARY

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	30	24	22	16	17	20	24	35	47	50	45	65	64	74	82	87	82	100	102	108	97	108	84	51	60
2	43	40	32	30	27	28	39	48	58	56	65	56	54	50	50	47	49	55	54	53	45	32	25	23	44
3	21	20	16	12	12	14	18	25	28	50	39	35	33	45	55	74	79	77	77	93	61	65	63	45	44
4	40	36	28	24	19	23	22	35	30	49	38	39	38	38	63	63	59	59	63	53	45	34	32	37	40
5	34	26	23	23	21	21	27	32	40	55	46	45	47	48	56	56	58	56	60	71	71	50	38	41	44
6	30	30	27	25	21	20	25	33	30	53	56	50	35	24	10	8	11	21	29	36	86	105	28	19	34
7	32	M	17	22	31	24	70	49	91	93	71	41	69	58	70	81	51	79	77	99	88	77	80	83	63
8	69	63	50	42	40	43	47	59	64	75	72	28	44	39	29	11	12	22	25	23	19	15	17	22	39
9	22	20	22	19	14	23	29	42	16	35	55	55	63	58	63	83	126	93	147	152	155	155	131	124	71
10	148	144	133	118	124	74	96	112	116	113	100	87	87	82	75	62	86	133	71	63	105	119	107	103	102
11	98	102	55	18	20	21	25	31	28	41	34	45	46	54	44	22	30	25	33	50	108	77	51	17	45
12	28	29	24	22	19	22	29	46	57	65	37	35	38	37	37	31	30	24	20	44	116	92	145	89	47
13	69	121	76	89	26	15	51	30	51	92	63	17	10	13	8	10	9	10	13	15	11	23	54	73	40
14	78	74	36	39	35	44	69	71	68	81	28	29	81	30	15	12	64	135	112	117	41	133	128	103	68
15	123	104	82	88	78	82	73	70	82	132	123	105	90	63	50	35	45	32	93	100	74	85	76	99	83
16	54	73	63	52	85	45	74	56	50	32	36	31	30	23	20	20	36	99	80	75	64	108	111	93	59
17	94	124	70	28	16	22	61	25	15	8	12	12	11	16	14	17	10	12	15	16	18	21	18	27	28
18	35	23	28	13	25	27	19	32	54	38	90	43	16	14	15	18	33	29	28	21	19	31	89	109	35
19	83	81	94	62	46	85	104	91	78	94	91	96	73	91	60	30	22	35	62	45	105	50	70	77	72
20	93	93	89	96	88	84	84	81	98	105	84	68	35	24	29	54	34	30	29	105	114	112	107	108	77
21	89	M	80	35	73	75	87	95	86	23	21	81	53	21	17	8	14	8	15	16	13	20	29	24	43
22	22	24	26	24	17	14	49	48	43	33	53	58	60	37	29	26	30	29	29	28	30	32	23	25	33
23	22	27	22	16	16	24	30	28	22	11	25	38	33	21	27	33	30	71	90	25	35	35	18	14	30
24	18	35	20	13	16	20	49	52	97	89	40	60	59	66	34	41	59	33	45	38	39	74	88	142	51
25	120	106	85	60	53	68	82	77	85	70	68	76	84	92	91	77	64	66	74	66	67	36	28	64	73
26	20	49	43	12	15	20	14	16	12	21	23	15	11	8	9	8	7	13	17	23	21	16	40	19	19
27	19	18	13	16	13	20	35	22	26	68	68	82	25	26	21	24	25	21	128	46	80	44	18	28	37
28	57	75	78	53	35	38	48	76	77	83	51	55	63	62	54	51	37	38	68	58	99	89	121	92	65

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			
42	44	52	44	97	112	130	143	7	-	155	19	-	102	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: MARCH

STATION : VICTORIA PEAK  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2018  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	3	4	4	2	3	3	3	4	11	12	M	8	7	4	2	2	1	1	2	2	2	2	0	4
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	1	0	1	0	0	0	0	1	0
5	1	2	2	1	2	4	3	1	0	0	6	48	40	29	83	137	79	18	4	23	81	6	1	1	24
6	2	1	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
7	1	0	0	0	1	0	1	2	1	2	1	2	1	1	0	0	1	1	1	1	0	1	0	0	1
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	4	2	11	24	11	4	2	1	2	3
10	1	2	1	1	1	1	1	1	2	3	3	3	3	2	0	2	2	2	3	4	2	2	3	2	2
11	1	1	1	1	1	1	1	1	2	1	3	4	3	0	0	0	1	1	1	1	1	1	1	1	1
12	0	0	1	2	0	1	1	3	3	2	2	2	1	1	4	3	2	1	1	1	0	3	4	0	2
13	0	3	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2	1	0
14	1	3	1	1	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
15	3	1	0	0	1	0	0	0	0	0	0	3	25	2	2	3	8	4	8	7	14	13	6	4	4
16	4	34	39	28	11	22	19	7	9	11	12	9	10	11	10	19	11	20	16	18	6	5	5	6	14
17	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	49	15	10	8	6	2	12	7
18	2	0	1	3	0	2	15	27	44	63	64	16	1	0	0	0	0	0	4	14	M	M	M	M	13
19	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
20	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	4	2	1	2	1	0	0	5	
21	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	6	12	15	9	6	4	3	1	5	3
22	3	2	2	2	2	1	1	2	2	3	3	2	1	2	2	5	6	8	7	3	3	4	4	7	3
23	5	4	3	3	2	1	2	2	3	3	4	3	3	3	3	3	4	3	3	3	3	3	2	4	3
24	2	2	1	1	1	1	1	1	1	1	2	2	2	2	3	2	3	2	2	2	2	3	2	7	2
25	3	3	4	5	5	5	4	4	3	4	4	4	5	4	4	3	4	3	3	3	3	2	2	5	4
26	4	3	3	2	2	2	4	4	4	3	3	17	11	11	6	8	11	24	15	10	10	11	15	17	8
27	11	5	3	4	5	4	4	4	4	4	4	6	6	6	7	12	18	16	12	13	10	10	11	8	8
28	5	5	4	3	3	2	2	2	2	2	2	2	3	3	3	4	5	3	4	2	3	5	3	3	3
29	3	3	3	2	2	2	2	2	2	2	2	2	3	3	3	3	3	4	3	2	3	6	5	6	3
30	4	2	3	4	3	3	3	4	3	2	1	3	3	3	3	3	4	6	6	5	4	2	4	7	4
31	3	2	2	2	2	2	3	3	3	3	3	2	2	2	2	3	3	4	4	5	5	4	4	5	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	15	28	49	0	-	137	0	-	24	3	94	0

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

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

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	6	7	10	12	8	13	20	22	42	62	67	M	38	24	22	24	24	13	3	11	10	6	7	3	20	
2	10	11	5	5	2	2	3	10	20	33	27	28	39	40	41	52	32	35	11	5	4	8	1	2	18	
3	0	0	0	0	0	0	1	2	11	17	17	14	12	6	6	10	14	7	8	7	5	6	5	3	6	
4	4	2	0	0	0	0	0	3	3	7	4	5	2	1	7	7	4	7	10	1	0	2	1	0	3	
5	0	0	0	0	8	16	5	4	4	1	8	27	16	10	25	34	27	13	9	23	31	5	0	1	11	
6	4	3	0	0	0	10	6	14	20	20	17	20	15	17	18	13	11	7	5	4	3	3	7	6	9	
7	3	M	3	2	1	1	4	12	14	12	15	22	20	32	37	40	35	30	55	47	38	13	12	4	20	
8	14	31	17	7	8	10	9	24	21	30	32	28	27	33	36	36	36	46	43	39	25	17	14	18	25	
9	14	9	8	6	6	8	17	23	34	37	24	29	22	29	24	29	31	29	61	40	31	9	9	11	23	
10	11	11	15	9	8	8	16	30	32	40	32	24	16	20	17	20	28	53	14	16	11	11	13	11	19	
11	9	7	7	6	5	5	5	7	9	9	11	16	17	17	20	20	29	35	14	9	9	8	6	7	12	
12	2	5	5	5	1	2	3	16	26	35	47	44	39	40	34	43	47	43	27	10	2	5	7	3	20	
13	2	10	4	2	2	1	2	5	34	30	16	21	9	11	12	11	16	14	14	2	4	2	4	1	10	
14	1	2	0	0	0	0	0	10	14	33	65	39	25	36	52	37	24	39	9	3	1	0	0	2	16	
15	13	4	1	0	0	0	1	8	24	21	19	15	25	6	15	21	40	27	64	61	95	79	27	8	24	
16	7	52	75	76	50	64	39	27	51	53	56	40	36	28	28	36	31	64	77	51	10	10	7	9	41	
17	6	2	1	0	0	0	0	0	1	2	2	5	2	3	5	10	5	3	1	0	0	0	0	0	6	2
18	5	2	1	2	1	1	2	6	4	13	10	13	15	2	2	2	3	1	2	2	2	6	6	1	4	
19	3	1	0	0	0	0	1	15	30	31	15	15	9	12	14	14	19	18	18	14	7	10	19	2	11	
20	5	0	0	3	22	46	20	21	32	27	24	25	29	19	16	22	24	30	31	24	25	26	21	18	21	
21	16	M	11	9	9	9	11	25	35	39	38	41	38	41	46	50	55	59	59	87	76	56	36	29	38	
22	26	16	11	10	11	9	18	29	37	50	41	24	25	18	28	23	34	34	58	70	54	53	25	11	30	
23	12	11	9	7	4	5	7	14	19	26	35	36	33	24	17	15	16	24	10	9	11	12	7	6	15	
24	4	4	4	1	1	1	2	7	12	18	17	16	19	13	18	14	17	13	17	12	6	9	8	6	10	
25	3	2	1	3	1	2	2	3	2	6	2	7	2	1	0	0	1	4	8	6	2	0	5	3	3	
26	9	3	2	0	0	3	1	15	49	54	47	65	50	38	26	26	39	57	79	94	87	102	129	125	46	
27	116	43	15	13	6	5	13	20	23	37	44	32	32	20	15	33	44	46	48	77	95	85	96	10	40	
28	5	7	4	3	3	4	6	7	15	13	17	15	14	13	28	19	26	20	29	4	4	8	4	1	11	
29	4	2	0	1	0	0	1	5	12	22	35	21	26	29	25	24	21	19	3	2	5	13	7	11	12	
30	4	1	0	0	2	3	5	12	11	5	2	1	1	2	2	1	1	3	6	3	2	0	2	11	3	
31	2	0	0	0	0	0	2	3	6	7	8	2	0	0	0	0	0	5	4	3	1	3	3	6	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			
11	10	17	10	40	54	76	91	0	-	129	2	-	46	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: MARCH

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	3	3	2	0	0	2	6	7	8	M	3	1	0	0	0	0	0	0	0	0	0	0	2
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
5	1	2	4	9	2	3	3	4	1	5	0	0	0	1	0	3	12	1	1	1	0	0	0	2	2
6	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
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	4	1	1	2	2	3	2	1
10	2	1	2	1	2	2	1	2	2	2	2	3	3	3	3	3	2	3	2	2	2	3	4	3	2
11	2	2	2	2	2	2	2	2	2	2	4	4	4	3	3	2	2	3	2	3	3	2	2	1	2
12	0	1	2	2	1	2	2	2	2	2	2	1	1	4	2	3	2	1	3	8	7	4	3	2	
13	3	5	5	4	5	5	3	5	4	4	3	4	4	3	5	4	3	3	3	6	10	11	6	5	
14	6	6	4	5	5	4	3	2	2	2	1	1	1	1	1	1	1	1	3	2	3	2	5	3	
15	2	1	1	0	0	0	4	8	2	2	2	3	14	48	16	42	41	12	3	3	5	8	9	9	10
16	8	4	4	4	3	2	1	1	2	1	1	1	2	1	2	12	7	10	18	6	2	2	7	4	
17	8	3	1	1	0	1	1	0	0	0	1	1	1	2	1	1	1	1	1	1	1	1	0	1	
18	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
19	1	1	1	0	1	0	1	3	2	3	5	4	3	2	4	14	11	7	3	3	3	3	4	15	4
20	8	10	12	11	15	7	2	1	2	2	3	3	3	2	2	3	2	2	1	2	2	1	1	1	4
21	1	1	1	1	1	0	2	1	1	1	5	23	16	13	15	12	20	13	9	8	5	3	2	3	7
22	2	3	3	3	3	2	3	3	3	3	2	2	2	2	2	3	3	3	4	5	4	3	2	3	
23	3	2	2	1	1	1	1	1	2	2	2	3	4	3	3	3	4	4	2	2	2	1	1	1	2
24	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	2	3	3	1
25	3	3	4	4	5	5	4	2	3	3	4	4	4	5	4	4	3	3	2	2	3	2	3	2	3
26	3	3	2	2	2	2	3	3	2	3	3	2	3	3	5	8	8	4	3	3	4	7	7	7	4
27	4	6	5	4	5	9	11	5	4	3	3	3	4	3	2	2	4	8	10	8	8	8	10	7	6
28	4	4	4	3	2	2	3	2	2	1	2	2	2	2	3	4	2	6	4	4	4	6	2	1	3
29	1	2	3	2	1	1	1	1	1	1	1	2	1	2	2	1	3	2	4	8	5	8	7	4	3
30	3	3	3	3	3	3	3	3	2	1	2	4	3	3	3	3	5	6	5	5	3	2	2	2	3
31	1	1	0	0	0	1	1	1	2	2	2	2	2	1	1	1	3	2	2	1	2	2	2	2	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				
3	2	3	2	5	8	12	16	0	-	48	0	-	10	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: MARCH

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	22	42	56	57	47	59	51	54	46	42	34	M	27	20	16	17	18	16	12	14	17	14	13	17	31
2	15	14	12	10	10	10	10	10	11	11	10	10	12	12	13	16	20	22	14	14	16	14	15	11	13
3	12	11	11	12	13	11	16	18	20	18	21	19	20	18	17	18	20	20	22	18	17	17	18	30	17
4	23	20	16	14	13	14	12	16	19	23	19	17	18	20	20	25	22	24	21	20	17	15	18	19	19
5	21	23	30	32	18	17	26	23	17	16	12	9	10	11	9	18	19	18	23	18	18	14	11	18	18
6	15	10	9	7	8	27	13	13	12	14	13	12	11	11	12	12	11	12	11	11	11	11	13	12	12
7	12	M	11	11	10	9	10	13	13	14	13	14	13	M	14	15	17	16	18	25	13	16	12	13	14
8	10	23	19	14	13	13	17	25	33	28	29	34	31	31	33	40	M	38	35	28	18	17	15	9	24
9	8	6	6	5	4	4	6	9	10	8	7	9	8	10	11	12	11	20	13	13	11	9	12	9	9
10	9	10	12	9	7	8	11	14	13	11	13	9	8	10	11	12	12	15	14	13	10	11	14	10	11
11	8	8	7	7	7	6	6	7	7	7	9	8	9	13	12	8	10	17	11	13	14	9	9	9	9
12	6	7	13	10	7	8	9	10	14	14	10	9	9	7	13	13	14	12	7	10	19	19	12	11	11
13	9	11	12	10	11	10	10	15	16	20	11	10	11	10	13	14	13	16	11	7	11	17	19	12	12
14	11	11	10	11	12	8	9	10	15	14	14	18	10	15	11	11	11	12	11	12	10	10	11	15	12
15	12	12	8	7	8	8	20	33	38	29	23	20	36	68	48	81	79	41	29	37	32	26	21	21	31
16	17	16	31	39	44	35	14	15	25	18	14	15	12	11	10	10	21	22	28	48	14	7	7	18	20
17	18	11	9	6	5	5	6	6	6	6	7	8	8	7	10	8	8	10	8	7	8	7	7	7	8
18	7	5	5	6	5	8	7	8	12	12	9	9	10	9	9	10	8	8	7	9	7	8	7	6	8
19	6	6	6	6	7	7	10	17	13	15	15	12	10	8	9	19	23	19	19	24	22	16	18	28	14
20	18	21	22	30	56	40	36	34	38	42	38	36	36	32	28	32	32	24	24	21	25	20	16	16	30
21	14	M	12	10	9	12	18	21	23	29	31	47	43	38	41	35	46	34	28	26	25	21	11	10	25
22	10	8	7	7	7	6	10	14	11	12	13	11	10	10	10	13	15	15	10	8	11	8	8	9	10
23	11	12	14	10	8	9	11	15	13	12	11	11	11	16	14	13	15	16	11	13	12	12	10	8	12
24	8	7	8	8	7	7	6	8	9	9	8	9	9	10	10	10	12	10	10	9	8	9	12	9	9
25	7	8	7	7	8	8	5	9	7	8	10	7	8	9	10	10	10	12	10	7	10	9	8	8	8
26	9	9	7	6	7	6	8	9	15	15	11	7	9	8	11	17	18	12	12	21	19	22	41	58	15
27	30	30	20	15	15	39	47	29	17	11	13	11	12	10	10	11	13	25	30	29	24	19	19	15	21
28	11	11	8	7	7	9	9	8	8	9	10	10	9	9	11	18	10	22	21	15	13	17	11	8	11
29	6	8	7	6	6	5	5	9	9	9	7	7	5	6	7	9	12	12	20	32	16	19	12	9	10
30	7	9	8	7	7	7	8	12	9	6	7	10	7	7	7	8	16	15	16	17	12	9	10	9	10
31	7	5	5	4	4	5	9	7	7	7	8	7	7	7	8	8	11	13	15	12	11	10	9	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	
13	12	15	12	28	36	46	55	4	-	81	8	-	31	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 : VICTORIA ROAD SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

MONTH: MARCH

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	6	5	7	7	6	13	21	31	13	9	10	18	13	8	4	4	3	3	13	15	17	12	10
2	20	21	16	11	10	7	5	4	9	11	13	14	12	14	16	5	4	4	5	4	4	5	11	3	10
3	3	6	16	23	18	18	18	9	5	4	4	3	3	3	3	3	3	3	3	3	3	3	2	9	7
4	7	7	4	4	5	4	5	5	6	7	6	9	6	6	7	6	5	6	6	6	5	5	6	5	6
5	6	7	8	9	5	4	7	5	5	5	8	17	22	19	11	18	10	8	8	5	4	3	3	39	10
6	11	6	5	2	3	4	3	2	2	2	2	2	2	2	3	3	3	2	2	2	2	2	2	3	3
7	3	3	2	3	3	3	3	3	3	3	3	3	3	6	3	5	17	11	9	3	4	6	5	9	5
8	15	13	6	3	3	2	2	2	2	2	2	2	2	2	2	3	3	2	3	2	2	2	2	2	3
9	2	2	2	2	2	2	2	2	2	2	2	2	2	8	5	4	3	9	9	10	4	4	3	4	4
10	4	4	4	3	3	3	3	3	4	5	7	3	3	3	3	4	4	4	4	4	4	4	4	4	4
11	4	4	3	4	3	3	3	3	3	3	3	4	12	12	11	5	5	9	10	4	3	4	4	3	5
12	3	2	3	3	6	11	7	6	15	12	16	24	16	12	6	4	4	4	3	3	3	4	9	7	7
13	12	17	12	12	20	16	20	19	31	34	34	11	4	4	4	4	4	4	4	7	12	17	9	5	13
14	5	6	5	4	4	4	4	4	4	9	10	8	4	7	14	6	8	12	11	6	6	4	4	4	6
15	3	4	3	3	4	4	12	9	9	22	27	30	59	23	13	14	12	22	22	18	16	10	10	13	15
16	13	19	18	22	20	14	8	8	26	30	25	17	12	6	9	16	19	20	26	25	11	5	4	4	16
17	4	5	3	3	3	3	3	2	3	2	2	2	2	2	3	3	3	2	2	2	2	2	2	3	3
18	3	2	3	3	3	3	3	3	3	3	3	5	7	5	3	3	3	3	3	3	3	3	3	11	4
19	12	31	20	13	10	13	23	9	21	30	6	5	4	5	8	8	5	5	15	5	5	9	7	11	12
20	9	5	6	10	10	9	4	4	4	4	6	7	6	3	4	6	5	4	4	4	3	3	3	3	5
21	3	3	3	3	3	3	3	3	3	3	4	5	7	5	9	13	14	11	11	8	7	7	4	4	6
22	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	M	M	5	4	4	4	4	5	4	4
23	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	3	3	4	3	3	4	3
24	4	4	4	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
25	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	6	4
26	4	4	3	2	5	5	3	7	11	15	20	17	7	11	8	10	20	19	12	9	8	6	7	8	9
27	15	45	25	21	30	22	18	14	26	13	9	8	5	8	6	17	16	13	19	10	7	6	6	7	15
28	6	5	6	5	4	5	13	8	4	3	3	3	3	3	4	4	5	4	5	5	5	6	5	3	5
29	3	3	2	3	2	2	3	9	14	18	9	3	4	4	7	3	3	4	2	3	3	4	4	4	5
30	4	3	5	15	10	6	5	6	4	3	4	3	3	3	4	5	5	6	5	5	4	3	3	5	5
31	4	4	3	3	3	3	4	4	4	4	4	3	3	3	4	4	5	5	5	5	5	4	4	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		
5	4	7	4	15	20	26	31	2	-	59	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

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : NITROGEN DIOXIDE

MONTH: MARCH

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	15	20	13	17	16	21	29	34	28	23	17	13	24	20	11	7	21	8	11	46	52	61	51	24	
2	53	55	50	32	18	15	16	26	29	38	32	32	30	30	43	29	24	16	19	16	16	16	42	3	28	
3	1	19	40	46	40	37	40	41	37	22	15	11	6	2	3	5	4	6	5	10	7	5	6	24	18	
4	18	11	0	0	0	0	4	6	8	6	3	5	1	0	2	5	4	7	6	4	4	4	4	7	5	
5	4	6	3	4	1	0	7	12	11	5	7	15	13	11	5	10	6	7	21	21	16	14	12	26	10	
6	14	9	4	1	0	4	1	1	2	2	1	1	2	2	3	3	1	1	0	0	0	0	0	1	2	
7	0	M	0	0	0	0	3	9	6	4	3	3	5	10	7	12	32	34	35	14	26	45	44	42	15	
8	42	45	27	5	5	5	5	15	13	17	17	15	16	17	20	25	24	22	26	24	18	9	8	7	18	
9	6	4	4	2	2	2	9	16	19	16	9	9	9	21	13	7	8	18	26	40	34	22	14	15	14	
10	8	5	5	4	4	4	15	26	23	19	20	9	7	8	6	11	14	13	9	13	9	10	8	8	11	
11	7	4	3	3	3	3	4	5	6	5	4	6	21	20	22	12	17	30	38	17	13	10	15	6	11	
12	4	1	3	7	11	21	22	30	39	34	38	40	34	23	9	11	15	19	26	31	22	19	26	31	22	
13	39	47	35	35	46	47	48	44	43	41	50	36	11	6	8	10	13	21	18	28	52	54	23	4	32	
14	2	1	0	0	0	0	0	9	5	23	43	46	14	35	40	32	37	46	39	18	23	8	1	0	18	
15	2	3	6	6	9	9	23	31	32	39	41	40	50	29	33	37	33	50	57	48	40	34	35	38	30	
16	33	38	40	40	39	34	28	28	32	32	35	31	23	7	11	20	28	42	52	43	29	21	15	16	30	
17	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	10	20	11	2	1	1	2	1	1	0	0	33	3
19	37	45	39	31	18	23	38	23	31	36	7	5	3	3	4	7	7	9	21	11	15	24	9	16	19	
20	10	4	1	11	21	36	10	14	17	16	13	13	16	7	6	13	13	12	15	15	9	7	6	6	12	
21	5	M	2	0	1	1	3	10	16	17	15	17	21	15	26	33	35	24	30	39	40	35	17	14	18	
22	12	12	9	6	5	5	9	19	18	16	11	10	10	8	11	M	M	16	18	39	35	40	36	18	17	
23	11	8	4	2	2	3	8	8	12	12	14	14	11	10	11	13	14	9	12	9	10	8	6	2	9	
24	0	0	0	0	0	0	2	5	3	4	3	3	3	4	3	4	5	6	2	2	1	2	1	0	2	
25	0	0	0	0	0	0	0	0	1	0	1	3	0	0	0	0	0	0	0	0	0	0	1	29	1	
26	11	1	0	0	2	6	8	15	27	32	35	41	9	13	10	13	29	28	34	38	41	34	39	49	21	
27	53	54	48	49	46	41	35	32	34	21	23	19	4	5	2	23	20	25	48	22	26	34	21	6	29	
28	1	1	9	0	1	6	33	22	5	3	4	3	4	4	5	6	6	10	16	8	13	7	1	2	7	
29	1	0	0	0	0	M	M	M	M	M	M	6	7	2	4	2	5	12	10	2	6	6	6	3	4	
30	3	1	14	32	17	4	3	7	2	0	0	0	0	0	1	3	5	7	3	0	0	0	0	1	4	
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	3	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
11	9	14	9	38	43	49	52	0	-	61	0	-	32	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: MARCH

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	3	5	8	10	7	4	9	43	80	20	12	11	21	14	5	2	1	0	1	16	24	14	16	14
2	41	32	21	17	15	16	8	10	21	12	26	21	25	16	19	10	6	6	5	3	3	5	59	4	17
3	2	15	18	22	20	34	62	28	8	6	17	3	2	1	0	0	0	1	0	1	0	0	0	10	10
4	9	5	2	2	1	1	1	1	3	3	3	4	2	2	5	2	3	3	3	3	1	2	2	3	3
5	3	5	5	4	4	1	3	2	4	6	13	40	49	42	23	21	13	6	5	5	3	1	0	18	12
6	23	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
7	4	1	2	2	2	1	3	3	4	3	3	1	4	3	3	15	28	27	9	3	4	3	5	7	6
8	12	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9	0	1	3	1	0	1	1	1	4	2	1	0	1	2	9	7	3	16	19	15	11	7	3	0	5
10	1	1	0	0	0	0	0	1	3	2	2	1	1	1	2	1	1	1	2	2	1	1	1	1	1
11	1	1	1	0	1	0	0	0	1	0	1	3	24	16	20	12	16	22	6	3	1	1	0	1	5
12	2	1	1	1	3	5	3	8	25	14	29	44	25	28	21	5	2	2	3	3	1	2	3	24	11
13	14	9	6	4	6	10	16	25	42	46	53	17	8	4	3	3	3	4	3	5	23	29	30	15	16
14	9	6	3	4	2	1	2	2	1	9	9	4	2	8	12	4	5	17	12	6	10	8	5	0	6
15	1	1	0	0	0	1	4	5	5	26	43	41	39	7	10	11	11	16	23	9	7	9	8	15	12
16	25	30	21	15	19	16	11	10	36	48	44	24	15	6	7	20	20	27	39	29	7	2	2	3	20
17	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	13	12	9	3	0	0	0	0	0	0	0	3	8	2
19	11	39	27	32	33	32	30	20	49	69	7	1	1	2	4	6	4	2	20	2	1	8	3	7	17
20	8	3	3	6	13	11	3	4	4	3	7	8	7	1	2	7	4	3	3	3	3	2	1	0	5
21	0	0	0	0	0	0	0	0	1	M	0	1	4	8	5	17	16	20	13	8	9	9	3	2	5
22	1	1	1	1	1	2	0	2	2	3	2	1	7	1	3	13	7	17	2	2	1	1	3	6	3
23	8	15	3	2	1	1	1	2	4	3	3	6	5	3	3	3	3	4	3	3	3	3	2	0	4
24	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1	0	0	0	0	1	1	1	2	0
25	1	1	1	1	3	4	3	2	2	2	2	3	2	2	2	2	3	1	0	2	1	1	4	1	2
26	1	9	11	2	1	0	0	4	15	21	27	10	12	9	9	25	24	21	10	6	7	11	14	10	
27	53	63	62	30	45	38	31	15	50	22	12	24	12	9	11	43	16	19	23	15	11	9	7	6	26
28	3	3	3	2	1	1	9	22	19	1	1	2	3	2	1	2	4	2	3	2	1	3	3	0	4
29	0	2	1	1	1	0	1	5	21	29	16	1	3	6	12	6	1	2	0	0	1	3	3	13	5
30	4	2	2	12	4	10	12	11	9	0	0	1	1	0	0	0	1	4	4	3	2	0	0	2	4
31	0	0	1	1	1	1	1	2	1	1	1	0	2	1	0	1	2	3	1	3	3	1	0	6	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		
5	3	7	3	21	30	44	52	0	-	80	0	-	26	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: MARCH

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	38	38	46	54	46	27	38	53	61	63	47	36	26	38	38	28	26	41	27	51	92	115	122	111	53
2	98	96	77	59	43	52	31	44	66	54	56	55	64	51	60	54	64	52	66	80	69	69	115	22	62
3	13	72	79	89	67	81	79	64	50	45	43	30	23	9	12	10	10	9	11	16	13	10	11	53	37
4	43	19	4	5	4	4	6	13	17	15	12	9	7	7	9	10	10	12	15	8	8	8	10	12	11
5	12	16	12	14	11	7	21	18	22	16	25	32	30	24	16	19	17	16	36	40	17	14	14	35	20
6	44	28	24	22	25	17	14	17	18	28	21	17	17	19	24	20	19	15	13	12	11	10	14	10	19
7	9	8	7	7	7	7	17	24	29	26	22	24	21	24	30	44	67	80	78	44	70	57	67	73	35
8	81	90	40	12	16	15	15	39	38	39	44	36	35	42	40	50	48	49	44	46	34	24	23	21	38
9	17	17	25	16	12	13	20	39	38	34	28	19	21	27	32	24	21	43	61	58	42	28	20	19	28
10	23	14	14	12	10	10	13	23	36	33	22	19	17	21	21	23	18	16	16	26	19	19	18	17	19
11	15	M	13	12	10	9	10	11	14	13	14	18	48	38	41	37	50	68	41	33	25	27	19	15	25
12	8	13	8	10	15	25	14	44	79	63	75	70	56	46	30	20	21	40	76	74	76	59	63	78	44
13	65	45	13	11	39	56	88	82	78	73	73	60	35	11	16	17	27	21	39	58	102	99	96	62	53
14	28	11	6	8	5	4	6	16	15	76	87	71	42	74	75	42	66	83	74	47	65	50	19	13	41
15	25	16	15	11	15	24	43	48	58	80	81	74	67	26	63	61	60	76	99	84	79	77	54	82	55
16	92	94	84	83	83	76	68	65	67	67	68	63	41	22	19	36	43	68	106	80	21	16	36	40	60
17	45	10	9	7	6	6	8	9	11	13	12	14	10	11	16	26	19	13	12	10	10	9	10	10	13
18	8	5	4	5	7	6	9	12	10	16	12	46	47	48	32	9	13	19	20	40	7	17	30	65	20
19	64	91	83	74	72	79	78	63	82	78	21	12	14	13	17	21	20	30	46	15	26	44	19	23	45
20	25	9	10	30	52	77	30	40	45	42	38	35	40	25	24	31	31	33	44	47	36	32	28	23	34
21	21	16	12	11	16	19	20	36	52	M	41	35	40	39	44	60	63	60	65	83	86	94	60	29	44
22	24	16	12	17	11	24	19	31	28	40	36	23	27	14	21	35	28	39	33	77	97	85	59	49	35
23	50	60	14	12	11	10	16	23	29	32	29	32	22	20	16	19	15	24	22	18	23	19	15	14	23
24	13	10	11	5	6	6	8	14	17	21	17	13	22	22	18	24	22	22	22	23	15	15	16	16	16
25	14	M	9	10	9	8	10	10	13	16	11	17	13	9	9	8	11	15	22	28	20	23	64	11	16
26	21	48	43	9	7	7	12	28	50	59	69	81	37	36	23	24	46	56	89	88	99	72	116	116	52
27	119	118	115	104	97	90	71	60	82	69	45	57	35	23	24	72	28	57	76	54	70	99	99	24	70
28	12	10	9	7	8	9	40	78	55	21	25	28	25	21	20	23	27	32	42	41	33	23	11	9	25
29	13	18	11	7	7	6	11	42	67	71	56	36	28	17	23	14	15	31	25	15	32	36	43	77	29
30	35	21	11	44	18	39	48	48	42	14	12	11	13	10	11	12	14	19	15	11	10	9	8	14	20
31	9	7	5	5	4	5	9	11	13	11	12	9	6	6	6	10	13	18	10	11	13	12	12	13	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		
25	24	34	24	76	84	99	113	4	-	122	10	-	70	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: MARCH

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	11	13	30	22	27	33	51	44	44	34	21	19	13	14	8	4	4	3	3	5	6	5	5	5	18	
2	5	4	4	2	2	3	3	3	4	4	5	7	37	19	5	5	5	7	6	6	6	5	4	4	6	
3	3	4	4	4	2	3	3	4	3	4	4	4	4	3	2	3	3	2	3	4	3	3	3	5	3	
4	6	7	4	5	6	9	7	21	16	13	19	12	8	18	10	11	8	10	11	11	10	8	13	10	11	
5	15	23	27	16	6	5	23	7	9	11	10	51	60	38	12	35	34	10	10	4	7	3	2	9	18	
6	4	2	2	3	5	5	1	0	0	1	1	1	1	2	2	2	1	1	0	1	0	0	0	3	2	
7	4	2	3	4	4	3	4	5	4	4	4	3	4	4	3	3	3	1	28	9	4	4	3	4	5	
8	36	25	6	4	3	3	3	6	3	3	3	4	11	8	6	4	3	4	3	4	4	4	4	4	7	
9	4	4	4	5	5	4	5	5	7	4	3	1	2	11	4	2	3	5	14	3	3	4	4	4	5	
10	3	3	4	4	4	4	4	5	6	5	4	3	4	4	4	5	5	3	4	5	4	5	4	5	4	
11	4	4	4	5	4	5	4	5	5	4	5	6	5	8	3	3	3	1	2	2	4	4	4	2	4	
12	2	1	2	2	2	3	3	4	5	6	12	19	22	6	3	3	4	4	3	3	7	10	9	7	6	
13	5	8	8	8	8	6	6	7	67	56	18	5	5	4	4	4	5	3	4	5	5	8	12	8	11	
14	9	11	9	7	7	7	5	5	5	5	27	7	6	5	6	5	8	15	7	6	6	5	6	7	8	
15	5	4	5	4	10	6	53	23	13	19	52	56	74	23	18	37	40	57	34	44	27	20	17	20	28	
16	25	29	27	39	39	19	8	12	22	107	73	24	12	7	15	30	41	39	64	54	32	17	8	5	31	
17	8	5	3	2	3	2	2	2	2	2	1	2	2	2	2	3	2	2	1	2	2	2	1	1	2	
18	1	1	0	2	2	2	2	1	1	1	1	2	1	1	1	1	0	0	0	1	1	1	1	1	6	1
19	3	2	4	3	2	2	2	4	6	4	6	4	4	2	10	8	6	6	35	4	4	12	M	46	8	
20	29	16	26	29	13	16	5	6	6	6	9	12	10	5	2	9	7	5	4	5	4	4	4	3	10	
21	2	3	3	2	3	3	3	8	10	4	6	18	10	15	16	24	20	18	12	10	11	5	4	4	9	
22	4	4	4	5	4	4	4	4	5	5	4	4	3	3	3	4	6	4	4	3	5	5	M	6	4	
23	6	5	5	4	3	3	3	4	5	6	5	5	6	5	5	5	6	5	5	5	4	5	4	4	5	
24	4	4	5	4	4	5	4	4	4	4	5	5	4	5	6	5	4	4	5	4	5	6	6	5	5	
25	5	5	6	6	6	7	6	4	4	5	5	6	6	7	6	5	7	5	4	4	4	4	4	5	5	
26	5	5	4	4	3	3	4	5	13	34	42	31	8	4	5	11	66	33	11	25	34	38	M	20	18	
27	28	57	76	31	30	28	51	22	60	39	12	5	7	8	12	12	28	20	18	17	16	18	M	12	26	
28	9	8	7	6	6	5	5	5	5	4	5	5	5	5	6	6	6	8	8	10	9	12	7	4	7	
29	5	5	5	5	4	3	4	4	3	3	4	3	3	4	4	M	1	2	0	2	7	5	7	3	4	
30	1	2	1	2	2	2	2	2	2	1	0	0	0	1	1	1	3	6	4	3	2	1	10	5	2	
31	3	3	4	3	4	4	5	4	5	5	4	3	3	2	4	4	5	4	4	5	6	6	50	3	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	5	9	5	22	35	52	60	0	-	107	1	-	31	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: MARCH

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	62	64	73	64	62	64	65	62	61	37	25	24	14	16	12	7	10	5	6	6	13	11	13	15	33
2	8	5	4	4	3	5	8	13	13	17	19	32	96	48	5	8	7	5	5	5	3	2	3	2	13
3	0	3	6	6	8	5	9	5	7	5	6	10	8	6	6	7	8	5	1	0	1	1	0	6	5
4	5	5	1	3	2	8	7	18	11	14	8	5	4	10	7	10	5	13	13	8	8	4	10	11	8
5	19	28	26	16	5	4	14	5	9	10	14	33	34	28	15	28	25	21	11	7	5	9	18	12	17
6	25	10	25	28	30	27	7	9	10	12	11	9	7	8	8	5	4	4	3	5	3	2	5	5	11
7	4	2	2	2	2	2	5	10	8	6	6	11	8	15	20	20	7	85	51	39	39	33	22	17	
8	57	69	28	11	8	11	14	30	32	35	38	37	41	45	53	58	53	45	44	37	26	15	13	14	34
9	14	8	7	5	7	9	23	33	31	24	12	7	6	28	4	4	3	12	27	5	8	26	19	25	14
10	18	13	11	7	3	6	11	12	9	10	10	6	8	4	3	5	6	7	6	11	9	7	8	7	8
11	6	9	6	6	5	3	3	4	6	7	4	8	7	16	6	7	8	12	16	12	11	18	11	12	8
12	12	15	11	11	5	9	21	29	22	30	33	59	59	12	5	5	2	4	4	6	11	25	36	23	19
13	16	16	25	16	12	18	28	50	90	76	27	2	1	0	1	2	6	5	2	11	14	19	14	6	19
14	6	8	4	2	1	4	6	17	9	5	99	64	13	14	27	33	41	77	19	7	9	6	1	7	20
15	15	15	15	10	20	14	69	64	43	63	91	72	83	55	77	93	90	89	73	73	55	44	29	38	54
16	75	82	78	84	83	51	31	56	63	65	71	32	13	6	15	28	52	58	72	74	64	34	18	4	50
17	12	4	4	3	1	2	3	3	5	4	4	5	3	3	6	8	7	7	4	2	5	4	3	4	4
18	3	1	1	0	0	1	1	2	6	8	8	7	8	1	1	2	3	1	0	0	1	9	7	21	4
19	29	9	21	4	2	5	11	18	10	8	4	2	1	0	23	18	4	6	35	3	4	17	M	50	12
20	37	14	37	33	43	69	28	27	41	38	42	43	35	34	32	41	46	43	33	25	28	30	28	19	35
21	16	11	9	7	9	11	18	30	44	46	51	65	57	43	38	42	38	39	21	24	67	67	34	23	34
22	22	20	10	9	11	12	21	28	22	16	12	10	5	5	6	13	15	10	10	18	25	29	M	23	15
23	25	17	12	8	5	9	17	19	13	9	9	7	6	3	4	4	7	8	8	9	8	8	6	5	9
24	6	4	4	2	2	3	5	9	8	11	11	6	6	10	8	11	9	9	12	11	5	8	9	6	7
25	6	5	4	4	3	4	6	3	6	8	5	7	5	5	7	6	9	8	11	11	5	3	5	5	6
26	11	5	5	3	3	9	14	22	65	53	50	39	7	2	9	13	56	49	14	62	80	114	M	118	35
27	115	110	114	65	58	68	82	63	90	62	26	8	3	8	15	17	37	30	27	19	14	16	M	17	46
28	18	12	6	9	5	9	18	7	8	6	8	6	4	3	4	4	5	10	9	9	6	11	4	1	8
29	5	3	4	3	4	3	17	10	8	8	7	4	3	2	1	M	0	5	0	2	5	0	1	0	4
30	2	13	2	0	0	0	4	2	0	0	0	0	0	0	0	0	0	7	1	0	0	0	0	2	1
31	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3	4	4	0	1	0	0	0	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		
11	9	18	9	51	67	83	92	0	-	118	1	-	54	3	99	0

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

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

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	7	6	6	7	6	12	17	18	22	25	21	17	12	12	13	4	3	2	2	6	5	5	6	10
2	6	5	5	5	4	3	3	3	4	6	8	13	11	7	7	6	5	6	5	4	5	5	5	3	6
3	4	4	5	6	5	4	4	6	8	7	5	5	4	5	3	3	2	3	2	3	2	4	4	5	4
4	6	6	7	7	7	10	11	9	11	19	25	24	32	23	27	25	20	22	19	20	18	17	14	14	16
5	14	13	10	8	4	3	4	5	9	36	39	M	M	M	19	16	32	36	24	T	T	T	T	T	
6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	32	18	T	T	T	T	T	T	
7	T	T	T	T	T	T	T	T	T	T	T	T	7	6	4	2	4	3	3	9	11	5	5	7	
8	9	7	6	2	1	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	1	1
9	1	1	1	1	1	1	0	2	1	2	2	2	2	2	3	5	8	9	7	9	9	6	4	4	3
10	3	4	3	3	2	3	2	3	4	9	11	10	5	6	4	5	5	3	4	5	6	6	6	6	5
11	7	6	5	6	7	6	7	8	6	4	9	6	9	10	9	5	3	5	4	3	3	6	7	6	6
12	5	5	4	3	4	3	5	5	7	11	12	11	16	6	9	8	10	7	6	6	6	4	7	10	7
13	8	7	7	8	8	6	6	8	11	30	19	10	6	10	6	8	7	6	7	8	8	10	13	13	10
14	9	8	9	9	8	7	7	5	9	8	7	6	7	5	6	6	4	5	4	3	5	4	4	6	6
15	5	10	7	7	9	6	8	10	14	18	18	21	28	14	30	24	24	30	29	25	17	10	16	13	16
16	12	10	11	12	8	11	14	12	13	17	22	18	10	16	9	27	20	19	20	10	7	7	7	7	13
17	9	7	4	3	2	2	3	5	18	7	4	10	9	18	16	16	7	9	2	5	7	8	5	3	7
18	3	3	2	3	3	5	4	4	4	8	9	8	6	4	4	4	7	3	2	3	2	2	2	5	4
19	5	5	3	7	7	3	3	4	7	10	10	11	8	9	11	11	8	34	19	12	13	15	21	17	11
20	20	11	9	11	10	16	6	7	10	5	7	6	6	5	4	2	2	2	2	3	3	2	2	3	6
21	3	2	2	2	1	1	1	2	1	1	2	2	2	3	5	4	7	7	6	7	3	4	6	4	3
22	4	5	5	5	4	4	5	9	17	13	11	6	5	4	10	6	9	7	6	6	6	8	9	6	7
23	5	6	5	4	3	3	3	3	5	5	9	10	10	8	7	8	7	7	7	6	4	4	4	4	6
24	4	5	3	3	3	3	3	5	5	5	6	6	8	5	6	8	7	7	8	6	5	7	5	5	5
25	4	5	3	4	6	7	5	4	4	3	7	7	7	7	6	5	6	5	5	4	7	4	4	4	5
26	5	5	5	4	3	6	5	5	10	12	9	13	11	12	23	25	23	13	11	15	11	11	9	10	11
27	8	9	6	8	8	7	6	8	11	17	20	10	6	10	8	10	10	9	10	9	11	8	8	8	9
28	8	9	10	8	8	7	8	12	9	8	5	3	4	4	8	9	14	20	14	6	11	8	7	5	9
29	5	3	3	3	4	3	3	5	7	9	8	3	2	4	6	13	11	16	9	8	12	8	8	5	7
30	5	4	6	5	5	8	8	9	9	7	3	3	5	5	8	7	14	21	6	7	4	4	2	7	7
31	9	4	2	2	3	2	11	5	18	15	17	4	3	3	3	8	12	12	6	4	4	5	5	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		
6	6	8	6	16	20	25	30	0	-	39	1	-	16	2	94	0

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

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

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	101	82	79	80	75	71	77	82	77	62	65	37	28	18	19	26	16	14	7	7	13	11	57	26	47
2	63	34	27	40	26	47	21	12	29	61	27	38	24	17	14	11	12	17	11	44	23	62	28	18	29
3	32	53	51	35	45	41	54	83	81	27	7	8	17	49	12	16	6	14	10	18	12	45	71	79	36
4	80	63	48	30	31	49	56	32	29	47	42	26	26	29	34	32	32	47	55	59	61	56	36	54	44
5	41	39	35	33	16	22	19	33	32	39	51	M	M	M	12	20	29	57	58	T	T	T	T	T	
6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	55	36	T	T	T	T	T	T	
7	T	T	T	T	T	T	T	T	T	T	T	51	51	51	48	60	92	85	104	126	144	140	134	121	
8	121	95	77	28	20	17	20	29	29	39	39	38	35	36	41	40	40	45	41	35	33	29	25	20	41
9	19	20	16	21	18	20	22	31	27	43	44	34	35	32	13	13	17	20	24	27	22	30	23	59	26
10	63	84	49	13	12	15	13	20	20	51	60	35	12	11	10	10	11	9	11	18	20	23	30	18	26
11	18	18	18	20	21	20	18	19	15	24	13	36	29	23	18	13	8	18	16	12	14	28	54	47	22
12	65	72	62	53	96	86	86	87	87	67	56	34	30	16	21	17	26	18	12	17	17	66	83	63	52
13	71	51	50	73	70	68	78	76	82	90	47	18	8	11	17	19	20	10	13	18	18	17	22	39	41
14	56	48	49	51	41	57	61	67	86	72	80	74	59	35	92	112	85	91	57	23	23	18	17	29	58
15	42	93	96	102	92	75	83	90	90	88	75	83	117	81	106	81	107	112	119	127	115	64	93	104	93
16	91	45	74	96	64	75	72	67	71	74	56	36	19	24	18	40	33	38	69	72	51	88	110	111	62
17	36	25	8	11	7	8	10	13	32	17	14	19	16	26	25	27	20	29	17	19	22	28	17	21	19
18	12	12	9	11	8	12	12	10	13	69	78	47	34	24	7	5	20	10	10	16	47	32	62	116	28
19	99	102	65	50	34	10	12	20	27	35	22	12	13	16	44	28	13	60	54	64	53	65	99	88	45
20	94	60	51	71	65	75	59	57	57	43	51	41	48	46	42	33	30	29	31	41	37	31	40	37	49
21	32	M	22	17	14	14	19	24	22	29	29	41	38	45	54	47	33	32	33	46	112	152	54	45	41
22	42	43	37	32	29	45	46	58	67	71	50	36	13	10	18	14	20	19	18	16	18	21	21	26	32
23	47	70	73	78	35	54	32	21	33	21	22	40	14	13	14	11	11	10	10	12	14	18	21	46	30
24	66	33	35	17	18	16	48	103	33	28	22	13	21	8	13	32	25	27	40	89	59	26	78	19	36
25	30	39	35	39	26	63	44	18	20	67	31	54	59	15	10	9	10	12	19	30	24	13	10	71	31
26	80	126	72	47	43	80	79	80	89	92	61	42	23	16	32	34	29	30	44	50	88	147	120	67	65
27	74	84	76	93	107	48	63	81	88	60	46	26	9	16	16	16	13	15	26	39	67	72	54	127	55
28	106	69	49	48	29	31	52	52	35	46	26	7	9	11	15	19	29	37	44	32	32	27	19	24	35
29	26	31	10	26	20	21	34	62	55	55	52	10	3	8	12	24	17	33	31	28	28	15	14	12	26
30	6	38	41	37	39	89	86	66	51	29	4	3	6	11	17	9	18	35	18	14	6	8	5	19	27
31	26	8	4	7	10	8	20	12	23	18	18	6	3	3	2	10	18	17	18	5	5	8	7	10	11

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
31	32	40	32	83	96	116	126	2	-	152	11	-	93	2	94	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 : January – March 2018

Week Ending	No. of Samples	Suspended Solids, mg/L			pH		
		Maximum	Minimum	Average	Maximum	Minimum	Average
06/01/18	7	22	14	18	8.1	7.6	7.9
13/01/18	7	23	14	17	8.1	7.5	7.7
20/01/18	5*	20	14	17	8.1	7.8	7.9
27/01/18	6*	21	16	18	8.2	7.8	8.0
03/02/18	7	21	12	16	8.0	7.6	7.8
10/02/18	7	22	13	17	8.1	7.5	7.8
17/02/18	7	21	13	17	8.1	7.6	7.8
24/02/18	6*	21	15	18	8.0	7.6	7.8
03/03/18	5*	20	15	18	8.2	8.0	8.1
10/03/18	7	22	12	17	8.2	7.6	7.9
17/03/18	7	23	15	19	8.1	7.6	7.9
24/03/18	7	20	14	17	8.1	7.6	7.9
31/03/18	5*	22	13	16	8.0	7.6	7.8

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 : January – March 2018

Sampling date		9/1/2018	1/2/2018	2/3/2018
Barium,	ug/L	<150	<150	164
Mercury,	ug/L	<0.5	<0.5	<0.5
Cadmium,	ug/L	<1	<1	2.8
Iron,	ug/L	<400	<400	<400
Total Phosphorous,	mg/L	<0.8	<0.8	<0.8
Total Nitrogen,	mg/L	57	57	87
Cyanide,	mg/L	<0.01	<0.01	0.01

Remark:

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

## Appendix D Summary of EMIS

EM&A Log Ref.	Mitigation Measures	Implementation Status
	<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