

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



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

**Operational Phase**

**Quarterly Environmental Monitoring & Audit Report**

**July – September 2017**

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

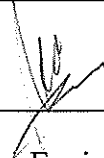


**ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499**

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

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

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

Report Title	Quarterly EM&A Report (July to September 2017)
Date	21 December 2017
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 July to September 2017.

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

### Plant Availability

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

Unit	Period	Remark
L2	05/07/2017 17:53 to 16/07/2017 09:54	Generator IRE check
L2	12/08/2017 21:09 to 14/08/2017 06:59	FDF 2A inlet vane pilot air set replacement
L2	20/08/2017 10:10 to 21/08/2017 06:59	EP inspection and ash intake gate renewal work
L4	04/08/2017 20:55 to 07/08/2017 06:00	CWP 4 lower cooler replacement

### 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	29/08/2017 13:03 to 29/08/2017 12:33	FGD plant bypass damper was opened due to BUF blade angle sticking	EPD was informed on 01/09/2017
L2 FGD	01/09/2017 16:33 to 01/09/2017 16:44	FGD plant BUF vibration high alarm triggered during thunderstorm	EPD was informed on 06/09/2017
L4 FGD	21/07/2017 04:02 to 21/07/2017 18:22	Miscellaneous defect rectification works	EPD was informed on 26/07/2017

Equipment	Period	Cause	Actions Taken
L4 FGD	08/09/2017 03:04 to 08/09/2017 19:26	GGH washing	EPD was informed on 12/09/2017
L5 FGD	13/07/2017 23:34 to 14/07/2017 00:10	For racking out the faulty circuit breaker of ARP for repair	EPD was informed on 18/07/2017

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

### **Environmental Monitoring Works**

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

#### *Air Quality*

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

#### *Water Quality*

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

### **Environmental Licensing and Permitting**

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

### **Implementation Status of Environmental Mitigation Measures**

Environmental mitigation measures were implemented in the reporting period.

### **Environmental Complaints**

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

### **Future key issues**

Key issues to be considered in the coming months include:

#### *Air Impact*

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

#### *Water Impact*

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

### **Concluding Remarks**

The environmental performance of the projects was generally satisfactory.

## 1. INTRODUCTION

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

This report summarizes the environmental monitoring and audit work for the said Projects for the period from July to September 2017.

### 1.1 Background

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

The Projects include the installation and operation of FGD plants with flue gas desulphurization efficiency of 90% for the three coal-fired Units L2, L4 & L5 to reduce the overall SO<sub>2</sub> emissions from Lamma Power Station. The process adopted for the FGD plants is “Wet Limestone-Gypsum”, a technology which has already been used in, and proved effective and reliable for the existing coal-fired units L6, L7 & L8. The flue gas from the boiler is directed to the FGD absorber inside which removal of SO<sub>2</sub> is take place by reaction with limestone slurry. After passing through the absorber, the treated flue gas is heated up by a gas-gas heater to over 80°C at boiler rated capacity and directed back to the existing chimney for discharge to the atmosphere. Figure 1.1a, Figure 1.1b, Figure 1.2a, Figure 1.2b and Figure 1.3 show the location and schematic of the FGD plants.

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

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

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

## 1.2 Project Organisation

The management structure to oversee the Projects includes the following:

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

The organization chart for the Operation EM&A programme is shown in Figure 1.5.

## 1.3 Plant Availability during the Reporting Period

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

Unit	Period	Remark
L2	05/07/2017 17:53 to 16/07/2017 09:54	Generator IRE check
L2	12/08/2017 21:09 to 14/08/2017 06:59	FDF 2A inlet vane pilot air set replacement
L2	20/08/2017 10:10 to 21/08/2017 06:59	EP inspection and ash intake gate renewal work
L4	04/08/2017 20:55 to 07/08/2017 06:00	CWP 4 lower cooler replacement

## 1.4 Malfunction/Outage Records of Pollution Control Equipment

Equipment	Period	Cause	Actions Taken
L2 FGD	29/08/2017 13:03 to 29/08/2017 12:33	FGD plant bypass damper was opened due to BUF blade angle sticking	EPD was informed on 01/09/2017
L2 FGD	01/09/2017 16:33 to 01/09/2017 16:44	FGD plant BUF vibration high alarm triggered during thunderstorm	EPD was informed on 06/09/2017
L4 FGD	10/07/2017 03:10 to 10/07/2017 03:13	Routine damper exercise	EPD was informed on 12/07/2017

Equipment	Period	Cause	Actions Taken
L4 FGD	16/07/2017 05:00 to 16/07/2017 05:10	Routine damper exercise	EPD was informed on 18/07/2017
L4 FGD	21/07/2017 04:02 to 21/07/2017 18:22	Miscellaneous defect rectification works	EPD was informed on 26/07/2017
L4 FGD	29/07/2017 02:46 to 29/07/2017 02:50	Routine damper exercise	EPD was informed on 02/08/2017
L4 FGD	15/08/2017 02:19 to 15/08/2017 02:35	Routine damper exercise	EPD was informed on 16/08/2017
L4 FGD	26/08/2017 03:15 to 26/08/2017 03:18	Routine damper exercise	EPD was informed on 29/08/2017
L4 FGD	02/09/2017 02:07 to 02/09/2017 02:28	Routine damper exercise	EPD was informed on 04/09/2017
L4 FGD	08/09/2017 03:04 to 08/09/2017 19:26	GGH washing	EPD was informed on 12/09/2017
L4 FGD	16/09/2017 01:21 to 16/09/2017 01:37	Routine damper exercise	EPD was informed on 20/09/2017
L4 FGD	19/09/2017 02:15 to 19/09/2017 02:18	Routine damper exercise	EPD was informed on 20/09/2017
L4 FGD	23/09/2017 03:48 to 23/09/2017 03:55	Routine damper exercise	EPD was informed on 27/09/2017
L4 FGD	30/09/2017 02:37 to 30/09/2017 02:41	Routine damper exercise	EPD was informed on 04/10/2017
L5 FGD	10/07/2017 03:02 to 10/07/2017 03:06	Routine damper exercise	EPD was informed on 12/07/2017
L5 FGD	13/07/2017 23:34 to 14/07/2017 00:10	For racking out the faulty circuit breaker of ARP for repair	EPD was informed on 18/07/2017
L5 FGD	29/07/2017 02:56 to 29/07/2017 02:59	Routine damper exercise	EPD was informed on 02/08/2017
L5 FGD	05/08/2017 03:01 to 05/08/2017 03:04	Routine damper exercise	EPD was informed on 09/08/2017
L5 FGD	12/08/2017 03:16 to 12/08/2017 03:41	Routine damper exercise	EPD was informed on 16/08/2017
L5 FGD	19/08/2017 01:50 to 19/08/2017 01:54	Routine damper exercise	EPD was informed on 24/08/2017
L5 FGD	26/08/2017 03:21 to 26/08/2017 03:25	Routine damper exercise	EPD was informed on 29/08/2017
L5 FGD	09/09/2017 02:25 to 09/09/2017 02:31	Routine damper exercise	EPD was informed on 12/09/2017

Equipment	Period	Cause	Actions Taken
L5 FGD	16/09/2017 01:34 to 16/09/2017 01:42	Routine damper exercise	EPD was informed on 20/09/2017
L5 FGD	23/09/2017 03:20 to 23/09/2017 03:32	Routine damper exercise	EPD was informed on 27/09/2017
L5 FGD	30/09/2017 02:52 to 30/09/2017 02:56	Routine damper exercise	EPD was informed on 04/10/2017

## 1.5 Summary of EM&A Requirements

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

The EM&A monitoring work for air and water quality are described in Section 2 and Section 3 respectively.

The following environmental audits are summarized in Section 4 of the report:

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

The future key issues for the Projects will be reported in Section 5 of this report.

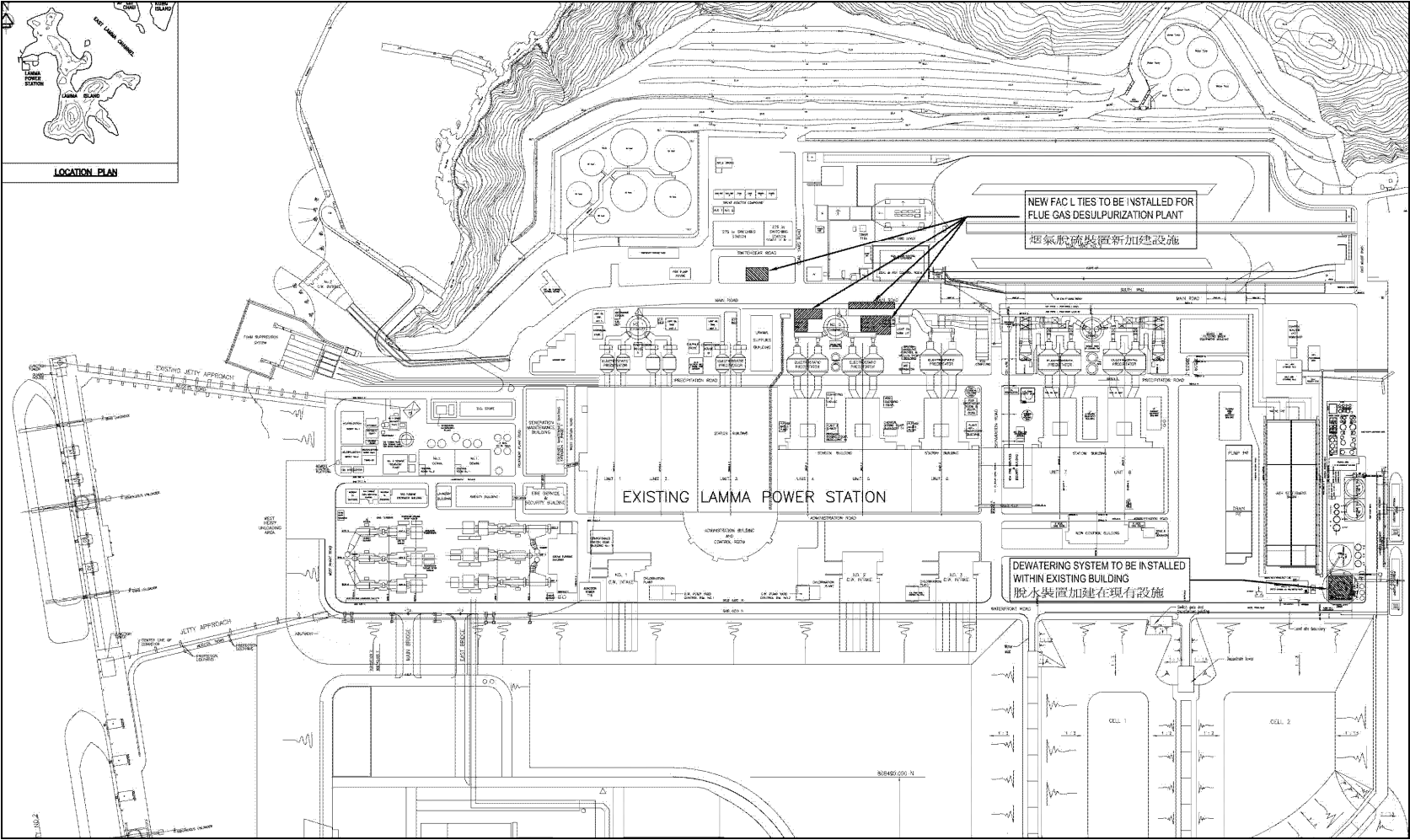


Figure 1.1a Location of New Facilities for L4 & L5 FGD Plants

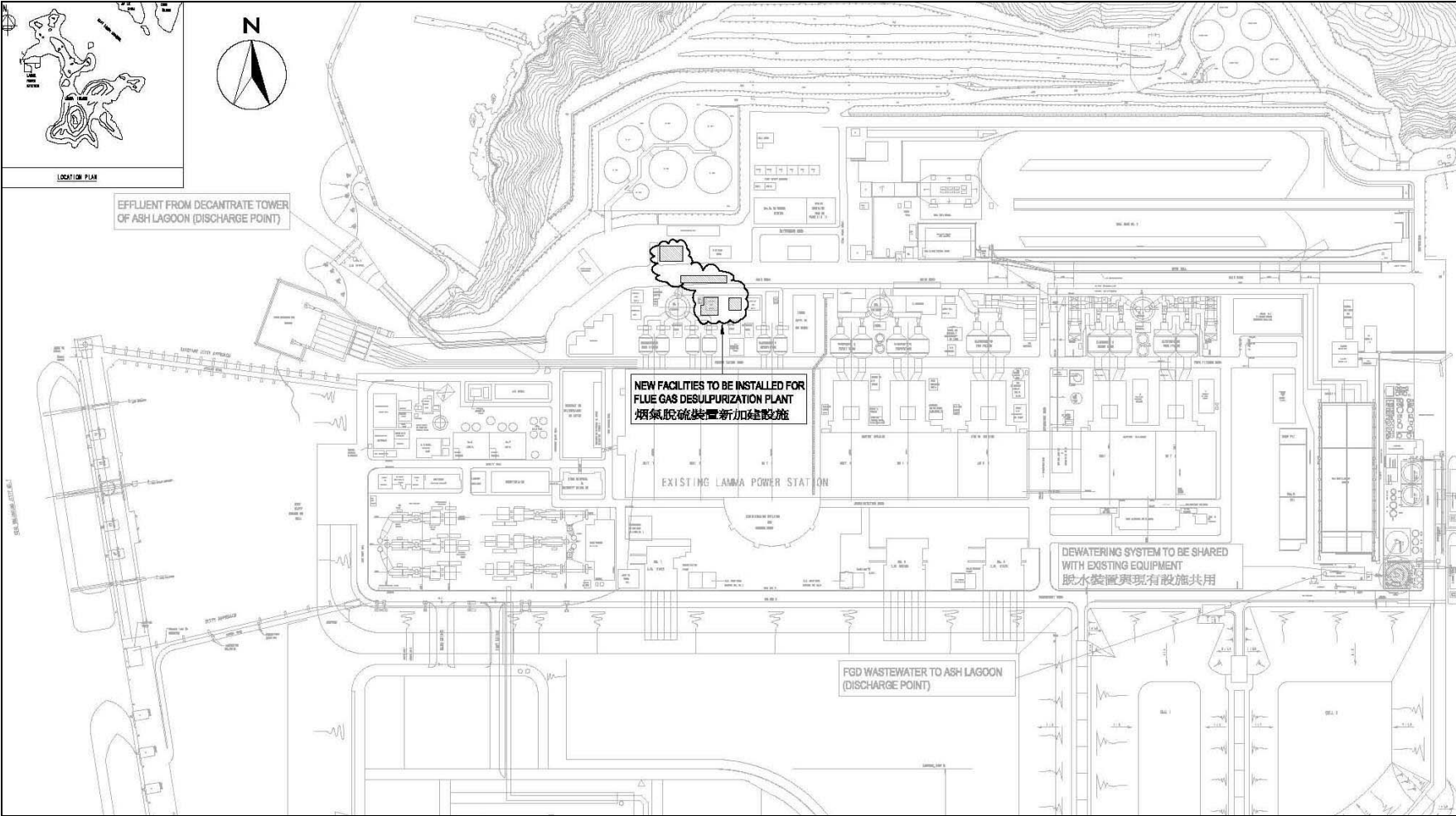


Figure 1.1b Location of New Facilities for L2 FGD Plant

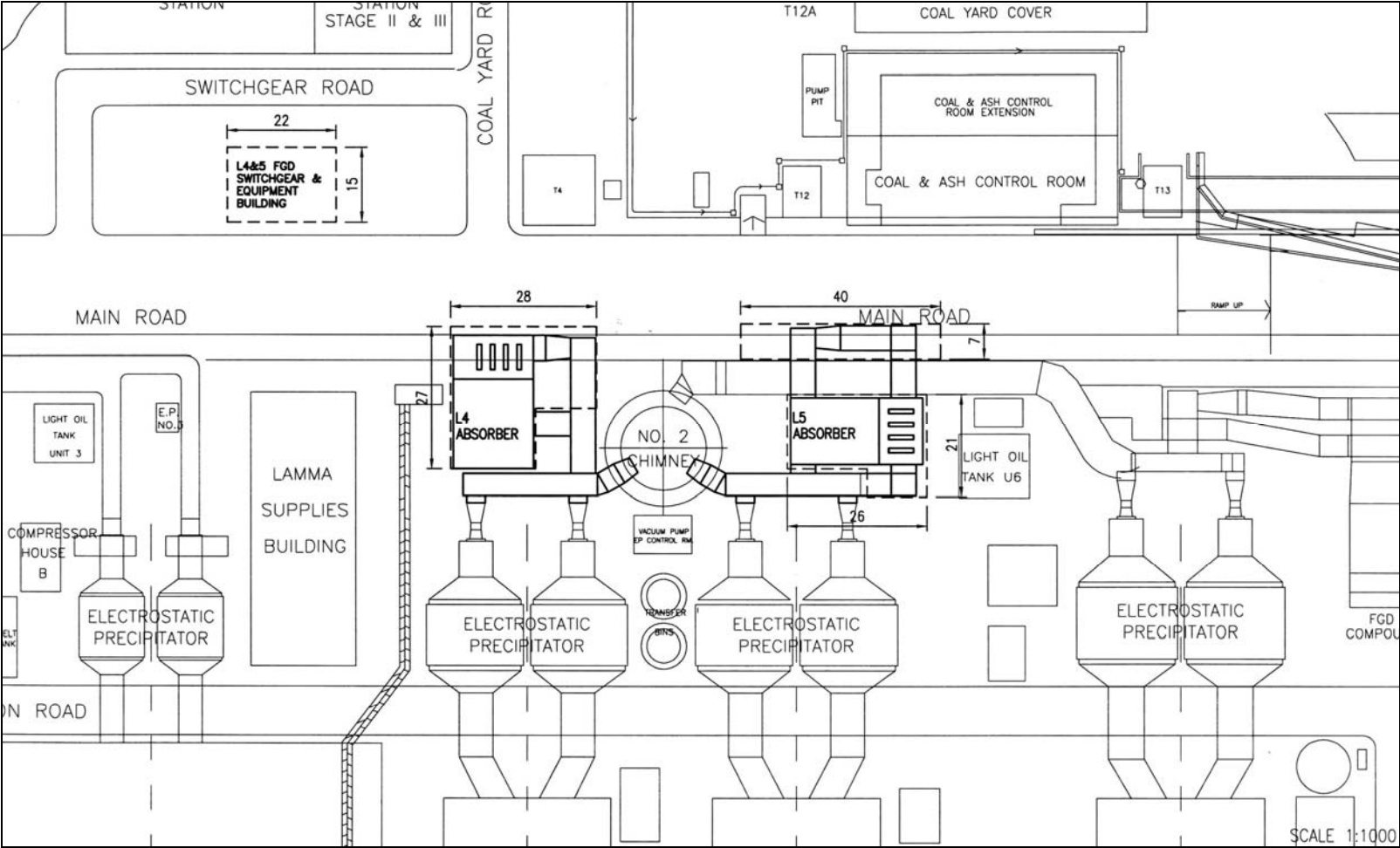


Figure 1.2a General Arrangement of L4 & L5 FGD Plants

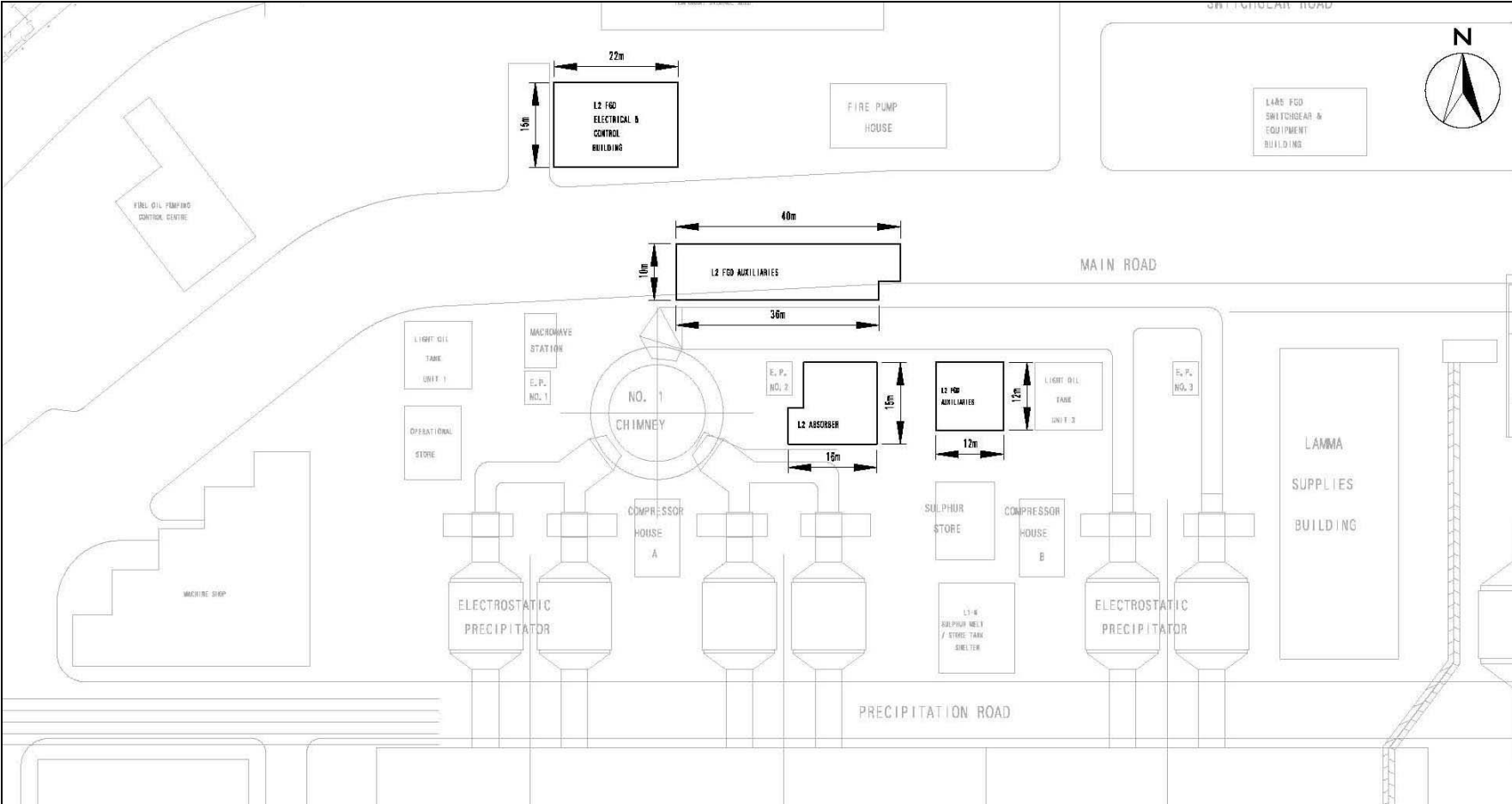


Figure 1.2b General Arrangement of L2 FGD Plant

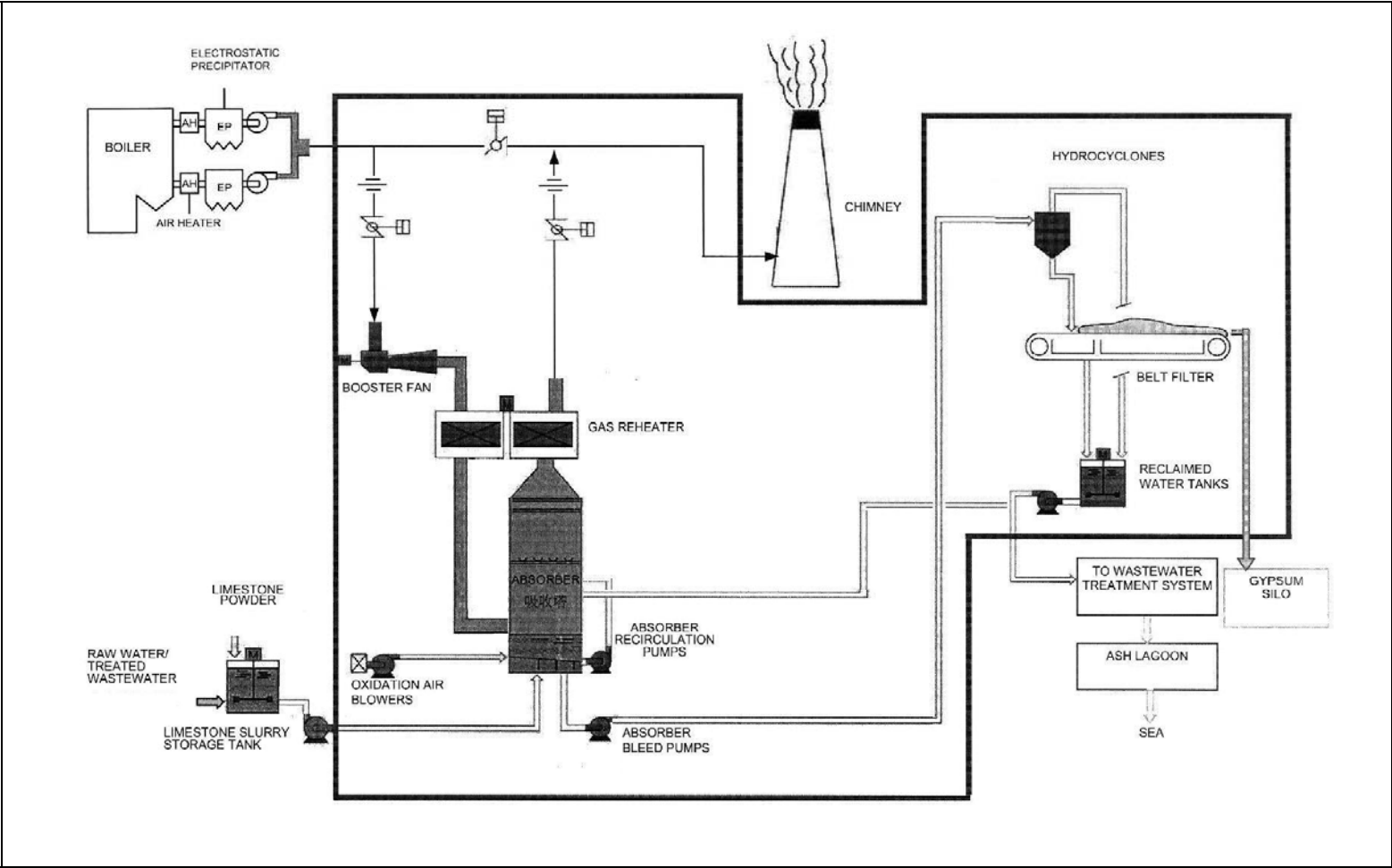


Figure 1.3 Schematic Diagram of the L2, L4 & L5 FGD Plant

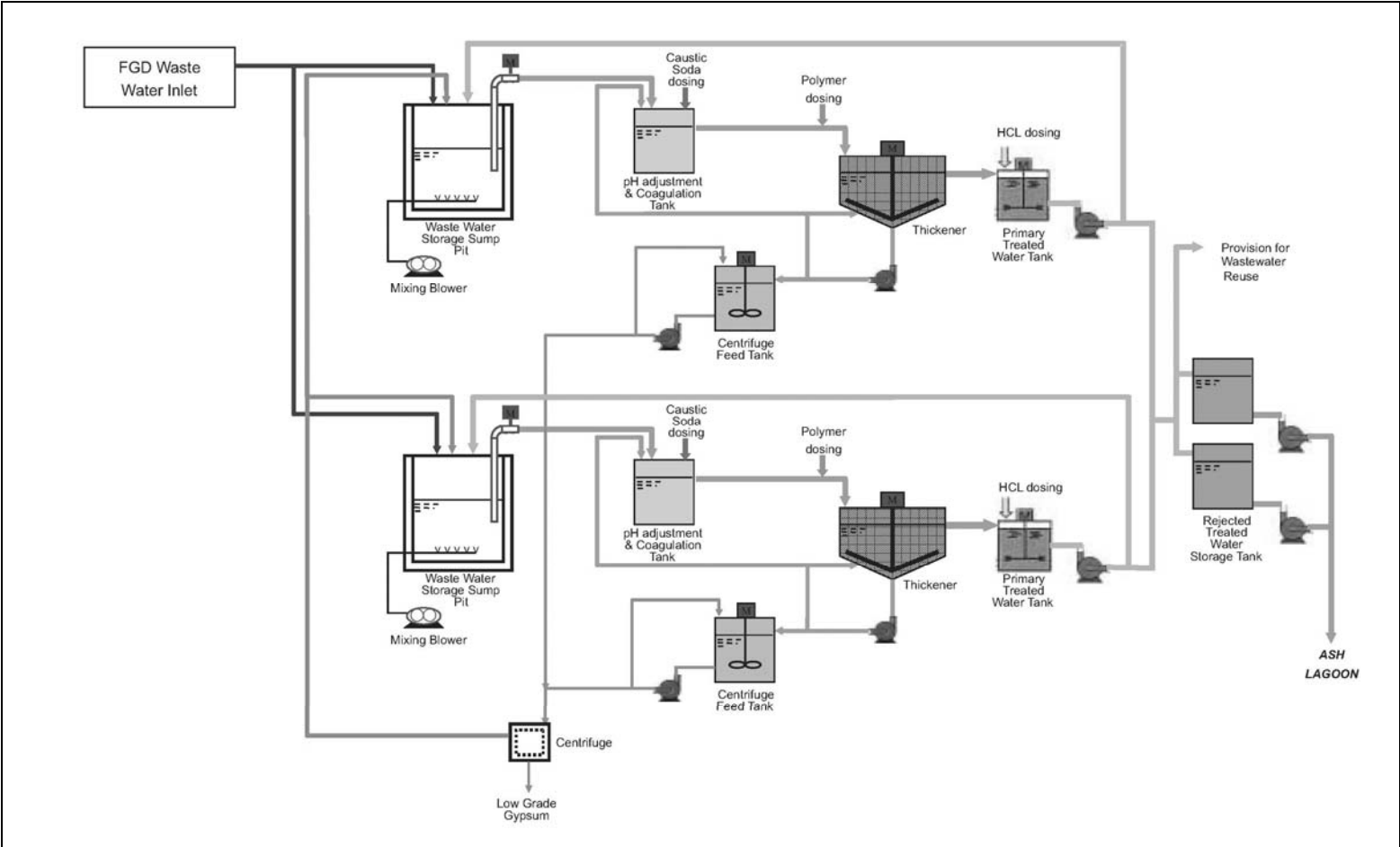


Figure 1.4 Simplified Schematic Diagram of FGD Wastewater Treatment Plant

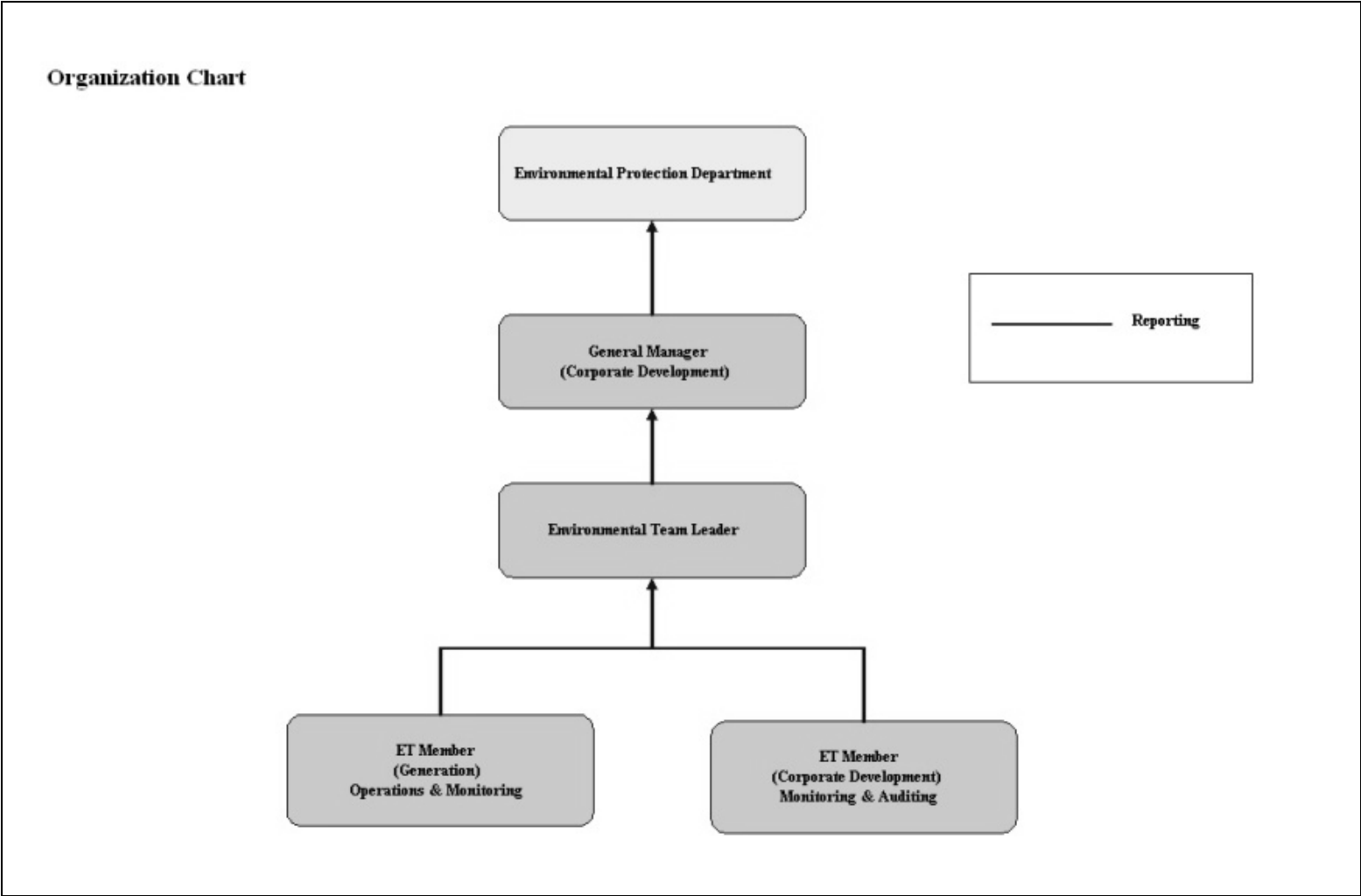


Figure 1.5 Organization Structure at Operational Phase of the Projects

## 2. AIR QUALITY

### 2.1 Monitoring Requirements

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

Table 2.1 Air Quality Monitoring Parameters and Frequency

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

### 2.2 Summary of Results and Observations

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

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

### 3. WATER QUALITY

#### 3.1 Monitoring Requirements

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

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

Table 3.1 Water Quality Monitoring Parameters and Frequencies

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

#### 3.2 Summary of Results and Observations

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

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

## 4. ENVIRONMENTAL AUDIT

### 4.1 Review of Environmental Monitoring Procedures

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

### 4.2 Assessment of Environmental Monitoring Results

#### *Monitoring results for Air Quality and Water Quality*

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

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

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
Air					
1	Annual analysis of dust particulate emission rates at chimney stacks.	01/07/17 30/09/17	N.A.	0	L4, L5 PM stack sampling tests were conducted in the reporting period.
2	Continuous monitoring of opacity, NO <sub>x</sub> , SO <sub>2</sub> and CO <sub>2</sub> in the flue gas at the chimney stacks	01/07/17 30/09/17	0	0	
3	Ambient SO <sub>2</sub> & NO <sub>x</sub> monitoring at the Peak, Queen Mary Hospital, Victoria Road, Chung Hom Kok, Ap Lei Chau and Cheung Chau.	01/07/17 30/09/17	0	0	
Water					
1	pH in WWTP Effluent	01/07/17 30/09/17	0	0	

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
2	Suspended Solids in WWTP Effluent	01/07/17 30/09/17	0	0	
3	Iron in WWTP Effluent	01/07/17 30/09/17	0	0	
4	Barium in WWTP Effluent	01/07/17 30/09/17	0	0	
5	Mercury in WWTP Effluent	01/07/17 30/09/17	0	0	
6	Cadmium in WWTP Effluent	01/07/17 30/09/17	0	0	
7	Cyanide in WWTP Effluent	01/07/17 30/09/17	0	0	
8	Total Phosphorus in WWTP Effluent	01/07/17 30/09/17	0	0	
9	Total Nitrogen in WWTP Effluent	01/07/17 30/09/17	0	0	

#### *Waste Management Records*

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

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

Period	Amount of Gypsum Collected	Amount of Sludge Collected
July 2017	9305.0 MT	0 MT
August 2017	6827.7 MT	0 MT
September 2017	7797.1 MT	0 MT

#### **4.3 Status of Environmental Licensing and Permitting**

All permits/licenses obtained as of September 2017 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	
Environmental Permit for Units L4/5 FGD Plants Retrofit	EP-248/2006	25/04/2006	-	Valid
Environmental Permit for Unit L2 FGD Plant Retrofit	EP-287/2007	02/10/2007	-	Valid
Specified Process Licence issued under APCO	L-7-002(11)	01/01/2017	31/12/2018	Valid
WPCO discharge licence for Ash Lagoon	WT00027218-2017	24/02/2017	31/12/2021	Valid

#### 4.4 Implementation Status of Environmental Mitigation Measures

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

#### 4.5 Implementation Status of Event/Action Plan

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

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

#### 4.6 Implementation Status of Environmental Complaint Handling Procedures

During the reporting period, there was no environmental complaint against the operation of Lamma Power Station.

Table 4.4 Environmental Complaint(s) Received

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

Table 4.5 Outstanding Environmental Complaint(s) Carried Over

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

## 5. FUTURE KEY ISSUES

### 5.1 Outage Plan for the coming 3 months

Unit / Equipment	Period	Remark
L2	16/10/2017 to 03/11/2017	Unit Overhaul
L5	11/12/2017 to 02/02/2018	Unit Overhaul

### 5.2 Key issues for the coming 3 months

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

#### *Air Impact*

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

#### *Water Impact*

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

## **6. CONCLUSION**

Environmental monitoring was performed as required in the reporting period from July to September 2017. 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/Nm <sup>3</sup>	-	50	ET Leader informs Generation Division at action level. Maintenance initiated. Temporary load shift until pollution control equipment repaired and reinstated. Report to EPD.
	Particulate (Opacity)	continuous	40% (bihourly)	35	40	
	SO <sub>2</sub>	continuous	200 mg/Nm <sup>3</sup> (1h)	190	200	
	NO <sub>x</sub> expressed as NO <sub>2</sub> (For L4 and L5 only)	continuous	615 mg/Nm <sup>3</sup> (1h)	585	615	
Chimney emissions	Ambient air	Continuous at existing ambient air monitoring stations	800 (µg/m <sup>3</sup> ) (1h)	-	800	ET to review data on post-hoc basis and check for possible power station contribution.
	SO <sub>2</sub>			-	300	
	NO <sub>2</sub>		300 (µg/m <sup>3</sup> ) (1h)	-		

### 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: Second Quarter of 2017 (July - September)

Date	RSP concentration ( $\mu\text{g}/\text{m}^3$ )	
	Reservoir	East Gate
01/07/2017	22	33
02/07/2017	39	55
03/07/2017	25	34
04/07/2017	19	29
05/07/2017	19	24
06/07/2017	23	31
07/07/2017	17	22
08/07/2017	40	48
09/07/2017	24	38
10/07/2017	18	22
11/07/2017	17	25
12/07/2017	19	21
13/07/2017	16	28
14/07/2017	16	22
15/07/2017	23	30
16/07/2017	23	31
17/07/2017	19	27
18/07/2017	21	30
19/07/2017	21	36
20/07/2017	20	25
21/07/2017	17	20
22/07/2017	23	47
23/07/2017	21	26
24/07/2017	14	29
25/07/2017	17	20
26/07/2017	20	31
27/07/2017	15	20
28/07/2017	19	21
29/07/2017	56	54
30/07/2017	94	91
31/07/2017	37	38

Date	RSP concentration ( $\mu\text{g}/\text{m}^3$ )	
	Reservoir	East Gate
01/08/2017	30	32
02/08/2017	23	24
03/08/2017	13	12
04/08/2017	14	15
05/08/2017	28	31
06/08/2017	19	20
07/08/2017	19	24
08/08/2017	22	27
09/08/2017	26	31
10/08/2017	39	36
11/08/2017	35	37
12/08/2017	22	27
13/08/2017	19	15
14/08/2017	18	25
15/08/2017	15	19
16/08/2017	14	26
17/08/2017	10	19
18/08/2017	15	25
19/08/2017	13	19
20/08/2017	15	22
21/08/2017	37	36
22/08/2017	57	44
23/08/2017	25	28
24/08/2017	25	38
25/08/2017	14	11
26/08/2017	21	14
27/08/2017	20	26
28/08/2017	12	16
29/08/2017	18	27
30/08/2017	34	33
31/08/2017	33	34

Date	RSP concentration ( $\mu\text{g}/\text{m}^3$ )	
	Reservoir	East Gate
01/09/2017	56	60
02/09/2017	50	53
03/09/2017	29	41
04/09/2017	13	26
05/09/2017	32	36
06/09/2017	27	29
07/09/2017	18	22
08/09/2017	18	25
09/09/2017	17	31
10/09/2017	17	27
11/09/2017	21	24
12/09/2017	32	55
13/09/2017	29	33
14/09/2017	36	44
15/09/2017	34	43
16/09/2017	73	66
17/09/2017	50	61
18/09/2017	34	52
19/09/2017	38	31
20/09/2017	31	35
21/09/2017	17	18
22/09/2017	17	22
23/09/2017	19	25
24/09/2017	18	23
25/09/2017	12	17
26/09/2017	13	14
27/09/2017	22	25
28/09/2017	17	22
29/09/2017	14	18
30/09/2017	29	24

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

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

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) #	NOx concentration (mg/Nm3) #	Opacity (%)
1/7/2017	35	380	14
2/7/2017	44	299	15
3/7/2017	22	333	18
4/7/2017	37	343	19
5/7/2017	36	331	20
6/7/2017	54	362	22
7/7/2017	44	388	22
8/7/2017	51	365	22
9/7/2017	48	314	22
10/7/2017	43	334	24
11/7/2017	87	327	22
12/7/2017	87	278	10
13/7/2017	89	349	10
14/7/2017	130	358	9
15/7/2017	81	392	9
16/7/2017	74	288	8
17/7/2017	82	388	8
18/7/2017	87	375	8
19/7/2017	68	375	18
20/7/2017	67	348	21
21/7/2017	54	383	21
22/7/2017	30	321	8
23/7/2017	22	283	8
24/7/2017	29	367	12
25/7/2017	28	351	16
26/7/2017	26	328	17
27/7/2017	21	365	16
28/7/2017	39	351	15
29/7/2017	76	347	15
30/7/2017	89	315	14
31/7/2017	79	320	13

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/8/2017	72	334	11
2/8/2017	92	297	14
3/8/2017	60	346	15
4/8/2017	76	293	11
5/8/2017	82	282	12
6/8/2017	54	308	13
7/8/2017	58	291	13
8/8/2017	72	375	16
9/8/2017	99	357	19
10/8/2017	95	357	21
11/8/2017	83	361	21
12/8/2017	74	371	18
13/8/2017	62	268	15
14/8/2017	70	314	12
15/8/2017	27	362	12
16/8/2017	28	280	14
17/8/2017	16	309	13
18/8/2017	44	327	16
19/8/2017	66	246	15
20/8/2017	23	297	7
21/8/2017	14	295	12
22/8/2017	29	319	12
23/8/2017	40	381	8
24/8/2017	53	364	13
25/8/2017	99	424	19
26/8/2017	50	341	14
27/8/2017	*	*	*
28/8/2017	41	409	11
29/8/2017	32	377	12
30/8/2017	26	382	12
31/8/2017	25	321	13

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/9/2017	13	363	11
2/9/2017	15	359	11
3/9/2017	17	394	10
4/9/2017	29	328	15
5/9/2017	43	391	17
6/9/2017	23	295	16
7/9/2017	46	368	7
8/9/2017	58	315	12
9/9/2017	69	359	7
10/9/2017	96	316	7
11/9/2017	61	292	17
12/9/2017	99	320	22
13/9/2017	82	345	21
14/9/2017	64	379	19
15/9/2017	21	345	15
16/9/2017	47	442	17
17/9/2017	41	378	17
18/9/2017	21	322	14
19/9/2017	27	358	23
20/9/2017	66	301	24
21/9/2017	43	364	23
22/9/2017	31	344	25
23/9/2017	37	373	22
24/9/2017	29	416	14
25/9/2017	73	404	25
26/9/2017	37	353	22
27/9/2017	24	339	21
28/9/2017	28	431	20
29/9/2017	63	351	21
30/9/2017	76	372	19

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) #	NOx concentration (mg/Nm3) #	Opacity (%)
1/7/2017	48	351	15
2/7/2017	25	248	17
3/7/2017	26	341	20
4/7/2017	37	324	20
5/7/2017	31	303	21
6/7/2017	44	334	23
7/7/2017	26	348	19
8/7/2017	39	401	18
9/7/2017	26	258	16
10/7/2017	20	345	18
11/7/2017	75	304	17
12/7/2017	105	305	8
13/7/2017	135	329	8
14/7/2017	90	296	15
15/7/2017	73	264	11
16/7/2017	43	361	8
17/7/2017	25	324	10
18/7/2017	42	378	12
19/7/2017	37	278	13
20/7/2017	33	308	18
21/7/2017	25	297	15
22/7/2017	34	378	12
23/7/2017	22	305	12
24/7/2017	28	321	12
25/7/2017	29	384	16
26/7/2017	22	362	13
27/7/2017	23	392	14
28/7/2017	87	335	14
29/7/2017	88	318	13
30/7/2017	70	344	11
31/7/2017	44	319	11

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/8/2017	42	315	10
2/8/2017	70	294	11
3/8/2017	69	311	12
4/8/2017	51	282	11
5/8/2017	*	*	*
6/8/2017	*	*	*
7/8/2017	52	268	11
8/8/2017	65	293	15
9/8/2017	67	278	18
10/8/2017	114	306	22
11/8/2017	104	283	22
12/8/2017	69	354	26
13/8/2017	80	304	24
14/8/2017	63	356	22
15/8/2017	51	321	22
16/8/2017	19	299	23
17/8/2017	38	356	19
18/8/2017	28	365	21
19/8/2017	59	315	23
20/8/2017	25	352	16
21/8/2017	50	425	17
22/8/2017	37	255	17
23/8/2017	49	294	16
24/8/2017	70	299	20
25/8/2017	62	367	20
26/8/2017	56	355	18
27/8/2017	38	368	15
28/8/2017	29	400	15
29/8/2017	40	376	17
30/8/2017	22	414	18
31/8/2017	28	392	18

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/9/2017	41	396	18
2/9/2017	24	403	18
3/9/2017	32	429	17
4/9/2017	43	446	18
5/9/2017	46	349	18
6/9/2017	46	424	20
7/9/2017	41	393	17
8/9/2017	33	407	21
9/9/2017	61	354	22
10/9/2017	76	313	26
11/9/2017	59	303	28
12/9/2017	84	420	29
13/9/2017	92	411	25
14/9/2017	37	437	21
15/9/2017	33	420	22
16/9/2017	43	454	22
17/9/2017	34	453	19
18/9/2017	33	495	20
19/9/2017	47	514	20
20/9/2017	65	466	23
21/9/2017	50	453	21
22/9/2017	26	515	19
23/9/2017	18	471	20
24/9/2017	27	462	16
25/9/2017	14	480	24
26/9/2017	29	373	24
27/9/2017	38	399	21
28/9/2017	44	439	21
29/9/2017	70	452	24
30/9/2017	86	366	26

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 SO2 for Unit L2

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/7/2017	*	*
2/7/2017	*	*
3/7/2017	45	14
4/7/2017	53	15
5/7/2017	61	15
6/7/2017	*	*
7/7/2017	*	*
8/7/2017	*	*
9/7/2017	*	*
10/7/2017	*	*
11/7/2017	*	*
12/7/2017	*	*
13/7/2017	*	*
14/7/2017	*	*
15/7/2017	*	*
16/7/2017	50	17
17/7/2017	59	19
18/7/2017	*	*
19/7/2017	*	*
20/7/2017	129	14
21/7/2017	72	15
22/7/2017	*	*
23/7/2017	*	*
24/7/2017	93	15
25/7/2017	73	14
26/7/2017	55	16
27/7/2017	49	13
28/7/2017	48	18
29/7/2017	75	21
30/7/2017	46	18
31/7/2017	57	16

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/8/2017	63	21
2/8/2017	64	14
3/8/2017	66	14
4/8/2017	*	*
5/8/2017	77	14
6/8/2017	72	14
7/8/2017	84	21
8/8/2017	67	15
9/8/2017	71	14
10/8/2017	75	15
11/8/2017	72	15
12/8/2017	66	16
13/8/2017	*	*
14/8/2017	61	20
15/8/2017	54	15
16/8/2017	38	15
17/8/2017	32	15
18/8/2017	29	16
19/8/2017	31	17
20/8/2017	*	*
21/8/2017	53	15
22/8/2017	89	14
23/8/2017	90	15
24/8/2017	69	15
25/8/2017	77	14
26/8/2017	*	*
27/8/2017	*	*
28/8/2017	62	16
29/8/2017	58	15
30/8/2017	43	15
31/8/2017	40	14

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/9/2017	37	14
2/9/2017	*	*
3/9/2017	*	*
4/9/2017	*	*
5/9/2017	*	*
6/9/2017	40	16
7/9/2017	42	15
8/9/2017	43	15
9/9/2017	42	16
10/9/2017	*	*
11/9/2017	43	14
12/9/2017	84	15
13/9/2017	81	15
14/9/2017	34	14
15/9/2017	30	15
16/9/2017	*	*
17/9/2017	*	*
18/9/2017	36	14
19/9/2017	44	14
20/9/2017	36	14
21/9/2017	43	14
22/9/2017	39	15
23/9/2017	*	*
24/9/2017	*	*
25/9/2017	42	17
26/9/2017	42	14
27/9/2017	42	14
28/9/2017	48	15
29/9/2017	62	16
30/9/2017	66	15

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: JULY

STATION : VICTORIA PEAK  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017  
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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	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	1	1	1	1	1	1	1	1	1	1	1	1	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	2	0	0	1	2	2	1	3	1
27	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
28	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	7	5	5	5	4	5	5	3	2
29	2	1	1	0	0	1	1	1	3	4	9	6	14	14	14	12	16	6	4	12	17	7	5	7	7
30	9	16	15	21	31	23	22	21	24	25	22	18	12	4	4	7	6	3	0	0	0	0	0	0	12
31	0	0	0	0	0	1	3	2	3	6	M	1	0	0	0	0	0	0	0	0	0	0	0	0	1

MONTHLY STATISTICS:

ARITH ----- PERCENTILES ----- RANGE -----											STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL			
4	0	1	0	1	4	14	20	0	-	31	0	-	12	3	100	0

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

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

STATION : VICTORIA PEAK  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	16	13	8	4	11	11	5	14	10	14	6	4	5	6	9	8	7	12	16	15	13	21	21	12	11
2	11	3	6	9	4	6	10	9	8	14	13	14	12	10	13	15	16	18	20	15	18	20	11	9	12
3	13	6	5	3	4	9	11	10	13	15	19	20	15	19	31	8	14	15	31	24	15	25	12	11	15
4	7	0	1	0	5	13	12	15	14	13	14	13	12	10	11	14	12	11	3	3	1	5	2	3	8
5	3	2	2	5	8	4	5	9	8	8	9	7	6	5	4	5	14	4	2	1	1	3	3	5	5
6	1	1	2	2	3	2	2	5	6	13	17	22	14	11	15	18	21	12	5	6	5	4	5	2	8
7	5	5	4	4	10	15	15	15	12	18	13	9	15	21	31	39	19	20	28	20	14	18	13	9	16
8	6	10	4	8	10	5	11	9	11	23	10	11	9	14	15	18	16	12	30	27	19	16	15	11	13
9	26	25	18	8	14	15	21	16	11	35	12	12	9	8	12	13	16	20	35	21	18	16	13	8	17
10	8	7	9	10	12	17	6	9	14	15	13	13	12	12	10	12	20	14	14	18	18	26	28	24	14
11	16	10	13	16	9	13	22	13	15	17	16	16	15	15	10	8	12	17	12	11	5	5	5	2	12
12	4	4	4	4	2	4	3	4	20	11	10	7	10	5	4	4	5	2	4	7	8	6	11	8	6
13	6	3	2	2	5	6	6	9	11	8	9	7	6	5	5	4	4	3	6	7	4	4	3	3	5
14	2	2	3	2	1	4	4	6	6	10	8	10	10	8	10	8	7	6	5	5	3	4	3	6	6
15	5	3	2	2	3	5	5	5	4	7	6	6	6	4	3	4	5	11	9	5	5	5	3	2	5
16	1	3	1	2	2	2	3	2	2	2	2	1	4	4	1	1	4	7	10	4	5	5	3	3	3
17	4	4	4	3	3	5	6	8	5	11	17	15	15	10	13	12	7	8	6	8	7	7	8	3	8
18	2	3	2	4	3	2	4	6	10	10	11	8	8	9	9	11	17	20	12	12	8	23	13	25	10
19	9	7	5	3	5	5	7	8	8	8	8	8	5	9	12	16	18	11	7	13	23	7	7	13	9
20	13	9	5	4	4	4	4	6	7	5	5	5	4	5	5	5	8	5	7	3	3	4	4	2	5
21	1	7	6	5	3	5	4	5	7	7	7	7	8	9	6	8	10	11	7	7	8	7	15	5	7
22	4	5	3	3	3	5	4	12	12	17	14	8	6	7	7	5	5	6	9	10	12	17	11	20	9
23	22	22	13	7	8	12	12	16	24	17	16	26	22	17	4	3	3	4	4	5	3	9	7	4	12
24	1	1	1	1	1	0	3	7	7	7	6	6	5	3	6	8	10	19	13	7	7	4	2	2	5
25	1	4	4	5	3	4	4	5	5	8	7	4	3	5	5	6	5	8	12	7	8	12	7	11	6
26	6	23	9	13	6	4	13	17	34	37	83	39	21	17	9	10	11	11	13	21	34	33	25	19	21
27	10	10	6	6	6	8	9	16	23	32	27	28	26	20	18	14	26	19	17	8	10	7	8	12	15
28	8	5	4	5	4	6	8	15	24	27	25	22	26	22	26	28	27	30	40	35	15	29	31	6	20
29	2	2	2	0	0	1	3	9	28	31	31	29	50	40	47	46	70	36	40	60	52	46	38	36	29
30	34	57	74	90	92	84	76	71	67	71	75	72	52	35	43	55	51	32	25	21	21	24	15	10	52
31	9	12	10	12	16	23	33	23	32	48	M	22	13	14	12	9	10	11	19	12	12	11	7	7	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	
9	9	12	9	25	34	52	72	0	-	92	3	-	52	2	100	0

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

MONTH: JULY

YEAR : 2017

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	4	5	5	5	12	16	3	3	2	1	2	1	0	1	2	2	1	2	4	2	3
2	2	0	1	2	2	2	5	4	4	4	7	2	4	2	3	2	4	8	7	8	7	2	6	4	4
3	4	3	1	2	1	4	7	4	5	7	3	2	5	7	3	3	3	6	9	2	2	4	5	2	4
4	1	1	1	1	1	4	6	1	M	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1
5	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	1
6	1	0	1	1	1	1	1	1	1	1	2	2	3	3	2	2	1	1	2	2	2	1	2	1	1
7	1	1	1	1	2	2	3	3	3	4	2	2	2	1	2	4	8	7	4	4	3	2	2	2	3
8	2	2	1	2	2	2	3	3	2	2	3	1	1	5	4	3	4	6	4	7	7	4	5	3	3
9	4	3	1	3	2	4	14	10	8	8	6	5	4	1	1	1	1	2	1	0	3	4	3	3	4
10	3	4	5	5	5	4	6	7	6	11	12	6	2	1	1	1	3	2	2	3	3	3	4	7	4
11	6	3	6	5	6	3	4	4	5	2	2	7	1	0	0	0	2	3	1	2	1	2	1	2	3
12	2	2	3	2	2	3	2	1	2	2	1	1	1	1	1	1	1	1	2	2	3	3	3	2	2
13	1	1	1	1	1	1	1	2	2	1	1	1	1	2	1	1	1	2	1	2	1	1	1	0	1
14	0	0	0	0	0	1	1	3	2	2	1	1	1	1	0	0	0	1	1	2	1	1	1	2	1
15	1	1	0	0	0	0	1	0	0	1	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
18	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0	1	0	0	1	0	1
19	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	1	2	1	1	1	1	1	1	1	1
20	1	0	1	1	1	1	1	1	1	2	2	M	1	0	0	0	0	0	0	0	0	1	1	0	1
21	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	M	1	1	1	1	1	1	1	1	1
22	0	1	1	0	1	0	0	0	0	0	1	0	1	1	0	2	3	1	1	1	2	1	1	0	1
23	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	1	1	2	1	1	1	1	1	1	1	1	1	0	1	1	2	1	1	0	1
25	0	1	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	2	2	1	1
26	2	2	1	1	1	1	2	2	19	13	1	1	1	0	0	1	1	2	3	3	3	3	1	3	3
27	3	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	0	1	1	1	0	1
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	1	2	3	4	3	1
29	2	2	1	1	1	1	2	2	11	15	23	28	22	18	17	17	12	8	6	8	14	14	14	43	12
30	23	14	19	23	21	29	20	16	17	21	21	18	28	15	13	7	4	3	1	1	0	0	1	0	13
31	0	0	0	0	0	1	2	3	3	6	1	2	0	1	1	0	0	0	0	0	0	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	
2	1	2	1	5	8	18	22	0	-	43	0	-	13	2	100	0

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION  
POLLUTANT : NITROGEN DIOXIDE

MONTH: JULY

YEAR : 2017

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	2	2	5	12	13	6	2	6	9	2	2	2	1	3	2	0	2	4	4	3	4	14	7	5
2	7	0	5	7	10	3	9	4	2	4	4	3	9	5	4	5	12	13	13	18	14	1	7	8	7
3	6	6	1	1	0	3	10	5	3	5	3	2	5	12	7	2	7	11	23	13	10	6	11	7	7
4	0	0	0	0	1	8	17	1	M	3	1	2	0	0	2	19	2	2	3	3	4	4	3	4	3
5	4	4	3	13	6	4	4	5	3	2	2	0	1	1	1	1	4	6	2	7	3	3	4	6	4
6	2	2	2	3	4	2	5	8	7	6	14	9	10	10	7	7	7	8	9	11	11	7	11	6	7
7	6	4	6	4	7	9	12	8	11	8	4	4	3	4	5	6	16	17	13	15	11	8	8	6	8
8	7	8	2	6	11	4	8	9	8	4	12	4	7	10	12	7	8	14	11	M	13	8	11	15	9
9	15	12	8	13	8	12	17	13	6	9	9	7	5	4	6	6	5	10	6	5	8	9	7	7	9
10	9	18	19	12	16	16	11	11	7	10	8	6	3	3	4	3	6	6	7	10	11	8	15	31	10
11	24	11	12	9	11	7	8	9	6	4	4	9	3	2	4	4	6	9	8	13	6	11	12	6	8
12	6	5	7	4	5	6	5	2	8	5	4	5	3	4	3	3	4	4	8	4	10	12	11	9	6
13	4	4	3	2	4	3	2	6	5	4	3	4	4	3	4	4	4	6	7	9	5	4	5	5	4
14	2	2	3	1	0	3	4	6	5	4	4	3	2	2	2	2	1	4	5	9	5	6	7	8	4
15	5	4	3	1	1	1	5	3	1	3	3	2	2	2	2	3	6	4	5	4	4	2	3	4	3
16	3	4	1	5	2	2	6	2	3	1	3	3	5	4	2	2	2	2	3	1	2	1	2	2	3
17	1	0	1	1	1	2	2	4	2	6	7	2	2	4	3	7	3	6	6	7	5	5	3	3	3
18	3	5	3	3	2	4	1	2	3	8	8	2	3	6	5	7	6	4	4	8	3	4	6	19	5
19	4	3	2	3	4	5	6	4	3	4	4	4	3	4	4	6	9	7	6	6	12	7	4	8	5
20	5	2	2	3	3	3	3	3	4	6	4	M	2	2	1	2	2	6	3	3	2	3	6	3	3
21	3	3	3	1	1	2	2	2	3	1	1	1	2	1	2	M	2	2	3	2	3	3	4	0	2
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	M	3	2	2	1	0
23	3	1	0	0	0	0	2	4	9	9	7	6	8	8	0	0	0	0	0	0	0	0	0	0	2
24	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
25	0	0	1	0	0	0	0	2	1	1	1	0	0	1	0	0	0	3	4	8	10	4	1	2	2
26	1	2	3	2	0	0	0	4	17	9	1	1	0	0	1	1	3	7	4	5	7	7	1	4	3
27	1	0	0	0	0	0	0	0	1	3	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	7	3	3	8	6	8	1	2
29	0	0	0	0	0	0	0	1	20	31	35	47	67	51	49	43	37	25	18	36	46	32	29	96	28
30	77	52	76	76	74	69	60	52	54	64	70	57	79	61	44	22	25	17	11	8	5	3	11	2	45
31	2	2	2	3	5	10	9	13	14	12	5	11	2	4	5	4	3	2	2	3	2	3	1	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		
5	4	7	4	12	19	52	68	0	-	96	0	-	45	3	99	0

NOTES:

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

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

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

MONTH: JULY

YEAR : 2017

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
2	2	2	2	3	5	13	16	0	-	18	0	-	11	2	100	0

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

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

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017  
UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
8	8	10	8	18	24	32	37	0	-	43	2	-	27	2	99	0

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

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

STATION : POK FU LAM  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017  
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	5	3	7	7	6	4	6	12	6	5	6	3	4	2	4	3	2	2	1	2	4	4	4
2	6	1	1	4	3	2	2	1	2	2	4	1	1	0	1	2	3	3	5	3	3	3	2	3	2
3	2	2	1	1	0	2	2	3	3	2	0	0	0	2	1	0	0	4	4	0	0	0	0	3	1
4	1	1	1	0	1	3	2	2	2	4	6	3	1	2	1	1	6	3	0	0	0	0	0	1	2
5	1	0	0	0	0	0	1	1	1	0	1	1	1	0	0	0	2	0	0	0	0	0	0	0	0
6	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
7	0	0	0	0	2	3	3	2	0	2	0	0	4	0	0	1	1	1	4	1	2	1	0	0	1
8	0	0	0	0	1	0	1	0	0	1	0	0	0	1	1	1	2	2	2	2	1	1	1	3	1
9	7	5	5	1	3	5	7	6	7	4	6	1	2	1	2	6	6	5	0	0	2	2	2	3	4
10	3	6	7	5	5	7	4	2	7	9	4	5	6	1	2	4	6	2	4	5	7	7	13	19	6
11	6	5	6	2	2	4	4	4	4	5	12	6	5	3	1	0	2	2	2	1	0	0	1	1	3
12	2	1	2	2	2	2	2	1	3	5	2	1	2	0	1	0	1	0	0	0	1	1	2	2	1
13	1	1	1	1	1	1	1	3	4	9	6	2	1	1	1	1	1	1	0	1	0	0	0	1	2
14	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0	1	0	1	0	0	0	0	0	1	0
15	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	2	11	10	1	0	0	0	0	0	0	0	0	0	0	1
18	0	1	0	1	1	0	1	1	1	1	0	0	0	0	1	0	1	1	0	1	0	0	2	0	1
19	0	0	0	3	5	4	6	2	1	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	1
20	4	10	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
21	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
22	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2	1	1	0
23	12	7	16	11	4	4	2	2	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	3
24	1	1	1	1	1	1	1	1	2	8	1	1	1	1	1	1	0	1	1	1	1	2	1	0	1
25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	2	2	1	0
26	0	0	5	14	5	1	3	20	39	28	22	25	17	7	2	1	2	2	3	3	6	13	4	9	
27	7	2	1	1	1	1	1	1	1	2	4	1	1	0	1	1	0	0	0	0	0	0	0	1	1
28	0	0	0	1	1	1	0	1	2	0	1	1	0	0	4	6	11	7	7	6	3	5	5	8	3
29	4	4	3	2	2	2	5	21	25	27	18	24	29	32	26	32	31	10	9	7	13	13	12	13	15
30	21	28	33	30	41	38	34	40	38	41	42	32	33	17	21	13	19	9	7	5	4	4	5	1	23
31	0	1	0	2	3	6	11	8	10	17	6	3	4	3	1	1	0	1	0	0	1	0	0	4	3

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
3	1	3	1	7	13	29	34	0	-	42	0	-	23	3	100	0

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

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

STATION : POK FU LAM  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	13	12	12	6	17	17	13	7	12	15	13	21	9	7	9	6	8	10	16	15	16	14	26	14	13
2	14	M	10	15	8	7	13	13	11	12	10	13	13	12	12	12	11	13	21	13	17	15	11	17	13
3	14	9	6	3	3	11	9	12	15	12	8	16	14	22	9	6	9	20	26	9	3	4	8	12	11
4	5	2	4	3	6	20	18	16	21	24	19	15	9	13	20	28	28	39	17	9	7	8	8	4	14
5	3	2	2	3	6	4	6	11	9	8	7	8	9	4	3	4	15	10	5	4	3	3	4	6	6
6	2	1	1	2	4	2	2	5	8	9	12	15	11	7	9	10	20	14	7	8	6	5	5	4	7
7	5	4	5	5	14	16	17	15	14	17	7	7	16	14	16	17	17	19	24	11	16	10	12	8	13
8	6	11	8	11	10	6	7	7	17	21	17	17	10	15	12	17	19	20	21	27	18	9	8	14	14
9	29	23	25	12	17	19	22	16	13	12	14	4	3	4	5	8	9	9	13	17	19	17	15	14	14
10	15	17	18	15	17	18	17	16	21	15	8	9	9	6	5	6	12	10	17	21	21	23	34	35	16
11	19	14	19	14	8	12	11	11	13	15	15	12	10	8	7	7	10	12	14	11	8	10	10	4	11
12	6	4	5	6	4	6	9	14	23	27	17	14	13	9	10	10	11	11	8	11	13	12	13	8	11
13	6	3	2	1	2	6	8	17	17	17	20	7	5	3	3	3	4	6	6	7	4	4	3	4	7
14	2	3	2	2	1	2	5	7	7	7	9	8	3	4	4	4	6	5	4	4	3	3	3	6	4
15	6	3	3	2	3	5	8	7	5	6	4	5	5	6	5	5	5	4	3	4	4	4	2	3	4
16	1	M	1	2	1	1	3	2	2	2	11	2	10	2	2	2	7	10	9	7	6	5	4	4	4
17	3	3	3	2	2	3	5	8	7	11	17	19	14	9	16	12	12	16	9	12	10	7	10	5	9
18	3	4	3	4	3	3	5	6	8	9	10	7	6	6	7	8	17	20	18	9	4	25	40	27	11
19	21	15	19	36	36	23	21	15	10	7	6	7	5	9	7	8	10	13	10	20	36	19	13	20	16
20	28	30	18	7	6	6	7	10	8	6	5	5	6	5	7	8	7	6	9	8	7	7	6	4	9
21	2	7	6	6	4	5	7	7	10	8	8	7	9	8	6	6	8	11	9	11	14	11	16	11	8
22	9	7	5	5	4	6	6	8	10	13	15	10	7	7	6	7	8	9	8	8	11	14	13	21	9
23	36	35	44	51	37	41	40	35	28	21	20	24	18	14	5	4	4	5	6	7	4	18	15	12	22
24	17	10	1	2	1	1	4	11	9	19	7	5	6	5	8	6	8	20	19	13	9	6	3	5	8
25	4	5	5	6	5	5	7	8	6	8	10	11	10	10	9	12	14	18	22	20	17	16	27	12	11
26	9	10	26	35	25	18	28	32	41	41	35	31	28	15	15	14	13	15	14	23	33	37	37	22	25
27	23	9	5	5	6	5	8	25	28	33	30	33	29	14	15	13	15	14	18	14	11	10	7	10	16
28	6	5	5	5	5	5	7	10	16	14	15	12	14	20	28	26	25	21	28	39	25	26	31	36	18
29	12	10	7	6	5	6	15	39	49	47	37	48	70	72	66	73	69	33	45	41	57	49	60	63	41
30	70	M	92	87	83	76	68	67	68	71	81	75	72	50	58	46	52	22	27	18	34	18	14	14	55
31	14	18	15	17	18	26	40	31	47	52	36	22	19	18	12	14	11	13	10	10	21	13	12	14	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		
10	10	14	10	28	40	67	72	1	-	92	4	-	55	2	100	0

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

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

STATION : AP LEI CHAU  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017  
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	5	7	4	24	11	11	6	8	12	8	7	6	3	3	4	1	4	6	6	3	7	17	7	7
2	6	4	4	5	6	3	9	9	2	1	4	4	5	5	4	8	6	6	16	8	21	11	2	5	6
3	T	T	T	T	T	T	T	T	T	T	3	5	5	16	13	16	25	23	25	16	10	4	7	9	
4	1	M	1	1	7	28	24	9	7	8	3	11	0	1	13	15	23	9	3	0	0	1	0	0	7
5	0	2	1	1	7	3	4	9	3	1	1	1	2	0	0	0	8	2	0	3	0	0	0	2	2
6	0	0	0	0	2	0	0	0	0	1	4	13	3	1	2	3	9	10	2	4	1	1	0	0	2
7	0	1	1	1	5	16	6	6	2	10	3	2	3	4	8	8	6	14	15	5	12	4	6	11	6
8	7	7	1	21	7	6	11	5	14	14	13	2	12	6	6	4	7	17	19	17	14	5	2	6	9
9	19	24	20	8	19	14	16	7	12	3	3	5	3	0	1	3	10	5	3	3	9	9	4	7	9
10	9	9	13	7	13	7	12	4	12	12	2	4	6	2	1	6	13	8	4	12	17	24	23	31	10
11	12	12	16	7	7	14	10	5	0	6	3	5	1	4	0	0	0	1	1	9	1	4	3	0	5
12	1	0	2	2	0	2	7	10	3	11	3	1	0	0	0	0	0	0	1	2	6	6	2	2	
13	2	3	4	4	4	5	8	7	4	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	2
14	0	0	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0
15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	3	0	4	0	0	0	0	0	2	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	4	4	9	15	2	5	3	1	2	5	4	4	0	6	0	3
18	0	M	0	1	0	0	2	3	0	0	1	0	0	0	0	4	9	8	9	10	10	13	28	22	5
19	14	8	6	0	4	3	9	8	1	0	0	0	0	0	0	0	0	5	2	9	14	8	5	9	4
20	9	8	4	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0
22	0	0	0	0	0	1	3	3	1	4	4	3	1	0	0	0	0	0	0	0	6	10	4	4	2
23	23	31	38	22	2	7	10	12	21	12	8	16	9	13	1	0	0	0	0	0	0	5	2	1	10
24	2	1	0	0	0	0	1	6	1	0	0	0	0	0	0	0	0	5	2	0	0	1	0	0	1
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	8	16	10	4	2
26	5	10	16	19	16	9	20	27	37	38	37	19	5	1	0	0	2	5	5	14	14	10	10	13	
27	6	2	0	0	1	4	8	8	13	20	21	16	13	3	6	2	3	5	1	0	0	0	0	1	6
28	0	0	1	0	0	0	4	8	10	8	6	4	5	6	6	3	11	28	14	8	8	13	15	5	7
29	4	6	0	0	0	2	7	12	32	51	40	45	65	64	67	94	76	48	46	47	52	39	42	56	37
30	46	60	77	87	89	80	71	65	67	68	78	64	78	81	82	45	66	32	15	15	34	15	26	13	56
31	11	29	5	12	4	19	24	19	33	47	23	27	20	14	15	9	15	9	6	4	18	18	6	9	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		
6	3	8	3	19	35	65	78	0	-	94	0	-	56	3	98	0

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

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

STATION : AP LEI CHAU  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017  
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	7	11	7	36	11	9	12	22	22	10	8	16	6	6	7	3	5	6	8	3	6	17	10	11
2	11	4	6	8	7	6	15	15	8	4	11	5	4	6	5	12	8	11	15	8	15	11	5	7	9
3	T	T	T	T	T	T	T	T	T	T	3	5	7	11	5	7	9	15	9	4	3	3	6	7	
4	2	1	4	1	5	20	12	4	4	3	1	19	2	2	5	1	2	1	1	1	1	1	0	2	4
5	2	3	2	2	4	2	2	3	3	2	2	1	0	1	2	1	4	1	1	2	1	1	1	2	2
6	1	1	2	2	3	2	2	2	1	2	3	9	6	3	2	5	8	4	3	5	3	3	2	1	3
7	2	1	2	3	7	19	9	9	4	10	3	5	3	1	2	6	8	13	12	5	6	4	2	11	6
8	9	8	4	15	8	8	11	8	12	18	7	4	4	8	10	10	14	21	18	16	17	8	7	12	11
9	25	33	20	11	26	20	31	20	33	8	9	8	7	3	6	9	21	8	10	6	9	10	7	11	15
10	13	17	18	11	17	6	13	9	26	33	11	14	10	4	3	7	14	5	5	10	8	14	23	32	13
11	8	11	20	7	11	16	13	17	11	21	11	11	6	9	3	1	4	6	4	8	3	5	4	2	9
12	4	2	5	4	2	4	5	6	1	6	2	1	1	1	1	2	1	2	3	2	4	6	6	4	3
13	3	1	1	2	2	2	1	2	3	3	2	1	1	2	2	2	2	2	3	4	3	2	1	2	2
14	2	2	2	2	1	3	4	5	5	4	3	2	3	2	3	2	1	3	3	3	2	2	2	4	3
15	4	2	3	2	1	2	2	2	1	3	2	1	2	1	0	1	2	2	1	1	1	1	0	2	2
16	1	2	1	2	2	2	3	2	1	2	7	1	5	1	1	1	2	1	1	1	1	1	1	3	2
17	2	1	3	2	2	2	2	3	2	3	7	22	23	4	5	4	2	2	4	3	4	1	4	1	5
18	2	2	2	3	2	2	3	2	1	1	1	1	1	2	2	0	6	5	6	4	1	0	7	1	2
19	0	0	0	0	1	1	2	2	1	1	1	1	0	0	1	1	3	3	2	1	2	1	2	2	1
20	3	2	2	2	2	2	1	2	3	3	3	3	2	2	2	2	1	1	2	2	2	2	3	2	2
21	1	2	3	3	2	2	2	2	1	1	1	1	2	2	2	2	1	2	2	1	2	2	2	2	2
22	1	2	1	1	1	1	1	1	1	2	1	2	1	1	1	2	4	5	3	3	4	6	4	3	2
23	11	24	50	12	4	3	3	2	3	2	2	4	2	7	4	2	1	1	1	1	1	4	2	1	6
24	1	0	1	1	1	1	2	3	3	2	1	1	0	2	1	3	1	1	1	1	1	3	2	2	1
25	2	2	2	3	2	2	2	3	3	2	1	2	2	2	1	2	2	3	3	4	9	8	6	5	3
26	3	2	13	15	8	9	13	30	59	55	70	23	5	3	3	4	7	5	7	7	6	6	4	6	15
27	5	4	3	3	2	3	2	2	3	6	10	3	3	2	3	3	3	2	2	1	0	1	1	2	3
28	1	1	1	0	0	1	1	1	2	2	1	0	0	1	2	2	5	13	11	4	7	7	7	5	3
29	4	3	3	2	2	3	3	4	14	23	26	29	30	31	32	55	36	18	20	23	26	18	13	17	18
30	15	27	31	33	45	40	34	37	40	36	45	34	38	34	39	18	25	15	7	8	10	7	9	4	26
31	6	13	5	8	6	14	19	18	15	29	10	11	9	10	8	5	8	6	3	3	10	9	4	9	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
4	3	6	3	16	25	35	40	0	-	70	1	-	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  
MONTH: JULY

STATION : CHEUNG CHAU  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017  
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	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	2
4	1	0	0	0	0	0	0	0	1	2	5	0	0	0	0	0	0	0	0	0	0	1	1	2	1
5	1	2	1	0	0	0	1	3	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	1	1
6	0	0	0	0	1	0	0	1	0	0	0	1	2	2	0	0	0	0	2	1	1	0	0	1	1
7	0	0	0	0	0	0	0	0	0	0	0	0	M	0	0	0	0	0	0	0	1	2	0	0	0
8	0	0	0	0	0	0	0	0	1	0	0	0	0	1	3	1	0	0	0	0	0	0	0	1	0
9	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	1	0
10	0	0	0	2	4	3	2	2	2	2	3	0	0	0	0	0	1	0	0	1	0	0	0	1	1
11	0	0	0	0	0	0	4	7	4	3	2	1	1	0	2	4	0	0	0	1	1	1	4	4	2
12	3	5	2	2	2	3	2	4	11	8	4	2	1	1	2	2	5	4	1	0	1	5	3	5	3
13	3	4	4	3	2	2	6	9	7	8	3	2	0	1	2	2	3	2	1	0	1	0	0	1	3
14	0	0	0	0	0	0	0	3	2	2	0	1	1	0	1	0	1	1	1	1	0	0	3	2	1
15	2	0	1	1	0	1	2	2	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0	2	1
16	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	1	1	0	0	1	2	0
17	0	0	1	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	1	1	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	1	0	0
19	0	1	0	0	0	1	3	4	6	3	1	1	0	0	5	6	4	4	2	1	1	1	0	1	2
20	1	1	2	1	0	1	2	2	2	1	3	2	1	0	0	0	0	0	2	1	0	0	0	1	1
21	1	1	1	1	2	2	0	2	1	4	2	1	2	1	0	0	0	0	1	2	0	0	0	3	1
22	1	0	0	0	0	1	0	1	4	6	2	7	1	1	0	0	1	3	2	1	1	0	0	4	2
23	2	2	1	1	1	1	2	1	1	0	0	0	0	1	12	3	0	0	0	0	0	0	0	0	1
24	0	0	2	2	1	0	1	3	7	5	1	4	3	2	3	4	1	1	1	0	0	1	3	3	2
25	1	1	2	1	1	3	1	1	2	3	4	7	16	10	3	2	4	2	2	4	5	7	6	5	4
26	3	6	4	4	2	3	4	8	10	8	8	10	5	5	6	12	9	7	9	7	4	4	6	10	6
27	6	3	6	2	1	2	2	2	3	3	4	2	2	2	1	2	3	2	0	1	0	0	1	2	2
28	0	1	1	0	0	0	0	3	3	2	2	4	0	1	2	2	5	8	5	8	9	5	8	7	3
29	5	4	3	3	2	2	5	6	7	3	6	7	13	19	16	14	8	5	3	3	3	3	2	5	6
30	3	7	7	6	11	12	16	19	17	16	16	14	9	11	11	18	14	1	0	0	0	0	0	2	9
31	0	0	0	2	3	3	4	7	15	8	6	3	2	2	M	2	1	1	2	1	1	1	1	0	3

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
2	1	2	1	5	8	12	16	0	-	19	0	-	9	2	100	0

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

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

STATION : CHEUNG CHAU  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	3	1	1	13	12	4	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	4	1	4	1	1
3	0	0	0	0	0	0	0	0	1	0	0	0	4	5	10	18	9	3	8	0	1	9	14	7	4
4	7	5	0	3	0	0	4	10	24	29	36	10	0	0	3	9	14	11	9	5	6	20	26	26	11
5	25	26	15	9	5	16	14	22	15	6	5	4	4	3	0	0	0	14	8	5	7	0	0	3	9
6	2	1	0	1	5	4	1	6	0	3	2	2	1	4	1	0	0	0	13	10	9	3	0	5	3
7	6	1	0	0	0	1	0	0	1	0	0	0	M	0	0	1	2	0	0	1	4	15	1	4	2
8	3	2	2	2	1	3	4	7	5	2	1	2	10	21	26	17	1	2	2	2	7	7	7	5	6
9	8	3	0	1	1	2	1	5	2	1	1	1	0	0	0	0	0	1	1	0	1	2	0	1	1
10	1	4	6	7	14	18	11	14	5	2	5	1	0	0	0	0	0	0	0	4	1	2	2	1	4
11	0	4	2	2	2	5	18	18	12	5	2	0	0	0	0	0	0	0	0	2	2	4	11	12	4
12	11	M	15	9	15	21	23	20	23	27	15	8	2	1	1	1	3	4	2	2	3	13	10	11	10
13	12	21	27	22	18	21	25	25	24	28	12	2	0	0	0	0	4	2	1	0	4	0	1	3	11
14	1	1	1	0	4	2	2	8	2	2	0	0	0	0	0	0	1	2	1	2	1	0	7	8	2
15	4	1	4	7	1	3	4	7	0	0	0	0	0	0	3	6	1	0	1	1	0	2	0	6	2
16	10	2	0	0	1	0	0	2	0	0	0	2	2	1	1	1	1	8	8	8	7	5	6	6	3
17	5	9	8	9	11	13	8	15	9	17	18	11	3	1	1	1	1	1	1	1	1	1	1	1	6
18	0	0	0	1	0	9	7	0	4	5	8	2	13	18	19	2	0	0	0	0	1	19	31	12	6
19	2	8	28	25	23	26	27	23	23	20	5	1	1	1	7	6	6	9	8	5	11	11	10	12	12
20	21	22	22	14	11	18	20	13	6	4	4	2	2	2	2	2	2	2	5	5	4	2	2	3	8
21	1	3	5	13	19	16	6	4	8	6	2	4	4	0	0	0	0	0	0	7	4	2	5	10	5
22	9	5	4	1	0	9	12	17	21	25	21	23	7	5	0	0	0	1	1	1	2	1	13	7	
23	20	23	22	23	13	22	38	33	27	31	22	16	12	10	21	5	0	0	1	6	1	5	21	15	16
24	21	27	32	31	27	18	21	24	26	21	3	2	0	0	0	0	0	8	4	0	2	8	6	12	
25	1	3	14	14	11	16	9	6	4	3	2	4	10	14	2	3	2	6	5	18	26	18	19	15	9
26	19	M	26	14	20	22	25	27	22	23	28	22	9	3	3	14	5	5	10	13	11	10	35	39	18
27	33	13	10	11	18	19	15	10	16	23	20	26	30	44	11	8	12	16	8	13	9	6	12	7	16
28	1	3	6	2	0	11	18	23	26	28	35	36	23	32	8	9	10	13	18	19	23	12	17	36	17
29	12	12	27	28	20	24	33	32	38	30	42	31	38	38	37	47	22	10	14	38	65	82	100	72	37
30	89	53	47	66	53	43	52	56	54	41	33	31	29	30	26	11	23	9	4	4	1	2	4	3	32
31	0	0	0	1	5	4	4	12	46	33	9	5	1	1	M	4	4	3	5	3	3	2	3	2	7

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
6	4	9	4	25	32	43	54	0	-	100	1	-	37	3	99	0

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

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

STATION : VICTORIA PEAK  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017  
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	0	0	0	0	3	5	1	1	1	0	0	1	1	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	4	10	5	13	7	3	0	1	2	
4	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	4	0	
5	1	0	1	1	1	3	1	0	0	0	0	2	1	1	1	4	9	2	2	0	2	5	3	4	2	
6	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	1	2	1	0	0	1	2	1	1	1	
7	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	
13	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	1	1	1	1	0	
15	0	0	0	0	0	1	1	0	2	4	1	3	2	5	3	4	2	0	2	1	1	0	0	2	1	
16	2	3	4	3	2	1	1	1	1	1	0	1	0	0	0	0	1	2	2	2	2	2	1	16	2	
17	1	3	0	0	2	1	3	4	1	0	1	3	5	9	2	3	5	2	0	0	1	0	1	1	2	
18	1	6	6	3	0	0	4	6	6	10	29	17	4	5	3	4	4	2	2	1	4	6	4	4	5	
19	7	8	5	1	2	2	2	3	1	2	16	14	6	16	14	10	11	10	11	9	9	16	4	5	8	
20	9	6	2	2	1	0	0	1	1	3	1	0	2	3	4	4	10	6	4	1	3	3	3	2	3	
21	2	2	3	1	1	0	0	3	11	9	15	21	17	12	16	22	35	18	12	17	12	5	3	2	10	
22	1	1	1	5	9	8	9	10	13	17	21	33	17	24	23	9	1	0	1	0	0	0	0	0	8	
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	0	0	
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
26	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	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	0	0	
28	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	0	1	1	1	1	0	0	1	0	1	7	11	5	4	5	8	5	4	10	9	8	9	8	8	4	
30	8	9	9	11	5	6	6	6	6	8	21	13	17	8	10	17	10	6	3	4	2	2	5	6	8	
31	6	3	2	2	3	3	4	4	4	7	13	20	19	22	24	22	29	28	16	1	1	7	12	6	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		
3	0	2	0	8	12	19	23	0	-	35	0	-	11	3	100	0

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

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

STATION : VICTORIA PEAK  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	6	22	18	22	16	7	9	10	12	10	10	9	9	10	36	38	24	18	23	19	23	11	8	16
2	7	8	6	12	13	8	10	13	11	12	12	11	9	17	23	25	46	63	53	43	35	34	37	13	22
3	19	8	6	13	2	2	2	9	6	11	19	16	22	16	16	35	35	47	34	59	43	22	15	5	19
4	1	2	5	6	6	6	16	5	12	19	16	19	14	15	22	20	17	25	24	24	39	33	22	18	16
5	11	4	4	7	12	18	12	6	7	16	21	18	12	16	17	24	37	28	30	27	44	40	30	26	19
6	12	6	5	4	8	14	9	9	9	9	7	9	11	12	9	15	17	20	23	33	25	45	28	18	15
7	10	7	10	6	6	4	7	6	6	11	14	15	8	7	7	10	13	19	15	19	26	27	16	14	12
8	9	10	10	4	4	5	5	10	7	10	13	7	6	6	13	14	20	18	17	23	19	21	19	11	12
9	10	12	6	10	7	8	20	21	14	18	20	12	12	13	9	10	14	11	11	17	19	14	18	18	14
10	19	21	26	18	10	9	7	12	15	15	15	11	17	8	11	13	19	27	17	23	16	22	13	15	16
11	11	4	7	8	7	8	10	15	16	11	14	9	7	17	22	15	21	23	22	20	19	23	19	15	14
12	12	10	8	7	8	8	14	15	17	30	19	9	7	5	5	16	19	22	26	29	30	32	39	13	17
13	8	6	4	8	9	12	14	13	9	6	6	11	16	5	12	7	14	17	20	21	12	30	23	9	12
14	8	8	7	9	4	6	8	6	8	10	7	6	5	5	11	12	12	16	22	18	19	20	20	8	11
15	5	8	7	4	4	9	9	6	12	14	11	13	8	22	18	18	10	13	22	23	25	26	19	12	13
16	10	11	15	14	10	9	8	9	8	6	4	8	8	6	9	14	11	13	28	28	21	30	29	45	15
17	11	17	2	2	5	9	8	11	21	13	8	5	18	30	30	24	18	30	34	28	27	33	21	19	18
18	21	14	10	7	3	2	27	35	37	33	37	26	18	22	24	24	31	33	21	20	27	19	12	13	22
19	17	23	17	7	9	10	12	9	6	14	24	26	23	38	27	27	35	33	30	52	40	49	50	23	25
20	26	23	11	8	9	3	5	7	8	15	12	12	13	15	13	14	24	23	25	25	21	19	18	8	15
21	9	6	8	7	8	7	6	10	23	30	41	46	41	27	31	48	79	71	53	101	80	26	21	13	33
22	13	5	6	18	33	27	34	45	60	85	105	122	84	116	111	51	18	27	36	18	24	25	18	18	46
23	21	18	10	9	6	6	5	5	4	3	5	4	3	2	2	2	3	3	3	5	4	4	4	5	6
24	4	4	2	2	3	5	5	6	7	9	9	10	6	6	7	7	7	7	7	5	3	4	5	3	6
25	6	4	4	4	6	5	4	6	9	7	7	8	4	7	7	8	9	10	13	10	5	7	6	15	7
26	14	13	8	5	5	7	10	15	18	16	8	7	6	8	11	12	14	22	18	16	14	6	8	7	11
27	7	3	3	2	2	2	1	1	1	0	0	1	1	1	3	3	8	6	4	5	8	4	12	18	4
28	11	13	5	5	9	6	6	8	11	13	15	17	15	22	25	20	21	18	15	11	11	12	7	10	13
29	8	9	6	7	6	7	7	10	17	27	45	46	32	23	28	35	26	29	51	52	62	60	30	18	27
30	24	26	43	86	37	25	23	23	38	52	73	60	62	42	40	64	36	30	21	25	27	9	17	15	37
31	11	3	21	12	20	27	29	19	22	47	47	47	58	63	67	64	65	77	56	19	12	21	23	13	35

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	13	18	13	35	47	64	82	0	-	122	4	-	46	2	100	0

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

MONTH: AUGUST

YEAR : 2017

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	0	1	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	7	6	9	4	10	7	5	3	5	7	3
3	8	8	6	2	0	0	0	0	0	0	0	0	0	0	0	3	11	13	11	8	9	14	11	8	5
4	5	6	8	7	6	5	2	0	0	0	0	0	1	1	3	4	20	14	6	8	10	10	6	7	5
5	6	4	4	5	6	6	4	8	5	4	4	3	1	3	4	2	3	2	1	2	3	2	3	3	4
6	4	1	1	1	2	2	1	4	5	6	3	5	2	2	1	1	2	1	1	0	1	2	2	2	2
7	1	3	5	2	1	1	1	1	1	2	6	8	3	0	0	0	0	0	0	1	1	0	3	2	2
8	1	2	1	1	0	0	1	0	0	1	5	0	0	0	0	0	0	2	1	1	1	1	0	1	1
9	2	1	0	1	1	1	2	3	3	4	3	2	1	1	2	1	1	1	1	2	3	1	4	2	2
10	2	2	1	2	3	4	6	7	3	3	0	0	1	5	1	1	0	1	1	1	2	4	3	3	2
11	5	7	9	8	7	8	15	14	7	6	4	4	1	1	0	0	0	0	1	0	1	0	2	1	4
12	1	2	1	2	1	1	1	3	4	1	2	2	0	0	1	1	1	1	2	2	1	1	3	2	2
13	2	2	1	2	2	4	5	10	6	4	3	2	2	2	2	1	1	2	1	1	0	1	0	2	2
14	2	2	3	2	2	3	2	3	6	6	6	8	4	2	1	1	1	3	2	2	1	2	2	2	3
15	4	2	3	3	1	4	3	3	7	6	4	4	3	3	2	1	3	2	2	1	2	4	4	6	3
16	8	10	8	6	14	12	7	6	5	16	17	12	2	3	17	14	16	14	10	7	6	8	6	11	10
17	15	13	13	7	6	4	4	6	4	17	22	16	5	7	9	4	3	1	1	2	1	2	2	10	7
18	11	12	9	8	5	2	1	1	1	6	4	4	6	2	2	5	2	1	2	5	3	4	2	4	4
19	7	5	2	3	2	1	2	2	2	5	4	3	5	11	14	15	18	10	3	4	9	7	8	10	6
20	11	13	16	11	8	4	3	3	15	11	6	7	7	6	10	17	8	4	4	3	5	5	4	11	8
21	12	17	14	14	7	2	1	3	14	13	21	45	41	19	26	30	15	15	9	5	7	10	7	5	15
22	6	14	12	8	9	10	17	18	13	17	36	29	28	37	11	5	0	0	1	0	0	0	0	0	11
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	1	0	0	1	1	1	2	2	2	1	0	1	0	1	0	0	0	0	0	0	0	0	1	1
25	2	1	0	1	1	1	0	1	2	1	1	0	1	1	1	0	1	0	0	2	2	2	4	1	
26	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	2	1	0	1	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	1	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
29	1	1	1	0	0	0	0	0	14	53	47	66	46	29	32	19	9	15	12	23	17	18	11	18	18
30	31	17	10	7	8	8	10	10	26	40	39	29	21	17	19	29	9	14	12	12	1	4	6	10	16
31	11	10	12	5	3	1	4	8	6	27	77	54	29	15	16	15	21	23	40	5	3	5	9	8	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	
4	2	5	2	14	18	30	41	0	-	77	0	-	18	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: AUGUST

YEAR : 2017

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	1	2	4	4	1	4	1	1	6	11	8	3	4	5	8	5	4	7	7	7	8	4	4	5
2	6	2	4	8	6	3	7	8	9	5	6	5	8	19	30	30	26	19	35	23	14	4	9	14	13
3	13	14	12	4	0	1	0	2	1	5	1	0	0	0	1	5	16	21	19	22	25	28	13	15	9
4	7	8	9	8	6	4	3	0	4	3	1	1	4	2	2	4	18	21	8	13	24	32	9	8	8
5	4	2	2	3	8	7	4	5	3	4	0	0	0	2	3	0	2	4	6	M	12	7	7	7	4
6	3	1	0	1	4	4	2	4	5	5	1	5	2	5	3	8	11	11	15	9	10	11	12	7	6
7	2	8	13	2	0	0	0	1	2	4	6	6	5	1	1	2	1	2	4	12	16	10	25	11	6
8	12	12	2	2	0	0	1	0	0	0	4	0	0	0	0	2	6	5	6	14	12	9	5	5	4
9	5	2	0	3	1	2	4	6	6	3	2	1	3	1	8	3	4	2	3	6	11	3	15	10	4
10	6	5	2	8	18	9	7	9	5	8	0	0	2	13	5	8	7	11	13	8	14	16	13	7	8
11	7	4	6	15	14	13	20	12	4	1	6	4	2	1	3	2	4	7	10	12	17	7	20	6	8
12	5	7	6	6	4	7	10	8	8	2	4	3	1	0	4	4	6	6	11	22	6	4	15	6	6
13	5	8	6	12	6	16	11	11	3	3	3	2	3	3	4	2	4	5	11	15	8	6	1	6	6
14	6	5	6	5	6	10	1	4	4	8	8	5	4	3	2	6	7	7	6	12	9	10	8	8	6
15	11	3	2	2	0	6	5	0	3	1	6	9	1	1	2	1	4	4	7	3	4	11	8	12	4
16	12	14	7	6	15	16	3	1	1	14	15	12	3	15	43	17	15	13	19	19	17	6	11	16	13
17	25	17	15	5	4	2	4	7	6	23	29	21	14	37	30	30	13	7	1	2	0	0	9	9	13
18	9	15	6	7	0	0	0	0	7	5	5	3	2	2	3	5	1	1	2	10	2	1	0	4	4
19	7	5	0	1	0	0	0	0	0	1	0	1	1	6	11	8	10	14	6	10	25	17	18	11	6
20	9	14	24	16	7	3	2	4	14	8	7	12	10	6	15	28	18	15	21	13	14	11	6	20	12
21	27	25	20	23	15	9	4	5	22	33	49	61	76	53	61	60	37	30	24	21	17	15	15	19	30
22	15	16	19	8	11	13	34	33	38	61	106	110	97	105	57	34	1	0	2	1	0	0	0	4	32
23	5	M	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
24	2	4	2	0	5	8	6	11	9	11	8	5	7	8	6	5	3	7	5	3	2	7	8	6	6
25	4	0	0	0	2	0	0	2	3	2	3	1	0	12	12	11	8	2	0	0	2	0	1	13	3
26	7	6	3	2	1	3	9	10	5	5	2	2	3	4	7	7	6	3	5	3	3	1	1	0	4
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	1	0	2	4	3	7	6	2	4	4	7	0	1	3	6	12	5	1	1	1	3
29	2	1	1	0	0	0	0	2	8	27	23	31	33	26	33	38	39	32	36	62	63	62	74	81	28
30	80	84	59	37	27	21	20	20	41	70	76	57	50	51	67	67	38	36	23	27	9	12	13	16	42
31	13	13	28	13	10	9	18	41	40	62	94	84	67	50	57	40	62	56	69	40	23	32	34	29	41

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
7	6	11	6	27	41	67	81	0	-	110	0	-	42	3	100	0

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

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

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017  
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	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	1	1	2	2	1	1	1	1	2	1	1	2	2	2	2	3	3	3	2	2	2	2	2	2	2
3	1	2	2	2	1	1	1	2	2	1	2	1	1	1	3	4	3	2	3	2	2	2	1	1	2
4	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	2	2	3	2	2	2	4	2	1	1	1	2	2	2	2	2
6	1	1	1	1	1	1	1	1	2	2	2	1	2	2	2	2	2	2	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	2
8	2	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	2	1	2	1	1	1	1	1
9	1	1	1	1	1	1	2	1	1	1	2	2	1	1	1	1	2	2	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	0	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	0	1	1	1	1	1	1	1	1	1
12	0	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	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
14	1	1	1	1	1	1	1	0	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
15	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1	2	1	0	1	1	2	2	1	0	1	1	1	2	1
17	1	1	1	1	1	1	1	1	1	2	1	2	2	2	4	3	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	3	3	8	5	3	3	5	3	3	2	1	1	1	1	1	1	2
19	0	1	1	1	1	1	1	1	1	3	7	2	2	6	6	5	4	3	2	1	1	1	1	1	2
20	1	1	1	1	1	1	1	1	1	2	1	1	3	2	3	5	M	2	1	1	1	1	1	1	1
21	0	0	0	0	0	0	0	1	1	1	2	7	5	3	6	6	6	2	1	0	0	0	0	1	2
22	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	0	1
24	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
25	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	2	1	0	1	0	0	0	1	1	1
26	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	0	1	1	1
27	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
28	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	0	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1	1	2	3	5	3	3	2	2	4	2	1	1	1	1	1	1	1	2
30	1	1	1	2	1	1	1	1	3	4	3	2	4	2	2	2	1	1	1	1	0	0	1	1	2
31	1	0	1	1	0	1	1	1	1	3	6	3	3	3	4	6	7	5	2	1	1	1	1	1	2

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
1	1	1	1	2	3	5	6	0	-	8	0	-	2	2	100	0

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

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

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017  
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	4	5	6	14	10	4	8	8	13	11	8	7	4	6	12	9	9	8	11	6	12	7	9	8
2	8	6	8	9	10	6	7	14	12	11	8	7	9	12	10	18	20	20	19	13	12	9	9	13	11
3	10	11	10	9	4	4	6	18	16	15	14	10	14	14	21	24	30	24	28	25	20	16	13	14	15
4	6	5	3	2	2	2	11	9	17	24	13	14	12	8	10	14	8	15	21	21	21	15	13	13	12
5	7	4	4	4	7	10	8	8	9	14	12	12	10	10	9	14	7	6	9	10	14	13	17	14	10
6	11	7	5	4	2	6	8	5	6	7	8	5	5	7	6	9	8	11	10	8	9	10	7	7	7
7	6	7	8	3	2	3	7	6	5	7	8	9	6	5	3	4	4	7	9	12	7	12	13	11	7
8	10	9	10	2	1	4	5	10	8	10	9	5	3	2	6	5	7	12	8	11	8	7	5	7	7
9	4	M	1	2	1	3	9	9	9	15	12	6	3	3	5	5	7	2	4	4	7	3	10	13	6
10	14	11	10	10	7	6	7	7	9	7	6	6	6	3	5	7	12	14	12	12	12	10	12	13	9
11	8	4	9	6	6	7	22	17	15	10	12	8	3	13	9	7	9	13	14	18	15	12	24	17	12
12	16	12	12	8	7	6	11	12	11	18	14	5	6	5	5	10	12	12	13	17	14	17	15	13	11
13	10	11	7	9	9	11	13	13	10	9	11	11	9	8	9	8	10	12	11	15	9	13	14	11	11
14	11	10	10	9	6	8	10	9	10	11	9	10	7	9	8	6	9	10	12	13	12	13	13	13	10
15	10	7	7	4	4	5	8	8	10	12	11	10	9	9	6	12	8	8	13	12	10	8	12	12	9
16	11	9	8	7	7	6	6	7	7	7	8	10	9	6	7	8	9	10	14	16	13	12	13	16	9
17	12	12	6	4	4	4	5	7	9	8	5	9	8	9	25	11	13	16	12	13	11	11	14	19	10
18	11	12	10	8	7	5	9	11	15	18	24	23	14	14	24	14	17	10	13	15	16	14	11	9	14
19	8	12	9	5	5	7	6	7	9	12	17	14	15	22	20	15	15	15	7	15	21	20	16	15	13
20	17	16	10	9	7	7	7	9	11	15	15	10	16	14	19	27	M	16	16	14	17	13	13	9	13
21	8	9	7	6	4	4	5	9	14	20	28	38	51	33	40	53	63	41	29	32	30	21	19	16	24
22	12	9	8	8	16	19	22	26	39	54	69	84	81	97	58	51	18	12	22	10	12	20	23	11	33
23	13	M	10	6	4	4	5	8	22	23	4	3	2	3	3	4	4	3	4	3	4	3	4	9	6
24	6	6	4	4	3	4	6	9	6	6	6	M	M	M	M	M	7	16	16	11	8	8	10	14	8
25	8	5	5	5	6	7	8	10	12	12	10	10	10	8	10	M	10	11	16	12	10	13	15	21	10
26	35	35	23	15	22	22	10	12	13	11	7	5	5	6	8	9	9	15	12	8	8	5	5	4	13
27	4	1	1	0	0	0	0	1	1	0	1	1	2	3	8	10	8	6	10	10	8	9	19	19	5
28	20	12	4	5	12	13	13	18	23	16	21	24	24	29	26	18	18	10	9	8	9	9	8	10	15
29	5	5	6	5	4	3	4	8	11	16	21	17	13	13	23	35	24	17	25	39	37	31	35	48	19
30	47	35	34	47	37	16	15	19	29	42	42	44	50	31	35	36	23	27	24	35	33	33	15	20	32
31	26	21	14	11	10	13	20	23	29	34	35	34	37	39	46	53	55	67	59	35	37	43	32	32	34

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
10	10	13	10	24	35	49	57	0	-	97	5	-	34	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: AUGUST

STATION : POK FU LAM  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017  
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	1	3	1	0	0	3	2	4	4	2	2	7	3	6	4	5	1	2	2	3	3
2	3	3	2	1	2	2	2	4	2	2	3	5	3	4	2	8	9	8	2	1	2	2	2	4	3
3	5	4	4	3	1	0	0	0	0	0	0	0	0	0	22	27	25	16	18	13	11	5	2	2	7
4	0	0	0	2	2	2	1	0	0	5	0	0	0	0	1	6	5	4	2	2	4	1	2	5	2
5	2	1	2	3	3	4	4	2	1	9	7	10	2	5	4	13	7	6	9	5	8	10	8	5	5
6	9	3	2	4	0	3	6	5	7	4	8	2	8	6	5	14	10	8	4	3	4	5	4	6	5
7	2	7	9	4	2	3	2	0	0	3	8	13	5	5	2	3	0	2	2	3	2	3	3	6	4
8	6	4	3	1	2	3	3	2	0	4	14	3	1	1	4	0	2	9	3	3	4	3	1	6	3
9	4	3	2	4	5	4	5	3	1	2	6	4	3	2	3	1	4	2	1	1	4	4	4	4	3
10	2	3	0	1	1	1	1	2	2	1	1	1	1	0	0	3	6	5	5	3	2	2	3	6	2
11	5	2	3	5	2	4	5	5	4	3	6	5	2	3	3	3	2	2	4	4	2	6	4	4	4
12	6	6	5	4	3	1	2	7	3	4	4	3	5	1	4	6	6	3	8	5	6	4	3	2	4
13	2	2	2	3	4	4	9	8	5	5	3	3	2	6	3	5	2	5	1	7	1	6	3	2	4
14	3	4	5	7	1	2	5	2	6	8	7	12	4	8	1	3	5	5	6	5	4	4	3	5	5
15	2	4	5	4	3	9	7	3	6	10	8	3	5	5	1	5	2	2	7	2	2	3	3	6	4
16	6	6	10	7	12	6	6	5	5	6	6	10	0	0	3	2	3	2	3	4	4	4	2	9	5
17	6	8	2	0	2	2	2	4	4	3	2	5	5	2	24	6	8	7	3	2	1	2	1	2	4
18	2	7	8	7	4	2	7	17	20	26	40	14	9	5	9	7	17	7	3	2	4	5	4	5	10
19	7	17	13	4	3	4	5	4	14	21	34	13	10	20	25	24	12	16	10	7	13	15	6	5	13
20	9	9	5	5	5	4	4	11	18	13	8	3	13	6	12	21	17	14	8	3	6	8	4	6	9
21	7	12	10	5	4	2	3	8	15	12	29	68	37	19	38	44	40	18	13	12	11	8	6	4	18
22	4	5	7	9	14	15	13	15	22	47	64	54	54	52	28	20	2	0	1	1	0	3	1	1	18
23	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
24	1	3	2	2	2	1	0	1	1	1	0	1	2	1	2	1	0	1	1	1	1	1	0	2	1
25	1	1	1	1	1	5	1	1	1	4	11	2	0	2	1	2	1	1	2	1	1	2	2	5	2
26	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	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	1	0
28	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	2	1	1
29	0	0	7	3	0	0	0	0	18	22	57	19	13	17	13	21	14	9	9	9	9	7	9	12	11
30	23	21	26	28	17	8	9	32	35	43	28	23	39	28	24	M	2	10	5	2	0	0	3	8	18
31	9	19	11	6	5	13	24	22	16	22	56	22	35	24	20	47	33	32	18	2	2	4	3	10	19

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----									-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
4	3	6	3	14	23	37	47	0	-	68	0	-	19	3	100	0

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

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

STATION : POK FU LAM  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	7	8	2	4	3	8	7	8	19	31	20	18	14	9	6	14	12	12	13	20	12	15	13	9	12
2	10	9	8	7	11	9	12	14	20	18	18	15	24	23	21	29	26	34	16	8	10	8	8	14	16
3	14	15	20	9	6	5	10	32	30	32	15	12	15	17	29	36	38	40	45	49	35	25	15	10	23
4	4	4	2	4	4	4	10	7	22	36	14	17	10	10	13	21	15	20	20	20	19	10	10	12	13
5	4	3	4	6	9	11	10	8	10	31	13	11	6	7	6	14	11	13	17	13	20	21	22	21	12
6	20	7	6	10	5	13	17	9	15	12	14	7	9	13	9	20	18	18	18	14	14	16	15	17	13
7	15	21	24	11	9	15	13	10	13	17	22	19	11	11	8	12	7	10	9	16	16	17	16	17	14
8	17	9	8	7	6	11	15	16	10	20	20	9	8	7	9	6	6	17	13	14	13	10	13	12	12
9	10	8	5	8	7	5	12	11	10	7	9	8	9	9	9	10	17	11	11	8	11	14	13	12	10
10	7	11	11	11	8	8	9	11	17	15	10	8	4	4	9	14	18	16	20	17	13	13	19	19	12
11	15	3	8	10	7	9	13	19	15	11	19	13	7	9	7	8	8	10	19	20	13	19	15	14	12
12	16	11	9	10	11	5	9	17	10	9	8	5	7	5	6	6	12	5	16	20	19	14	11	10	10
13	10	M	7	11	14	16	23	17	9	10	15	12	6	8	4	4	4	10	13	22	11	17	16	7	12
14	7	9	6	11	4	7	13	12	13	16	7	9	4	8	2	2	7	11	13	14	12	12	11	10	9
15	7	11	13	13	7	15	13	7	10	14	10	5	8	7	3	7	5	5	15	12	16	14	15	17	10
16	17	13	19	14	21	14	9	7	10	6	8	14	5	4	10	6	8	11	14	17	16	13	12	37	13
17	32	19	6	1	6	9	12	10	9	9	3	8	8	8	25	10	14	19	16	16	9	11	10	12	12
18	6	10	8	7	4	7	29	34	31	32	28	21	12	6	10	11	20	14	13	14	14	16	11	8	15
19	13	24	17	8	6	10	11	6	19	15	24	20	18	17	18	15	16	24	18	20	25	24	13	10	16
20	15	15	7	10	9	8	9	19	16	19	13	10	17	11	18	25	23	17	17	11	13	9	8	10	14
21	13	15	13	9	7	7	11	27	28	30	47	68	63	39	55	76	90	45	42	32	21	15	12	9	32
22	7	4	8	16	33	45	43	43	57	88	118	123	127	125	69	46	15	21	39	13	14	53	44	33	49
23	31	29	19	12	6	3	3	1	1	0	1	1	1	1	1	2	0	0	0	0	0	0	0	3	5
24	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	1	2	4	4	3	0	0	2	4	1
25	3	2	2	1	4	12	5	7	12	10	15	6	1	2	3	5	9	7	20	18	10	19	12	33	9
26	15	16	4	4	3	4	8	7	7	12	8	5	5	6	10	11	8	12	9	9	9	6	4	4	8
27	5	M	2	0	0	0	0	0	0	0	0	0	0	0	1	3	0	2	3	2	2	2	9	14	2
28	12	5	0	1	6	5	8	9	14	13	14	15	6	9	18	11	12	8	10	12	19	38	21	1	11
29	0	10	27	22	7	7	13	21	30	46	51	39	28	27	25	36	29	36	48	77	71	63	67	49	35
30	75	89	101	94	71	36	40	56	79	91	86	63	79	65	63	M	39	50	43	30	35	33	12	8	58
31	17	46	25	19	17	45	64	67	53	58	68	58	60	51	52	65	63	76	60	33	30	58	87	88	53

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	12	17	12	36	58	77	90	0	-	127	1	-	58	2	100	0	

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

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

STATION : AP LEI CHAU  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	8	6	5	7	6	14	8	4	4	9	7	7	8	7	5	19	8	11	7	12	7	9	5	8	8
2	5	7	14	9	10	9	5	6	6	4	7	13	4	3	20	44	17	14	15	13	13	7	7	14	11
3	23	23	22	14	5	3	0	0	1	0	1	1	2	1	6	50	46	23	31	26	22	19	17	14	15
4	12	6	7	9	8	7	8	1	2	1	1	1	2	2	6	17	12	15	17	12	30	7	13	15	9
5	16	10	10	10	23	22	13	9	6	16	8	30	8	17	12	20	11	8	10	6	12	13	46	15	15
6	33	26	7	10	6	15	19	16	26	14	13	10	11	18	10	22	17	15	17	8	14	15	11	14	15
7	10	20	26	10	10	9	7	4	4	11	24	20	4	10	2	6	6	2	3	11	7	13	7	15	10
8	13	9	10	7	1	5	4	4	3	7	18	3	1	0	6	2	2	13	4	15	16	8	4	9	7
9	7	5	4	9	7	5	13	9	5	4	11	7	6	5	6	4	7	4	6	3	8	5	6	6	6
10	4	7	8	9	4	4	3	5	4	3	4	5	7	22	8	7	10	7	7	8	8	6	4	8	7
11	6	1	5	8	1	8	9	8	5	4	7	9	4	7	1	4	5	5	6	8	3	9	13	12	6
12	17	12	6	7	4	4	8	10	5	8	9	3	5	3	5	13	9	6	16	17	11	14	12	4	9
13	4	6	7	14	20	16	27	25	11	16	9	3	8	7	11	7	10	20	6	15	6	13	8	3	11
14	9	11	10	13	4	9	16	10	12	11	11	18	12	13	5	10	9	14	10	17	8	16	8	7	11
15	13	12	12	10	5	13	9	9	16	16	15	5	6	10	6	16	6	11	19	12	17	13	11	15	12
16	24	26	8	8	21	10	9	9	8	13	10	12	2	1	30	13	11	13	9	12	10	13	35	12	13
17	20	22	14	8	10	10	5	8	19	19	9	13	13	23	33	10	12	8	8	9	3	7	7	20	13
18	17	20	30	15	13	8	6	11	44	114	105	26	30	27	17	16	14	10	8	10	12	10	9	6	24
19	9	34	19	3	5	11	9	9	4	5	64	29	25	28	31	30	28	23	27	17	17	18	16	12	20
20	20	21	7	12	22	21	16	14	16	22	8	5	28	14	28	21	30	15	17	12	30	17	23	29	19
21	28	29	25	15	9	6	5	13	14	14	23	60	52	26	31	53	35	25	19	17	29	20	15	6	24
22	19	29	29	17	34	33	28	18	21	30	57	60	68	134	40	28	6	1	2	2	1	1	0	1	27
23	1	1	0	1	1	1	1	2	2	2	3	2	1	1	1	1	0	0	0	0	0	1	0	3	1
24	3	5	3	3	3	3	2	4	3	4	3	1	1	3	3	2	2	3	2	3	1	1	2	2	3
25	1	1	1	1	1	1	0	1	3	2	1	1	1	1	1	1	0	1	1	1	1	2	2	5	1
26	4	7	8	10	7	4	4	4	4	3	2	2	2	2	2	3	6	5	4	3	3	3	2	1	4
27	1	1	1	2	2	2	3	2	2	1	1	1	1	1	1	1	1	1	2	1	2	1	9	14	2
28	14	11	3	4	8	5	2	4	8	5	5	2	2	2	2	1	1	1	2	2	4	3	2	1	4
29	1	2	2	12	6	2	1	1	109	102	39	50	74	39	25	38	31	28	12	40	20	34	37	34	31
30	27	27	21	19	32	10	10	16	51	64	34	37	78	32	25	50	24	27	46	17	4	2	7	12	28
31	14	49	16	10	10	12	34	19	13	39	72	32	33	32	24	36	43	57	34	7	3	7	10	12	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	
8	9	13	9	28	35	54	70	0	-	134	1	-	31	3	100	0

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

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

STATION : AP LEI CHAU  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017  
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	M	3	4	4	9	6	4	7	14	17	16	18	14	17	23	13	10	6	11	5	10	7	9	10
2	4	7	11	10	13	7	6	7	14	11	18	22	12	21	43	51	29	38	39	24	18	5	4	14	18
3	26	25	31	20	3	4	2	12	3	5	2	0	1	1	6	38	35	24	35	43	32	30	18	18	17
4	15	8	11	7	4	3	10	5	9	3	9	0	0	0	8	15	13	24	18	17	38	8	13	10	10
5	15	8	4	4	19	21	12	10	5	6	2	12	4	5	5	9	11	10	9	11	13	18	36	12	11
6	24	18	3	5	5	12	18	15	16	15	13	15	14	18	14	28	24	25	29	15	17	19	9	12	16
7	14	17	20	8	10	10	12	7	6	10	19	29	21	21	12	9	25	13	7	14	10	15	10	18	14
8	9	9	9	8	0	6	7	9	10	12	21	13	7	5	10	8	8	13	7	22	21	11	6	7	10
9	4	3	2	10	7	6	18	14	8	9	12	14	12	17	21	17	21	14	13	10	14	7	14	10	12
10	6	8	5	8	7	6	1	6	5	4	4	12	15	25	15	15	20	15	16	17	7	7	4	7	10
11	4	0	5	8	2	10	15	12	11	7	7	5	3	8	6	4	25	30	11	17	5	12	13	11	10
12	14	10	5	5	6	4	10	10	5	8	20	12	8	7	11	18	20	7	19	26	19	22	17	5	12
13	3	6	3	10	15	19	19	14	5	11	10	8	8	8	10	7	15	18	11	19	10	14	9	5	11
14	12	11	7	8	2	11	13	14	11	11	14	19	22	16	22	47	32	15	9	10	4	12	2	1	14
15	2	M	4	2	1	7	5	5	4	7	6	3	6	6	7	13	9	8	12	7	11	9	5	13	7
16	10	12	4	7	18	7	6	8	8	8	7	13	2	2	23	17	10	24	13	18	22	17	15	10	12
17	6	17	11	1	1	2	2	2	4	6	12	15	14	26	12	10	12	10	5	11	6	9	6	17	9
18	9	9	12	4	3	3	7	15	32	35	30	4	5	7	4	1	2	1	0	2	4	3	1	2	8
19	3	17	8	0	1	9	3	0	0	1	15	17	9	11	14	9	14	20	25	22	20	17	21	10	11
20	17	21	2	7	18	17	6	9	5	9	3	4	15	8	22	18	30	12	16	8	18	10	17	24	13
21	26	22	17	12	4	1	0	8	20	21	32	56	57	29	31	53	64	32	24	16	25	11	5	1	24
22	25	27	19	9	37	39	49	35	40	65	107	114	135	167	77	45	7	15	21	4	3	13	5	13	45
23	22	18	7	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
26	10	23	11	15	13	2	3	5	1	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	4
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	1
28	6	3	0	1	3	3	0	3	2	2	3	1	11	6	0	1	0	0	0	1	4	1	7	1	2
29	3	M	4	24	20	10	9	7	29	37	30	32	40	33	32	51	43	38	40	73	50	71	67	82	36
30	85	87	63	86	70	19	14	29	59	88	76	59	54	46	73	73	33	47	62	22	19	23	4	1	50
31	0	55	19	13	6	19	61	43	43	64	65	60	59	60	45	46	58	67	40	22	23	32	84	75	44

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	32	53	73	85	0	-	167	0	-	50	3	100	0

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

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

STATION : CHEUNG CHAU  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017  
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	1	0	1	1	0	0	0	0	0	0	0	0	0	0
2	1	0	0	0	0	0	0	0	0	1	1	0	0	2	1	2	7	7	2	4	9	7	5	6	2
3	5	3	2	2	0	0	0	0	0	1	3	2	2	3	9	3	1	1	1	1	0	1	5	6	2
4	6	7	7	7	6	5	0	0	1	4	4	1	0	2	2	1	1	0	0	1	1	3	2	2	3
5	4	5	5	5	5	2	0	1	1	3	6	9	9	12	10	1	0	2	0	0	0	0	0	1	3
6	0	2	1	0	0	1	0	0	1	1	0	3	0	4	4	6	2	1	2	0	0	2	1	3	1
7	2	1	1	1	1	0	0	0	0	1	5	8	2	0	0	0	0	0	0	0	0	0	0	0	1
8	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	2	1	1	1	0	0	0	0	0
11	0	0	1	0	0	0	0	1	3	2	1	0	1	1	0	1	1	0	0	0	0	0	0	1	1
12	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	1	1	2	2	0	0	0	0	2	1
13	0	0	0	1	0	0	0	1	0	1	0	1	1	0	0	2	1	0	0	0	0	0	0	1	0
14	0	0	0	0	0	0	1	2	2	2	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1
15	0	0	0	0	0	0	0	0	2	4	2	1	0	1	3	2	1	1	0	0	0	0	0	1	1
16	0	0	1	0	0	0	1	3	2	0	0	0	0	0	1	5	3	3	2	1	1	1	1	3	1
17	2	0	0	0	0	0	1	5	10	10	9	9	7	3	3	3	6	2	0	1	1	1	1	3	3
18	1	2	3	1	2	1	3	4	3	6	5	6	20	18	18	13	9	2	2	1	4	8	7	6	6
19	3	3	2	5	1	1	2	4	13	12	6	2	1	2	3	5	5	5	1	2	3	3	4	4	4
20	3	2	1	0	0	0	1	2	4	1	2	16	8	11	9	13	7	6	0	0	0	0	0	2	4
21	2	2	2	2	2	1	3	7	10	9	6	9	11	19	14	9	10	13	6	3	2	3	3	3	6
22	2	3	3	2	3	2	3	12	52	73	58	52	38	20	6	5	7	0	0	2	2	5	4	4	15
23	3	3	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	2	1
24	1	0	0	0	0	0	1	1	5	7	7	10	6	5	5	3	3	3	3	1	0	0	2	4	3
25	3	3	1	2	4	3	4	4	4	7	6	3	2	1	2	2	2	1	4	5	2	4	3	3	3
26	5	4	3	2	1	4	6	8	8	7	3	1	1	3	4	2	3	2	1	1	1	1	1	1	3
27	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
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	2	1	1	1	1	2	1
29	3	5	4	3	3	4	5	8	4	4	3	8	10	20	14	5	6	6	10	3	1	3	6	5	6
30	6	6	5	7	8	6	5	9	11	12	15	19	25	27	37	18	6	6	8	5	6	2	2	3	11
31	1	1	3	1	1	2	2	6	8	9	7	8	9	12	22	12	20	31	14	0	0	0	0	1	7

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
3	1	3	1	7	10	19	26	0	-	73	0	-	15	3	100	0

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

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

STATION : CHEUNG CHAU  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017  
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	3	4	4	3	4	5	5	5	3	3	3	3	3	3	5	4	5	4	5	4	4	5	6	4
2	7	1	3	2	4	3	3	3	4	3	5	13	29	39	27	28	34	27	17	31	51	54	31	60	20
3	80	45	42	36	3	6	18	33	22	18	12	9	9	8	15	10	6	12	13	26	4	7	19	25	20
4	39	43	34	27	22	22	3	22	46	45	17	10	7	5	10	10	10	5	4	12	57	69	58	58	26
5	60	56	40	38	30	21	2	21	28	30	11	14	8	10	8	4	4	4	4	6	3	3	6	9	18
6	5	9	5	5	4	8	8	8	4	2	1	4	1	5	6	9	12	15	15	10	8	13	7	16	8
7	11	6	4	9	8	9	6	3	7	19	11	10	3	3	3	4	4	3	4	10	6	7	6	5	7
8	7	5	4	5	5	8	5	4	2	2	2	2	1	2	2	2	5	4	5	5	4	6	5	4	4
9	5	M	7	3	3	4	4	6	3	2	2	3	3	4	4	9	6	3	4	8	7	5	7	5	5
10	4	3	3	8	7	7	3	4	10	5	8	2	6	8	21	6	7	10	13	24	9	4	8	8	8
11	9	13	19	7	10	9	7	12	17	7	3	3	4	3	4	4	6	6	13	11	10	10	11	18	9
12	14	9	6	8	8	8	9	9	4	3	4	2	2	3	3	5	5	4	6	9	10	7	8	9	6
13	7	6	3	13	5	10	7	6	3	5	2	2	3	4	4	4	3	4	7	4	4	6	7	8	5
14	9	6	5	3	5	9	8	10	7	4	3	4	4	3	2	3	3	4	3	6	5	5	3	8	5
15	5	2	8	6	3	7	12	6	7	7	3	2	2	2	4	3	4	5	3	5	3	2	4	16	5
16	8	8	9	11	7	33	34	40	25	7	10	5	18	21	10	11	15	17	25	21	16	17	23	23	17
17	30	15	10	9	20	20	34	25	17	14	11	6	7	4	5	5	9	6	6	7	31	54	63	65	20
18	55	54	57	49	49	41	33	28	19	27	11	12	16	12	11	8	10	3	5	6	8	14	21	30	24
19	7	9	10	14	10	15	25	22	21	10	8	3	4	5	6	11	12	10	12	13	24	44	51	57	17
20	55	33	33	21	12	22	40	36	24	7	6	19	15	21	16	23	16	18	12	12	31	46	32	44	25
21	31	37	26	24	16	22	54	47	43	25	26	28	30	49	38	65	28	32	58	18	23	51	72	43	37
22	95	109	114	72	62	65	85	78	112	148	150	161	139	80	73	38	34	30	62	37	80	117	82	82	88
23	82	M	58	41	35	31	27	19	14	10	11	5	4	1	1	1	3	5	11	17	16	12	6	14	18
24	14	10	11	15	12	8	26	21	15	13	13	8	6	7	6	6	7	10	17	15	10	12	18	38	13
25	23	21	11	18	39	31	41	29	17	37	17	11	5	4	10	10	7	6	25	27	22	54	42	58	24
26	69	66	52	36	28	45	46	40	42	38	16	4	6	11	11	9	10	18	30	16	36	8	10	26	28
27	42	12	17	16	5	3	4	2	0	1	1	1	1	0	1	0	2	3	2	2	2	3	2	7	5
28	5	5	4	11	18	18	7	8	14	11	11	20	7	29	15	18	26	32	30	24	33	28	28	36	18
29	51	50	51	51	47	46	44	40	28	35	23	25	25	53	45	29	31	27	44	61	46	65	93	100	46
30	108	105	122	131	121	86	57	67	71	66	72	74	82	84	102	43	21	27	41	73	34	19	22	40	70
31	48	32	34	15	28	39	42	64	62	62	34	29	21	34	40	24	41	45	48	35	73	65	89	55	44

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	10	21	10	53	69	96	116	0	-	161	4	-	88	3	100	0

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

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

STATION : VICTORIA PEAK  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017  
UNIT : MICROGRAMS/CUBIC METER

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

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	14	18	23	26	0	-	36	0	-	21	3	100	0

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

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

STATION : VICTORIA PEAK  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017  
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	10	11	11	6	7	51	68	61	74	75	76	67	52	63	57	42	34	20	17	9	48	62	6	39
2	5	9	11	8	20	24	14	28	22	17	29	M	32	54	53	84	91	46	42	39	44	72	8	9	33
3	26	22	15	32	48	38	26	20	27	39	59	50	37	40	36	30	27	18	17	15	19	13	21	26	29
4	13	12	36	24	28	25	9	5	8	10	7	12	13	15	11	20	21	25	34	30	25	27	25	15	19
5	12	12	14	8	8	7	13	24	21	20	21	15	16	16	17	23	23	21	20	20	20	18	13	14	17
6	16	M	8	8	7	7	12	13	16	13	19	13	47	47	43	49	33	26	39	52	39	34	26	15	25
7	14	17	12	7	10	10	12	22	22	29	24	24	22	35	22	26	23	35	21	31	39	67	61	20	25
8	24	27	18	15	12	9	17	21	18	17	20	13	21	24	33	19	22	31	29	25	26	23	22	15	21
9	19	12	14	8	7	7	13	18	17	17	24	15	13	19	17	17	16	19	12	16	23	21	21	15	16
10	12	6	0	5	1	1	4	5	4	10	5	3	3	14	12	9	6	7	17	18	22	13	5	9	8
11	9	18	10	8	0	1	3	3	3	12	15	20	13	10	8	16	32	17	21	24	13	10	13	8	12
12	29	27	22	7	0	1	25	35	41	56	57	53	48	66	95	77	32	27	77	61	30	19	7	6	37
13	3	2	1	0	0	0	2	15	20	23	22	22	20	13	11	9	9	8	4	2	2	4	4	4	8
14	0	0	0	0	0	0	1	6	11	16	20	12	9	6	9	9	8	15	18	15	14	12	10	5	8
15	4	0	0	0	0	1	4	8	17	32	31	28	23	17	22	11	12	30	51	45	29	6	2	12	16
16	17	36	24	23	32	39	50	47	62	65	71	70	38	39	37	36	61	47	61	49	43	49	29	22	44
17	24	26	25	33	43	34	46	50	58	59	48	39	40	44	42	40	40	29	39	28	20	14	15	11	35
18	12	7	63	27	24	19	27	23	14	14	11	8	7	8	5	5	7	8	5	3	2	1	0	1	13
19	0	0	0	0	0	0	0	4	9	8	8	7	3	3	9	23	20	9	4	3	5	2	2	1	5
20	4	M	1	0	1	3	4	2	6	10	9	9	6	5	4	9	11	10	8	4	2	6	6	2	5
21	1	0	0	0	2	0	3	14	23	11	4	12	23	17	3	8	7	7	2	5	30	5	5	5	8
22	1	2	2	2	0	0	4	3	6	7	10	2	1	2	3	3	2	0	0	0	0	0	0	3	2
23	1	3	2	0	0	0	2	0	2	3	3	2	2	1	1	2	2	7	3	3	3	4	3	6	2
24	1	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	1	8	6	6	8	10	8	5	8	11	11	10	6	5	4	4	3	1	5
26	0	0	0	0	0	0	0	0	4	5	5	7	11	9	12	17	31	43	40	52	62	62	62	63	20
27	59	57	52	45	39	27	44	36	45	56	59	53	55	55	60	43	54	54	38	30	21	24	33	30	45
28	27	17	14	21	18	29	23	24	30	23	25	32	24	24	17	12	19	26	7	13	12	6	11	9	19
29	5	0	0	0	0	0	0	1	3	2	2	3	1	2	2	2	5	1	1	1	3	0	0	2	2
30	1	0	0	0	0	0	0	0	4	5	7	5	0	2	4	4	1	0	0	0	0	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		
13	12	17	12	45	57	66	74	0	-	95	0	-	45	3	100	0

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

MONTH: SEPTEMBER

YEAR : 2017

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	12	11	6	5	4	3	4	11	15	18	34	44	46	26	21	11	6	3	1	2	3	2	1	1	12
2	2	2	3	2	3	5	5	22	22	30	30	10	10	15	23	19	19	15	20	10	5	2	0	0	11
3	0	0	4	9	7	6	5	1	1	12	22	21	8	22	6	4	5	0	0	0	3	5	2	3	6
4	2	2	0	0	0	0	0	1	1	0	1	0	0	2	0	2	4	6	7	5	10	15	12	8	3
5	6	7	8	4	0	1	4	8	14	14	9	13	7	7	3	5	7	2	3	5	4	5	2	8	6
6	5	7	9	7	8	12	8	6	11	45	10	25	15	15	12	18	8	7	3	5	6	11	17	22	12
7	16	7	7	12	13	13	21	14	12	11	8	8	0	1	1	2	2	1	1	2	1	1	1	7	7
8	15	12	11	8	7	6	8	9	7	7	2	2	4	7	9	7	4	18	12	14	6	7	7	5	8
9	4	8	6	5	7	8	9	4	5	7	8	6	8	14	3	1	1	0	0	0	2	2	2	6	5
10	8	4	3	5	3	3	6	2	7	9	5	7	2	5	3	8	3	5	5	6	7	4	3	2	5
11	1	4	6	16	16	5	2	2	4	3	21	20	10	16	10	8	6	10	7	7	9	10	15	10	9
12	3	8	10	14	13	11	9	9	12	11	17	17	20	20	20	17	15	14	7	4	3	2	2	1	11
13	1	1	2	2	2	1	1	2	2	3	3	2	1	1	1	2	2	1	1	1	2	4	1	1	2
14	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	2	3	4	6	3	5	6	6	3	3
15	2	1	1	0	0	1	1	1	1	0	0	0	0	0	1	2	2	12	14	9	14	8	11	7	4
16	14	9	12	11	11	11	11	11	17	31	29	22	17	18	17	13	10	15	15	14	14	8	8	7	14
17	7	8	14	14	9	14	21	29	42	30	32	32	13	6	17	12	8	12	18	12	14	15	24	31	18
18	24	19	12	10	10	10	11	10	9	8	9	8	5	5	4	2	3	4	4	3	2	2	1	1	7
19	1	1	0	1	0	1	1	1	1	1	2	1	1	1	2	2	2	2	1	1	4	4	3	3	2
20	2	2	2	3	3	3	1	1	1	1	2	1	1	1	1	1	1	2	2	2	4	6	2	3	2
21	3	1	1	2	4	4	3	4	2	2	1	1	1	1	1	2	6	4	3	3	4	5	4	3	3
22	4	3	3	3	1	1	1	0	0	1	1	0	0	1	1	1	1	1	1	2	0	2	2	1	1
23	1	1	1	1	0	0	1	0	1	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
24	2	1	1	1	1	0	0	1	1	0	1	0	1	1	1	0	0	0	0	1	0	1	1	1	1
25	1	1	1	1	1	1	1	1	2	2	4	4	4	4	3	2	4	2	1	3	1	1	1	1	2
26	1	1	2	3	1	1	1	2	2	2	1	M	M	2	4	8	13	11	14	11	9	9	17	26	6
27	23	27	25	38	26	15	11	9	9	21	37	39	31	14	15	12	7	5	4	7	5	3	5	10	17
28	10	19	21	21	15	18	22	71	55	22	24	19	12	13	8	9	9	6	11	7	3	6	4	4	17
29	2	2	1	1	1	0	1	4	1	1	2	4	1	1	1	4	9	2	1	2	4	2	1	3	2
30	1	0	1	2	1	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	1	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		
4	3	7	3	16	22	31	38	0	-	71	1	-	18	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: SEPTEMBER

YEAR : 2017

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	28	25	25	25	24	21	34	50	73	85	91	115	133	89	84	61	36	38	18	21	31	28	30	26	50
2	44	45	63	55	50	39	48	74	67	79	75	57	59	54	60	57	48	42	43	38	29	12	8	8	48
3	6	10	46	45	39	52	55	33	28	44	61	64	41	52	19	31	24	16	15	14	25	27	21	30	33
4	17	18	7	6	7	11	7	9	7	7	6	5	8	11	11	17	17	27	29	34	28	40	34	19	16
5	14	17	26	11	4	6	19	28	26	22	16	12	10	12	10	10	13	12	13	24	22	17	10	17	15
6	16	M	19	18	18	24	16	12	11	31	19	29	24	24	16	24	17	15	15	20	23	25	29	34	21
7	24	13	10	17	19	16	21	21	19	16	11	12	4	11	10	25	10	11	13	14	13	11	10	15	14
8	29	22	22	17	14	13	17	18	15	13	7	6	6	7	11	14	8	30	24	32	16	16	22	19	17
9	16	20	15	15	18	20	22	15	15	20	23	12	11	15	9	7	9	6	10	10	10	12	13	19	14
10	20	14	10	11	9	8	15	7	10	12	7	8	6	8	7	13	9	18	20	17	18	13	12	13	12
11	10	10	13	30	35	16	10	16	16	10	21	24	14	14	15	12	13	22	25	18	17	17	27	26	18
12	16	35	49	53	54	55	49	42	49	63	74	77	71	60	57	43	51	46	26	19	17	12	7	10	43
13	9	8	7	7	6	5	7	10	10	13	15	12	7	7	8	15	20	10	8	7	13	17	6	5	10
14	5	4	4	4	4	4	6	8	8	9	11	10	12	15	16	20	23	15	19	10	11	10	9	6	10
15	6	5	4	4	3	5	6	10	7	9	11	11	9	7	7	10	11	27	36	19	28	24	26	13	12
16	34	27	27	35	45	47	50	45	59	86	78	65	50	39	41	45	42	53	38	30	28	23	26	22	43
17	22	26	38	38	35	43	51	59	76	71	77	68	26	15	25	20	18	22	28	18	17	17	26	26	36
18	17	14	11	8	10	17	15	17	15	13	11	10	8	8	8	12	11	12	16	14	13	10	7	11	12
19	9	6	5	6	4	5	6	12	14	9	13	8	7	6	10	9	13	13	9	8	11	16	10	9	9
20	7	M	7	7	7	7	11	15	13	8	10	8	8	7	8	10	12	13	11	10	11	12	9	9	10
21	6	4	4	5	7	7	7	10	8	7	10	6	5	5	5	6	21	15	9	6	8	13	8	8	8
22	11	9	8	7	6	6	7	5	6	9	6	5	4	5	5	7	6	8	9	10	6	13	10	11	7
23	7	7	9	7	3	6	8	5	8	8	6	6	7	4	5	5	5	7	6	5	5	5	5	6	6
24	8	5	6	5	5	5	5	5	4	4	6	6	5	6	4	6	5	7	5	6	4	6	6	5	5
25	5	4	4	5	8	5	7	10	8	6	8	10	11	10	9	8	15	10	12	15	8	11	7	8	9
26	7	4	5	10	9	6	8	12	12	7	7	M	M	6	10	11	19	21	32	25	15	21	30	46	15
27	36	43	43	44	40	35	32	24	27	36	43	43	43	38	34	32	25	25	21	29	18	10	15	20	32
28	22	29	30	36	25	31	36	37	30	23	24	22	13	14	9	9	14	11	25	20	12	15	12	16	21
29	8	6	7	5	7	4	8	14	7	5	7	8	5	4	5	8	7	9	9	10	11	7	6	11	7
30	5	4	4	6	7	4	7	6	6	6	8	6	5	5	5	6	7	6	6	6	7	6	5	6	6

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
14	12	19	12	43	55	74	79	3	-	133	5	-	50	2	99	0

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

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

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	1	1	1	2	2	3	2	3	3	3	2	1	1	1	1	1	1	1	1	2
2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	3	2	1	1	1	1	1	1	1	1
3	1	1	1	1	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	1	1	1	0	1	0	1	1
6	1	1	1	1	1	1	1	1	1	1	2	2	6	3	2	1	2	1	1	1	1	1	1	1	1
7	0	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	0	0	1	1	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	1	0
9	1	1	1	0	1	1	0	1	0	1	0	1	1	1	1	1	1	0	0	0	0	0	1	1	1
10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	1
11	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	2	1	1	1	1	1	1	1	1
12	1	0	1	1	1	0	1	2	2	2	5	3	4	8	4	1	1	0	1	0	0	0	0	1	2
13	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1
14	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	3	3	2	5	7	7	5	3	2	1	1	1	1	1	2
16	1	1	1	1	1	1	1	2	4	8	9	9	8	13	8	7	5	6	3	1	1	1	0	1	4
17	1	1	1	2	2	2	2	2	5	12	14	15	13	10	9	10	6	3	2	2	2	2	1	3	5
18	2	2	2	1	2	2	2	3	6	10	4	3	3	3	3	2	2	2	1	1	1	1	1	1	3
19	0	0	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	0	1	1	1	1	0	1	0	1	2	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
21	0	0	0	0	0	0	0	1	2	2	1	2	3	4	1	1	1	1	1	0	0	1	0	1	1
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1
23	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
24	0	0	1	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	0	1	1	1	1
25	0	0	0	0	0	0	0	0	1	1	M	M	0	0	0	0	0	0	0	0	0	0	0	1	0
26	1	1	1	1	1	1	1	1	1	1	1	1	2	3	5	6	5	2	2	2	2	2	2	2	2
27	1	1	1	1	1	1	0	1	2	3	4	3	6	4	2	2	2	1	1	1	1	1	0	2	2
28	2	1	1	1	1	1	1	2	3	3	5	5	2	4	3	6	3	3	1	1	1	0	1	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	1	0
30	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	0	1	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	
1	1	1	1	2	4	8	10	0	-	15	0	-	5	2	100	0

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

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

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017  
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	29	20	16	15	13	12	24	37	39	45	52	67	77	72	73	70	45	39	27	22	30	24	15	13	37
2	9	12	20	23	19	22	19	21	25	23	27	25	28	30	33	73	60	28	27	22	32	50	15	25	28
3	18	18	24	16	20	20	21	17	16	23	27	32	24	26	23	25	20	16	15	15	16	14	15	15	20
4	8	9	24	18	15	11	5	6	8	6	7	6	6	7	8	14	12	15	17	16	14	12	12	15	11
5	9	8	8	7	4	4	7	10	15	15	11	8	8	10	9	12	12	11	18	17	17	14	9	17	11
6	14	M	12	8	9	9	13	13	12	13	15	16	31	30	25	17	16	17	12	14	22	24	20	15	16
7	12	9	8	8	8	8	14	15	19	21	21	19	16	15	14	16	17	20	17	18	14	16	19	19	15
8	14	15	13	10	8	7	9	12	13	13	15	12	18	11	15	12	11	19	20	22	18	18	20	21	14
9	29	18	15	10	10	8	11	13	8	12	12	12	11	16	15	16	15	15	16	15	14	13	15	18	14
10	13	10	8	9	9	8	10	10	8	11	11	11	13	13	17	10	11	12	15	11	16	21	16	21	12
11	18	20	18	14	8	10	10	11	11	15	19	15	11	14	10	18	17	24	22	21	18	12	20	25	16
12	19	25	20	21	15	17	20	22	23	33	48	M	76	98	85	51	49	43	69	83	63	39	15	12	41
13	9	8	6	6	6	6	11	19	22	20	21	22	18	14	14	19	21	17	13	11	10	13	11	10	14
14	6	4	4	3	3	3	8	12	13	13	18	13	13	13	12	16	19	17	20	21	17	14	14	10	12
15	9	7	5	5	4	5	13	19	15	23	20	34	22	13	18	22	35	35	43	41	33	21	19	12	20
16	17	23	29	46	39	41	48	53	65	74	76	63	53	59	45	40	43	74	65	47	45	37	34	30	48
17	35	30	31	34	32	37	42	55	59	65	68	59	55	45	30	31	32	56	44	38	26	24	26	40	41
18	27	15	12	27	20	19	37	72	81	60	18	14	18	22	21	19	16	18	17	13	11	9	7	9	24
19	8	6	4	4	3	3	14	14	13	11	13	13	12	10	6	7	10	28	18	10	9	8	9	7	10
20	5	M	7	4	4	6	19	21	21	26	11	12	12	9	13	12	13	16	23	17	17	12	14	8	13
21	7	7	5	5	7	9	23	27	33	26	18	22	28	28	17	16	24	22	16	19	28	23	18	15	18
22	6	5	2	2	1	1	8	8	11	8	11	16	6	3	4	4	6	7	6	5	2	1	3	6	6
23	1	2	1	0	0	0	3	6	6	4	2	2	2	2	2	4	4	3	3	3	3	2	1	7	3
24	3	0	0	0	0	1	0	1	0	0	0	0	1	1	0	2	2	3	1	1	0	1	2	3	1
25	1	0	0	0	1	2	10	19	19	14	M	M	12	2	1	0	2	6	3	0	0	0	0	8	5
26	4	2	2	1	3	2	3	7	8	9	3	3	7	14	14	18	28	30	31	31	31	29	29	31	14
27	23	21	18	16	9	7	8	11	18	23	32	38	43	40	37	33	26	20	19	22	20	11	14	26	22
28	20	10	6	6	3	5	6	9	11	11	M	M	20	18	12	23	19	20	19	21	18	11	12	10	13
29	7	2	2	2	1	1	3	8	7	7	6	6	3	4	7	6	8	8	7	6	4	3	2	6	5
30	3	1	1	0	2	1	2	3	3	5	5	5	4	4	4	4	5	4	5	4	3	2	2	11	3

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
12	14	17	14	34	48	69	74	0	-	98	1	-	48	3	99	0

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

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

STATION : POK FU LAM  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017  
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	18	16	6	7	11	30	25	26	35	40	25	31	34	35	21	7	3	2	4	7	4	2	1	17
2	1	6	15	17	14	22	9	11	9	10	25	9	10	21	22	44	35	17	11	6	4	5	2	3	14
3	5	10	14	8	11	10	11	3	7	17	36	19	10	25	10	10	5	2	1	1	3	2	3	10	10
4	3	2	0	0	1	0	0	0	1	1	1	1	0	1	2	4	4	3	5	4	6	5	3	1	2
5	1	3	4	4	2	1	1	1	4	7	7	5	4	3	3	4	7	4	7	5	4	7	3	6	4
6	5	3	4	3	5	5	4	4	10	9	12	4	40	15	14	11	10	5	7	6	5	6	6	7	8
7	4	2	2	4	3	1	2	7	11	17	18	16	5	2	1	1	1	0	0	0	1	2	2	4	4
8	6	8	7	4	3	2	3	4	3	1	1	1	4	5	6	3	3	4	5	2	0	1	2	4	3
9	10	9	9	4	3	4	10	7	5	5	3	2	6	9	5	3	3	1	3	1	1	0	6	4	5
10	4	2	2	5	5	3	5	3	2	11	5	4	8	7	11	10	1	4	5	3	8	10	4	4	5
11	6	11	18	11	11	8	4	4	3	14	11	6	9	5	5	8	6	13	8	12	12	3	11	12	9
12	8	10	5	13	11	14	10	19	23	19	17	23	21	27	28	19	5	3	4	3	0	0	0	2	12
13	2	3	3	3	3	3	3	4	3	1	4	4	1	2	2	3	2	2	3	3	2	3	2	1	3
14	0	0	0	0	1	1	1	1	1	0	1	1	2	1	2	0	0	1	2	2	1	2	1	3	1
15	3	3	1	0	0	1	1	1	1	2	7	12	15	12	6	7	21	22	15	17	8	3	2	23	8
16	35	16	14	11	14	16	15	18	24	29	31	22	21	24	22	27	17	32	23	19	10	5	7	6	19
17	8	11	14	15	16	24	26	31	34	37	36	38	35	27	26	30	22	17	13	14	12	12	12	15	22
18	25	15	10	11	11	13	15	16	38	44	8	6	6	6	5	4	4	4	5	5	4	4	2	0	11
19	1	1	1	1	1	0	1	1	2	1	1	0	1	1	1	3	2	1	1	1	2	4	5	2	1
20	0	0	0	0	2	3	1	1	2	8	1	3	0	4	0	2	0	0	0	0	0	1	1	1	1
21	0	0	0	1	2	2	9	24	11	11	3	19	20	18	0	1	0	3	3	1	2	2	2	3	6
22	2	2	3	3	2	1	0	0	1	M	0	1	0	0	1	1	0	0	1	2	1	1	1	0	1
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	2	0
25	1	2	1	1	0	1	1	5	3	5	6	4	2	2	2	1	4	3	1	1	2	1	1	2	2
26	2	2	2	2	3	2	2	2	2	4	2	3	4	19	7	19	29	35	22	22	22	21	25	25	12
27	26	20	21	21	12	7	7	14	18	22	26	10	28	19	11	17	13	10	7	11	6	3	2	15	14
28	12	8	9	10	6	8	16	34	42	19	15	15	13	19	11	23	12	12	8	6	6	4	6	4	13
29	3	1	1	1	0	0	0	0	1	0	0	1	0	0	1	0	2	1	0	0	1	1	0	1	1
30	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
5	3	7	3	20	26	35	37	0	-	44	0	-	22	3	100	0

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

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

STATION : POK FU LAM

YEAR : 2017

POLLUTANT : NITROGEN DIOXIDE

UNIT : MICROGRAMS/CUBIC M

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
1	70	83	69	24	28	39	76	89	89	90	96	102	101	87	96	88	43	61	37	29	46	51	28	20
2	20	51	77	82	68	67	60	63	72	52	71	50	62	73	71	112	86	35	41	48	45	77	17	30
3	43	45	54	39	55	60	63	42	39	54	76	60	44	75	43	38	26	20	21	18	36	14	30	52
4	13	15	13	7	10	4	10	9	15	12	14	14	17	19	21	29	25	29	35	26	28	21	15	8
5	10	12	11	8	13	4	9	24	28	26	17	15	8	11	10	9	16	16	29	32	27	25	14	14
6	16	12	12	7	11	13	15	21	25	33	31	28	45	32	28	27	17	13	28	28	18	23	26	29
7	13	7	7	10	9	8	17	28	24	26	22	21	19	14	26	22	22	29	18	14	19	36	53	15
8	13	18	19	11	10	7	12	15	19	13	14	11	17	12	14	13	12	18	25	19	17	19	22	15
9	31	25	21	10	9	8	25	18	13	27	23	16	14	17	13	15	15	10	27	9	19	12	25	12
10	11	M	9	15	14	10	15	11	11	15	9	9	11	11	16	12	10	13	23	19	24	28	11	14
11	21	22	37	30	34	35	33	26	15	26	24	19	15	13	10	13	17	34	26	31	31	15	34	31
12	36	49	38	45	41	45	47	45	45	62	73	86	93	123	82	62	61	122	95	82	56	32	21	14
13	10	7	5	6	6	5	8	15	16	18	26	15	17	13	13	15	14	9	9	9	10	12	10	10
14	4	3	3	3	3	3	7	12	17	18	16	16	19	11	12	16	15	22	27	28	25	21	12	14
15	13	8	6	6	5	6	13	24	27	34	34	28	29	16	13	12	33	40	42	56	21	14	11	25
16	40	37	54	59	51	59	68	66	76	84	88	76	59	53	45	44	52	79	90	46	37	35	31	32
17	28	34	52	48	49	53	55	71	69	64	65	64	65	50	40	35	36	34	43	34	38	28	20	21
18	18	8	13	27	23	26	40	66	74	82	21	5	7	9	11	8	7	7	5	5	2	3	1	3
19	1	1	0	0	0	0	5	9	12	11	6	8	4	8	8	5	10	13	14	10	7	5	7	4
20	4	2	0	0	0	3	5	13	18	27	7	24	6	5	14	8	13	14	11	9	9	9	8	5
21	1	1	1	1	1	3	14	34	32	29	14	25	34	29	13	11	8	11	10	16	34	27	11	16
22	5	5	3	4	2	1	5	9	14	M	14	7	3	2	3	3	5	2	3	2	3	3	3	6
23	4	5	4	3	1	1	3	3	5	6	4	3	3	2	4	2	4	6	5	9	11	10	9	9
24	7	M	3	2	1	1	2	3	1	2	0	0	0	0	0	0	0	0	0	0	0	1	0	2
25	0	0	0	0	2	1	3	11	12	8	9	3	4	4	4	5	11	11	8	7	6	3	6	6
26	3	1	0	1	4	1	2	6	11	14	7	6	8	21	12	21	36	44	49	52	54	55	55	53
27	44	41	40	28	17	20	27	39	39	44	55	47	50	46	44	40	37	34	34	33	27	16	12	27
28	31	18	13	14	24	23	31	33	29	20	26	22	20	17	12	21	16	20	18	16	17	10	10	10
29	7	0	0	1	0	0	0	7	3	4	1	1	1	0	0	1	3	3	2	4	4	1	0	4
30	2	0	0	0	0	0	0	1	3	6	10	6	1	1	3	3	4	1	6	2	1	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	
15	15	22	15	54	71	88	95	0	-	123	1	-	64	3	100	0

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

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

STATION : AP LEI CHAU  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	15	30	19	7	12	23	20	32	33	41	65	42	47	62	39	18	9	3	4	3	13	7	2	2	23
2	3	4	8	13	15	14	11	14	19	26	39	10	16	34	31	41	42	24	20	8	9	10	3	14	18
3	2	14	24	19	19	10	13	8	8	21	41	M	15	26	12	12	8	4	3	0	9	7	3	26	13
4	11	9	8	3	4	2	3	4	6	5	3	5	1	3	6	9	11	12	30	24	11	28	13	38	10
5	11	14	20	10	7	4	8	12	26	29	20	28	16	15	11	8	14	12	16	19	28	16	8	18	15
6	19	20	37	11	25	24	27	9	27	19	12	41	75	35	10	15	14	15	12	17	18	9	20	22	22
7	12	9	12	18	14	13	16	39	13	32	66	39	10	8	3	9	5	12	10	16	9	9	5	9	16
8	41	26	23	16	11	9	9	14	15	10	11	4	20	14	18	8	9	23	15	21	12	11	26	6	16
9	26	18	18	7	12	14	28	11	8	29	15	11	6	25	16	10	8	2	5	3	5	3	8	13	13
10	16	11	7	12	18	10	11	6	7	13	12	6	12	12	24	23	4	8	17	9	13	13	9	7	12
11	15	20	27	36	9	8	10	12	10	14	36	19	13	28	19	26	15	26	22	23	21	13	29	13	19
12	14	10	17	17	11	14	14	19	28	23	25	30	21	41	59	37	19	9	9	7	5	3	2	2	18
13	1	3	2	3	2	1	1	2	2	3	3	3	3	0	1	2	3	2	1	2	0	2	1	2	2
14	3	2	3	3	3	3	3	4	5	4	4	3	3	3	3	4	4	6	9	6	5	2	2	8	4
15	7	8	6	4	4	5	4	4	5	4	3	3	4	3	10	53	35	45	28	25	16	16	20	13	14
16	37	27	29	18	17	25	19	22	28	38	38	34	28	38	32	26	20	32	20	20	17	11	10	8	25
17	11	12	34	18	20	19	27	52	47	42	50	46	37	30	30	30	19	17	16	16	16	16	39	52	29
18	35	22	12	39	27	19	15	14	13	11	8	8	7	7	6	2	3	6	6	6	4	3	2	2	12
19	3	4	2	1	2	2	2	3	4	4	3	3	3	3	4	5	5	4	4	3	4	7	8	6	4
20	5	5	5	5	6	6	5	4	4	3	4	M	2	3	4	3	3	4	5	5	6	9	7	4	5
21	3	4	3	2	3	5	4	4	6	3	3	2	2	3	2	3	4	11	7	4	3	6	5	5	4
22	5	4	4	5	4	3	2	0	0	1	2	1	1	1	2	2	2	3	3	2	2	2	2	2	2
23	1	2	2	1	1	1	2	0	2	3	2	2	2	2	2	1	2	2	2	1	2	2	2	3	2
24	3	3	3	4	4	3	2	2	2	2	2	2	2	3	3	2	2	2	1	2	2	2	4	2	2
25	3	2	3	3	3	3	4	10	4	7	7	5	3	6	5	3	6	7	2	4	3	1	2	5	4
26	3	3	3	4	7	3	2	3	1	5	3	4	9	M	M	M	92	50	45	43	52	42	53	60	23
27	45	38	47	51	13	15	14	13	21	27	49	51	51	26	24	21	9	11	13	15	10	6	12	22	25
28	22	37	37	32	16	45	40	73	38	34	70	21	14	27	12	13	14	17	19	16	7	8	9	8	26
29	6	3	4	2	2	2	1	5	4	2	2	3	1	1	2	5	4	4	3	4	3	3	2	5	3
30	2	2	2	2	3	2	2	1	1	1	1	1	2	2	2	2	2	2	1	2	1	2	3	2	2

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
8	8	13	8	32	41	51	60	0	-	92	2	-	29	3	99	0

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

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

STATION : AP LEI CHAU  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017  
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	83	87	68	54	75	66	50	73	80	87	93	98	108	111	97	44	38	46	34	10	35	31	14	25	63
2	39	36	43	67	53	49	53	46	65	62	66	37	54	73	77	76	73	39	32	31	52	17	0	17	48
3	5	26	45	27	28	40	50	30	23	43	60	M	36	43	25	23	17	10	17	2	18	13	6	56	28
4	14	5	12	0	0	0	1	1	3	3	4	4	1	2	5	24	15	23	32	26	13	28	17	20	11
5	3	5	11	0	0	1	7	16	24	19	11	14	4	3	3	1	10	12	16	20	25	9	0	9	9
6	16	12	28	8	19	13	17	2	8	17	13	20	39	31	6	7	8	17	12	26	16	4	20	22	16
7	4	3	2	5	7	4	8	23	6	11	20	17	5	10	19	25	11	23	27	30	27	36	10	1	14
8	21	20	18	12	2	1	2	6	2	0	4	0	8	8	13	11	5	19	18	14	8	7	27	0	9
9	20	10	12	0	7	6	18	1	0	11	16	5	0	9	7	6	3	1	19	2	6	8	1	8	7
10	12	5	0	3	10	3	5	1	0	1	0	1	2	7	17	14	1	7	15	5	8	6	2	0	5
11	11	9	21	31	11	15	20	22	5	8	14	11	1	12	21	21	15	25	22	13	15	7	25	22	16
12	28	M	52	49	40	44	38	39	39	50	75	85	82	97	69	40	40	44	63	50	16	11	2	7	46
13	5	4	4	1	0	0	0	8	6	6	10	8	18	6	5	1	0	0	0	0	0	0	0	0	3
14	0	0	0	0	0	1	1	4	6	8	6	7	3	1	1	1	3	7	9	4	4	5	8	4	3
15	0	0	0	0	0	3	6	7	9	7	4	6	9	1	9	29	21	36	38	32	23	22	25	9	12
16	45	28	20	50	42	52	49	57	65	86	97	80	54	52	54	56	48	86	50	32	26	19	15	20	49
17	21	24	54	42	42	50	69	77	75	69	75	64	51	38	26	20	14	25	18	15	11	7	30	71	41
18	32	12	4	36	16	16	16	34	14	9	3	0	0	0	0	0	0	1	0	1	0	0	0	3	8
19	2	2	0	0	1	2	9	7	5	5	5	3	1	0	1	0	0	1	1	0	0	0	2	0	2
20	0	0	0	0	0	1	1	0	0	0	0	M	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	1	7	10	0	0	0	0	0	0	0	0	1	0	0	2	5	0	0	1
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	0	0
25	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
26	0	0	0	0	1	0	0	0	0	0	0	0	1	M	M	M	36	34	43	39	38	40	43	41	15
27	36	33	33	29	6	17	18	29	33	36	48	42	38	38	30	30	23	24	20	21	13	6	8	23	26
28	29	41	37	28	17	30	31	30	22	19	29	10	4	8	4	3	7	12	16	17	4	8	5	6	17
29	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	0
30	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0

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	6	15	6	44	64	80	87	0	-	111	0	-	63	3	99	0

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

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

STATION : CHEUNG CHAU  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017  
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	1	1	2	14	22	19	18	17	21	18	16	15	2	0	1	1	0	0	0	3	7
2	2	0	3	7	5	4	5	8	2	2	5	9	18	17	16	18	16	4	1	2	3	6	4	1	7
3	1	1	1	0	1	2	3	2	2	5	10	7	4	4	3	5	5	1	0	0	0	0	0	0	2
4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	0	1	1	1	1	0
5	2	4	7	8	5	2	0	1	4	6	9	6	7	5	1	1	1	0	2	1	2	3	2	3	3
6	4	3	2	2	2	1	2	2	0	1	8	4	4	10	13	17	6	5	3	2	2	3	3	2	4
7	1	2	3	3	3	3	3	3	5	9	6	0	0	0	0	0	0	0	0	0	0	0	0	12	2
8	8	6	6	6	6	4	3	4	5	6	1	3	2	3	1	0	3	2	1	0	0	1	1	1	3
9	0	0	0	0	0	0	0	1	1	0	1	3	3	2	2	0	0	0	0	0	0	0	0	3	1
10	2	3	7	4	2	0	1	4	3	4	3	2	1	2	2	0	1	1	0	0	0	1	2	2	2
11	0	0	0	0	0	1	3	4	5	5	1	1	3	3	4	5	4	4	1	0	0	1	0	1	2
12	0	3	4	3	2	1	2	14	21	23	20	15	20	21	18	10	2	2	1	4	10	13	6	5	9
13	4	4	3	5	6	6	4	5	6	9	7	3	3	3	2	2	2	2	1	1	2	3	3	4	4
14	4	3	3	2	3	1	3	2	6	8	4	6	5	3	4	2	2	5	6	8	7	4	5	6	4
15	4	4	3	3	1	4	3	5	3	10	6	3	2	8	10	8	13	7	3	2	1	0	2	5	5
16	5	5	7	7	6	6	11	25	19	18	22	23	23	31	19	15	9	7	7	5	3	2	1	4	12
17	5	7	6	4	4	3	3	5	9	23	26	20	23	23	22	20	18	18	24	30	29	29	20	17	16
18	13	7	6	8	11	7	20	30	29	22	10	10	11	9	8	5	4	3	6	5	7	3	2	4	10
19	3	3	2	1	3	5	3	6	5	3	4	5	4	4	4	5	6	6	6	5	9	7	10	7	5
20	9	10	8	7	6	7	6	10	9	9	6	4	2	3	3	2	4	4	4	3	7	7	7	4	6
21	4	3	3	5	2	2	3	6	11	9	3	5	4	3	8	7	9	8	4	6	8	5	10	8	6
22	7	6	7	7	6	6	5	0	1	4	8	5	5	1	2	1	2	3	1	1	3	2	3	3	4
23	1	2	2	1	1	0	3	1	1	3	3	3	3	2	1	1	2	1	1	2	2	2	4	3	2
24	2	3	4	2	2	1	1	2	3	2	2	3	6	2	1	1	3	1	0	1	1	2	4	2	2
25	1	1	0	0	0	0	0	0	1	1	1	2	0	1	2	1	2	0	0	1	0	0	1	1	1
26	0	1	0	2	1	1	2	2	3	6	11	10	6	9	11	6	4	2	3	3	2	2	2	3	4
27	3	2	4	1	1	4	4	7	7	11	11	12	14	15	19	18	14	8	5	2	2	2	2	4	7
28	4	3	4	3	1	1	1	2	7	12	12	16	10	6	3	3	6	4	3	3	5	5	9	5	5
29	4	4	4	4	3	3	1	0	4	3	2	M	M	2	3	3	5	3	4	1	1	2	3	3	3
30	2	1	1	2	2	1	0	2	1	1	3	1	1	2	1	1	3	1	0	0	0	1	1	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		
4	3	5	3	11	18	23	25	0	-	31	0	-	16	2	100	0

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

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

STATION : CHEUNG CHAU  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017  
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	73	91	78	64	71	60	72	97	110	97	72	56	63	61	42	49	32	17	31	40	36	50	108	83	65
2	83	57	96	110	97	90	100	106	67	43	40	43	61	68	68	64	43	29	37	74	95	141	67	11	70
3	10	10	13	9	11	59	75	81	59	49	56	34	34	24	21	24	22	14	21	12	6	9	20	16	29
4	13	6	3	4	3	4	5	3	3	3	5	5	6	12	10	29	41	14	17	28	21	43	32	19	14
5	37	39	49	54	35	23	30	9	21	14	13	9	11	9	6	8	9	5	18	23	27	24	15	18	21
6	30	M	22	14	19	21	32	25	23	12	25	22	17	22	22	23	10	13	15	20	24	25	59	22	22
7	23	31	32	63	43	60	57	42	30	19	12	5	2	8	23	7	5	12	30	20	35	53	48	63	30
8	54	64	58	57	48	33	42	24	16	18	9	7	4	5	5	4	12	12	10	9	9	10	10	8	22
9	7	6	7	5	11	11	21	38	24	9	28	30	8	7	5	3	4	9	8	18	22	32	28	55	17
10	54	54	56	43	17	6	10	14	12	10	8	4	2	4	4	3	6	5	9	9	17	14	11	7	16
11	32	33	27	27	38	37	41	37	23	28	6	4	5	6	5	6	8	13	13	11	12	39	45	35	22
12	29	57	66	61	60	48	48	51	65	83	99	104	66	57	54	45	50	75	80	95	148	188	110	47	74
13	66	29	16	28	33	24	35	50	53	59	59	53	44	48	15	12	11	10	10	11	16	19	21	33	31
14	31	25	23	12	26	7	14	11	16	23	19	29	19	10	9	6	6	12	18	24	18	19	30	17	18
15	13	11	11	12	9	21	17	21	23	60	39	46	18	15	15	13	15	17	13	14	12	8	13	43	20
16	27	29	40	55	66	64	80	105	81	56	62	54	56	68	48	70	78	36	34	25	30	27	31	34	52
17	37	58	83	41	44	29	31	66	89	82	68	34	32	31	33	36	34	39	68	63	83	51	65	100	54
18	63	40	37	51	50	48	79	126	124	45	11	10	9	10	9	9	9	9	12	12	14	10	7	11	34
19	8	6	5	4	6	10	11	14	8	5	5	6	6	5	6	8	8	10	10	11	12	8	17	11	8
20	27	M	43	20	25	40	41	60	51	39	21	5	6	4	5	4	7	10	11	7	14	11	11	8	20
21	9	8	9	9	11	9	25	36	44	51	11	15	9	9	10	10	9	13	10	14	20	16	23	21	17
22	19	15	15	21	13	14	25	19	30	34	38	37	32	3	3	3	5	7	7	7	11	9	17	11	16
23	8	9	9	14	8	8	18	8	15	20	7	4	2	6	4	3	4	3	5	13	17	15	21	17	10
24	17	21	27	16	10	13	16	16	19	22	6	9	7	3	3	3	7	3	5	7	8	10	12	10	11
25	8	6	4	7	5	3	6	2	3	3	4	3	5	3	5	5	8	8	6	9	7	5	7	5	5
26	8	6	5	6	8	6	7	4	5	10	15	9	7	11	16	8	5	5	11	10	10	10	15	16	9
27	24	21	18	9	16	26	44	46	37	44	49	41	39	37	38	38	41	28	24	12	11	9	6	13	28
28	15	8	9	9	12	25	18	9	10	14	12	13	14	8	4	4	7	9	10	12	14	16	29	15	12
29	15	13	13	16	9	11	7	7	8	6	5	M	M	4	4	6	9	9	13	6	5	9	9	10	9
30	10	6	6	9	9	7	6	9	10	13	28	6	5	6	8	9	15	5	9	7	7	5	6	6	9

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
17	15	26	15	61	78	98	110	2	-	188	5	-	74	3	99	0

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

## Appendix C Summary Results on Water Quality Monitoring

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

Period : July – September 2017

Week Ending	No. of Samples	Suspended Solids, mg/L			pH		
		Maximum	Minimum	Average	Maximum	Minimum	Average
01/07/17	4*	18	13	16	8.1	7.8	8.0
08/07/17	3*	20	13	17	8.3	8.0	8.1
15/07/17	5*	22	15	18	8.3	7.8	8.1
22/07/17	7	21	11	17	8.3	7.9	8.2
29/07/17	6*	21	13	17	8.3	7.8	8.1
05/08/17	5*	22	14	17	8.3	8.1	8.2
12/08/17	7	22	12	18	8.3	7.8	8.1
19/08/17	6*	21	16	19	8.2	7.8	8.0
26/08/17	4*	22	14	18	8.2	7.9	8.1
02/09/17	7	21	14	17	8.2	7.9	8.0
09/09/17	7	22	12	17	8.3	7.8	8.1
16/09/17	7	23	11	18	8.3	7.7	8.1
23/09/17	7	22	10	16	8.3	7.8	8.1
30/09/17	6*	21	11	17	8.3	7.7	8.0

Remark :

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

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

Period : July – September 2017

Sampling date		4/7/2017	3/8/2017	5/9/2017
Barium,	ug/L	<150	<150	<150
Mercury,	ug/L	<0.5	<0.5	<0.5
Cadmium,	ug/L	2	<1	<1
Iron,	ug/L	<400	<400	<400
Total Phosphorous,	mg/L	<0.8	<0.8	<0.8
Total Nitrogen,	mg/L	73	109	137
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