

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  
October – December 2017**

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

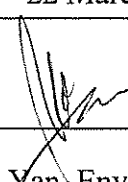


**ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499**

**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 (October to December 2017)
Date	22 March 2018
Certified by	 (Mr. IP Tat-Yan, Environmental Team Leader)

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## EXECUTIVE SUMMARY

This is the quarterly Environmental Monitoring and Audit (EM&A) report for the Projects “Lamma Power Station Units L4 & L5 Flue Gas Desulphurization Plant Retrofit” and “Lamma Power Station Unit L2 Flue Gas Desulphurization Plant Retrofit” prepared by the Environmental Team (ET). This report presents the results of impact monitoring on air and water quality and environmental audit for the operation of the said projects in the period from October to December 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	11/10/2017 20:11 to 12/10/2017 07:01	Defect rectification
L2	16/10/2017 00:05 to 03/11/2017 14:23	Unit overhaul
L2	11/11/2017 07:26 to 11/11/2017 19:00	Defect rectification
L2	24/12/2017 08:30 to 24/12/2017 18:30	Defect rectification
L4	11/12/2017 14:18 to 12/12/2017 12:52	Defect rectification
L5	18/11/2017 02:00 to 19/11/2017 02:31	Defect rectification
L5	12/12/2017 19:53 to 31/12/2017 23:59	Unit overhaul

### 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	17/11/2017 16:05 to 04/12/2017 13:30	BUF defect rectification	EPD was informed on 06/12/2017
L4 FGD	17/10/2017 07:03 to 17/10/2017 18:10	GGH washing	EPD was informed on 19/10/2017

Equipment	Period	Cause	Actions Taken
L5 FGD	06/12/2017 00:00 to 04/02/2018 06:50	Defect rectification	EPD was informed on 05/02/2018

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

### Environmental Monitoring Works

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

#### *Air Quality*

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

#### *Water Quality*

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

### Environmental Licensing and Permitting

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

### Implementation Status of Environmental Mitigation Measures

Environmental mitigation measures were implemented in the reporting period.

### Environmental Complaints

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

### Future key issues

Key issues to be considered in the coming months include:

*Air Impact*

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

*Water Impact*

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

**Concluding Remarks**

The environmental performance of the projects was generally satisfactory.

## 1. INTRODUCTION

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

This report summarizes the environmental monitoring and audit work for the said Projects for the period from October to December 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	11/10/2017 20:11 to 12/10/2017 07:01	Defect rectification
L2	16/10/2017 00:05 to 03/11/2017 14:23	Unit overhaul
L2	11/11/2017 07:26 to 11/11/2017 19:00	Defect rectification
L2	24/12/2017 08:30 to 24/12/2017 18:30	Defect rectification
L4	11/12/2017 14:18 to 12/12/2017 12:52	Defect rectification
L5	18/11/2017 02:00 to 19/11/2017 02:31	Defect rectification
L5	12/12/2017 19:53 to 31/12/2017 23:59	Unit overhaul

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

Equipment	Period	Cause	Actions Taken
L4 FGD	07/10/2017 02:47 to 07/10/2017 03:06	Routine damper exercise	EPD was informed on 11/10/2017
L5 FGD	07/10/2017 02:37 to 07/10/2017 02:43	Routine damper exercise	EPD was informed on 11/10/2017
L4 FGD	17/10/2017 07:03 to 17/10/2017 18:10	GGH washing	EPD was informed on 19/10/2017
L5 FGD	28/10/2017 01:49 to 28/10/2017 01:51	Routine damper exercise	EPD was informed on 01/11/2017
L2 FGD	17/11/2017 16:05 to 04/12/2017 13:30	BUF defect rectification	EPD was informed on 06/12/2017
L5 FGD	04/11/2017 02:55 to 04/11/2017 03:00	Routine damper exercise	EPD was informed on 08/11/2017
L5 FGD	11/11/2017 02:05 to 11/11/2017 02:07	Routine damper exercise	EPD was informed on 16/11/2017
L4 FGD	24/12/2017 02:33 to 24/12/2017 02:41	Routine damper exercise	EPD was informed on 28/12/2017

L5 FGD	06/12/2017 00:00 to 04/02/2018 06:50	Defect rectification	EPD was informed on 05/02/2018
L4 FGD	30/12/2017 02:10 to 30/12/2017 02:14	Routine damper exercise	EPD was informed on 02/01/2018

## 1.5 Summary of EM&A Requirements

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

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

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

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

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

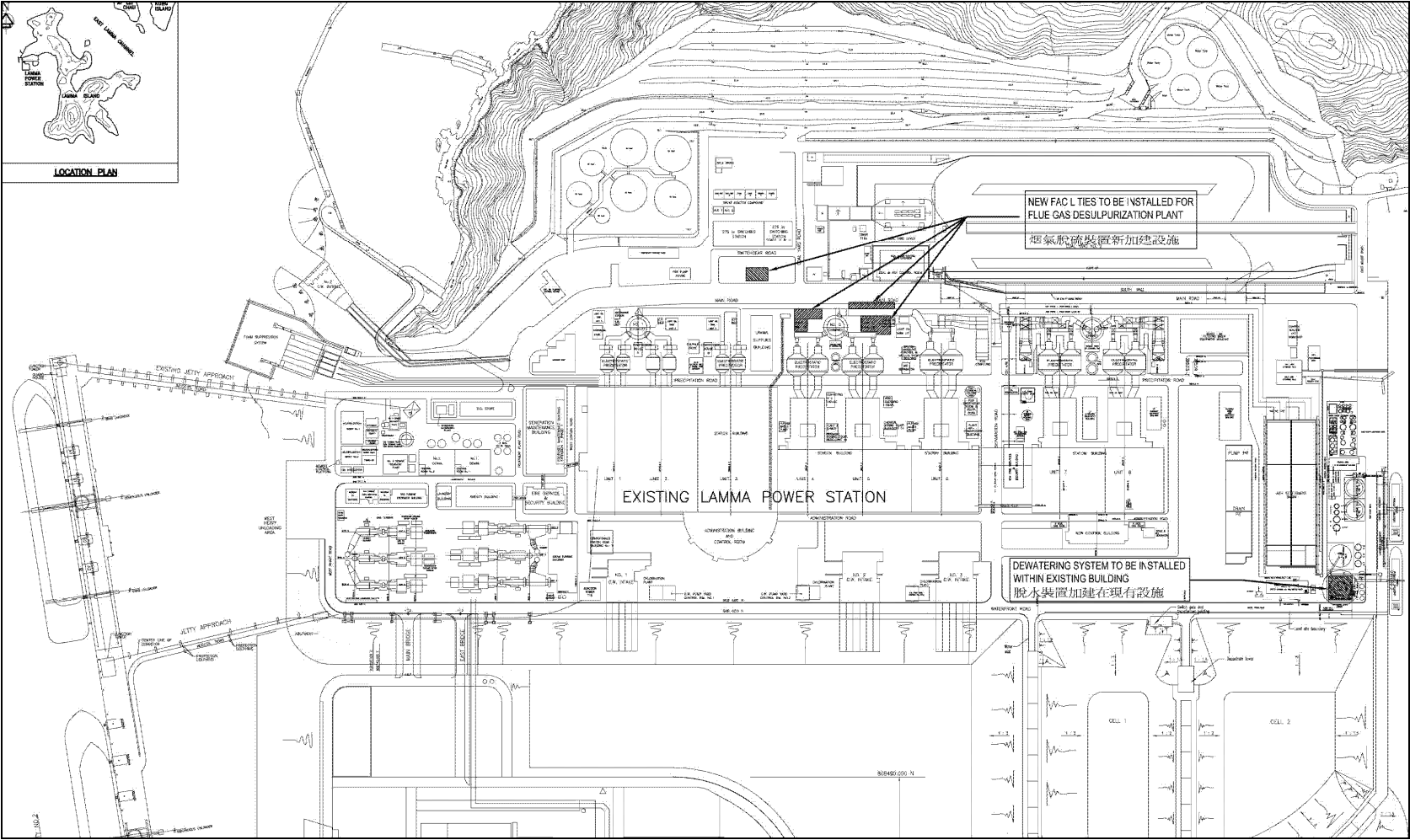


Figure 1.1a Location of New Facilities for L4 & L5 FGD Plants

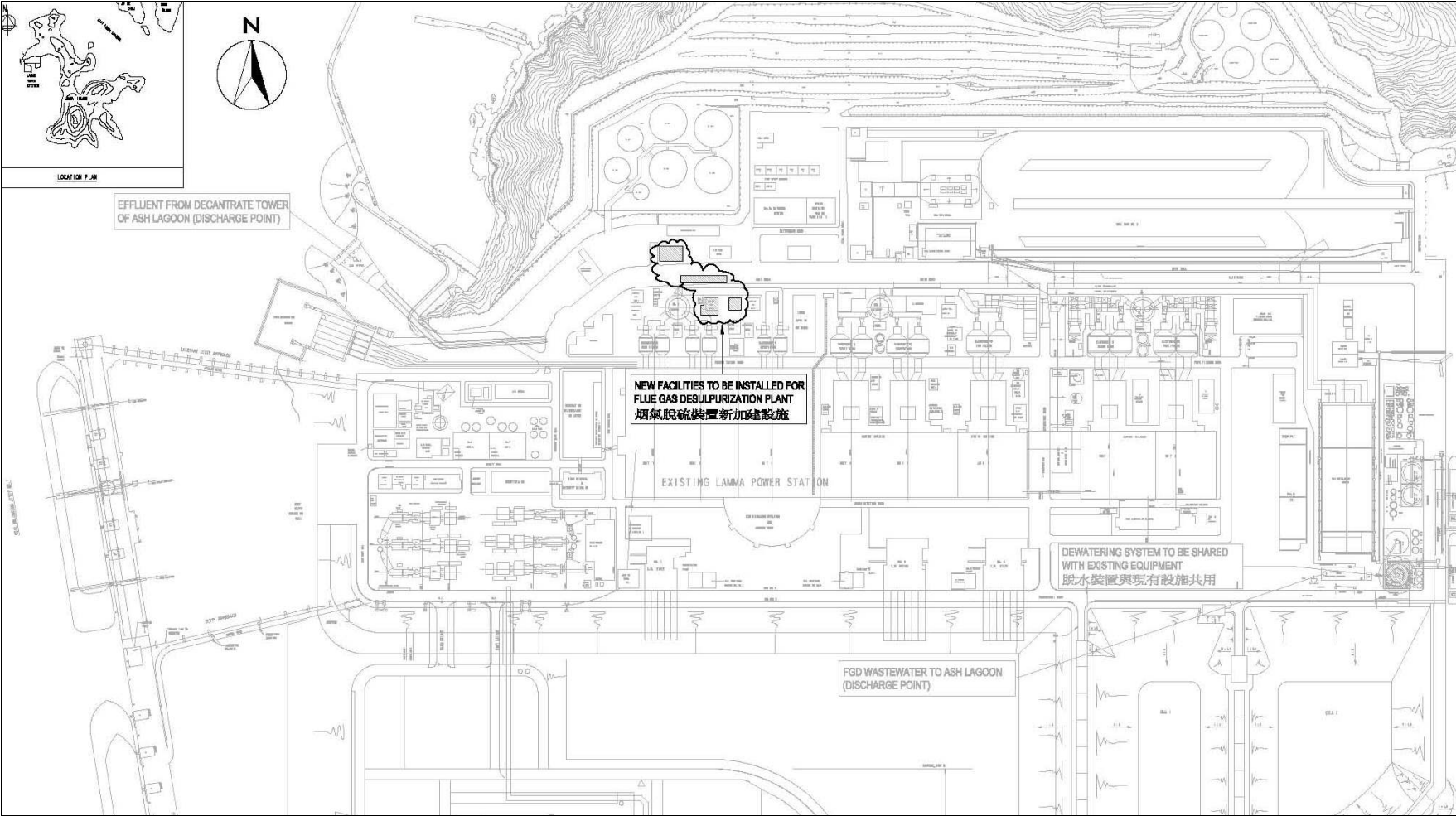


Figure 1.1b Location of New Facilities for L2 FGD Plant

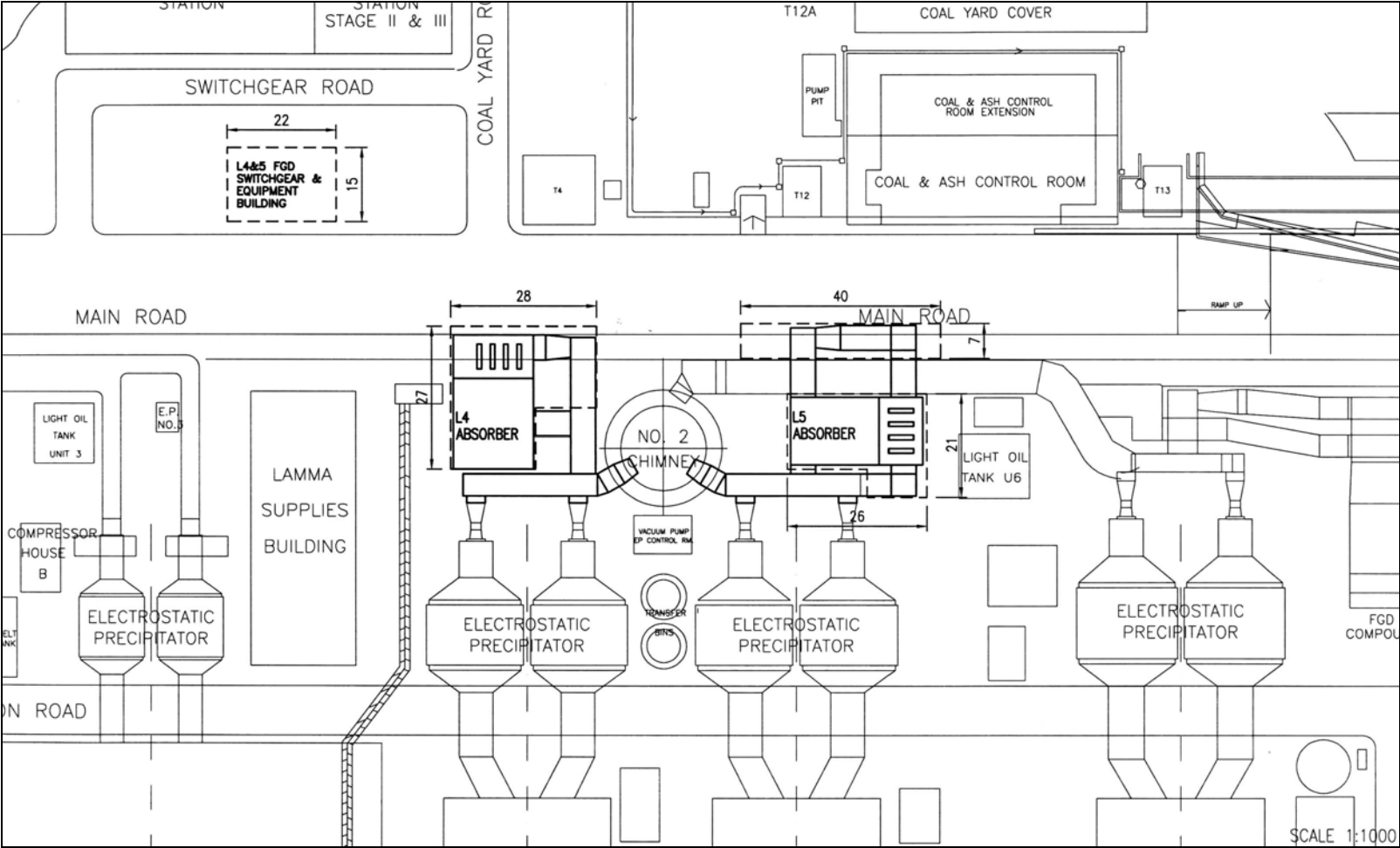


Figure 1.2a General Arrangement of L4 & L5 FGD Plants

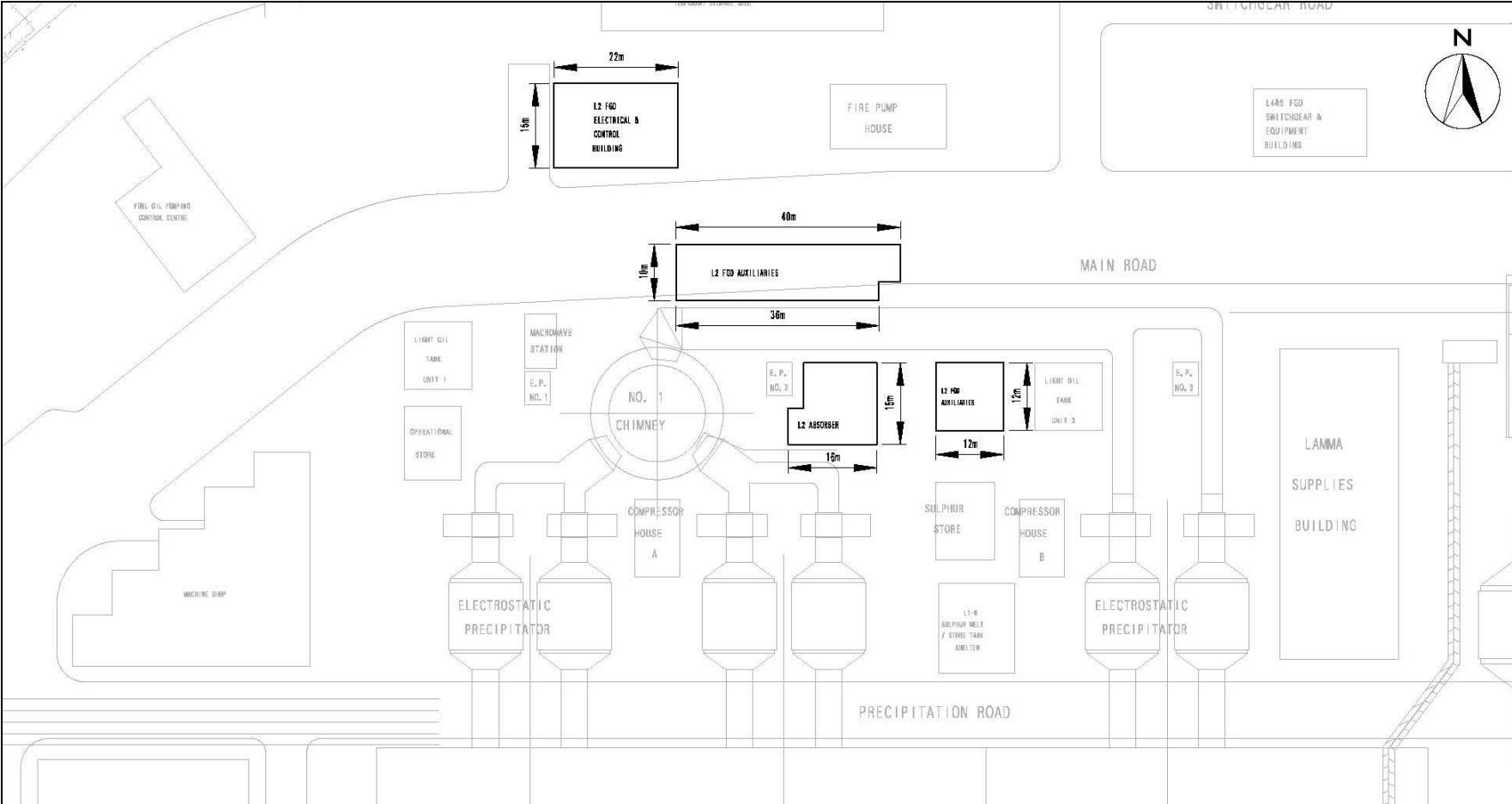


Figure 1.2b General Arrangement of L2 FGD Plant

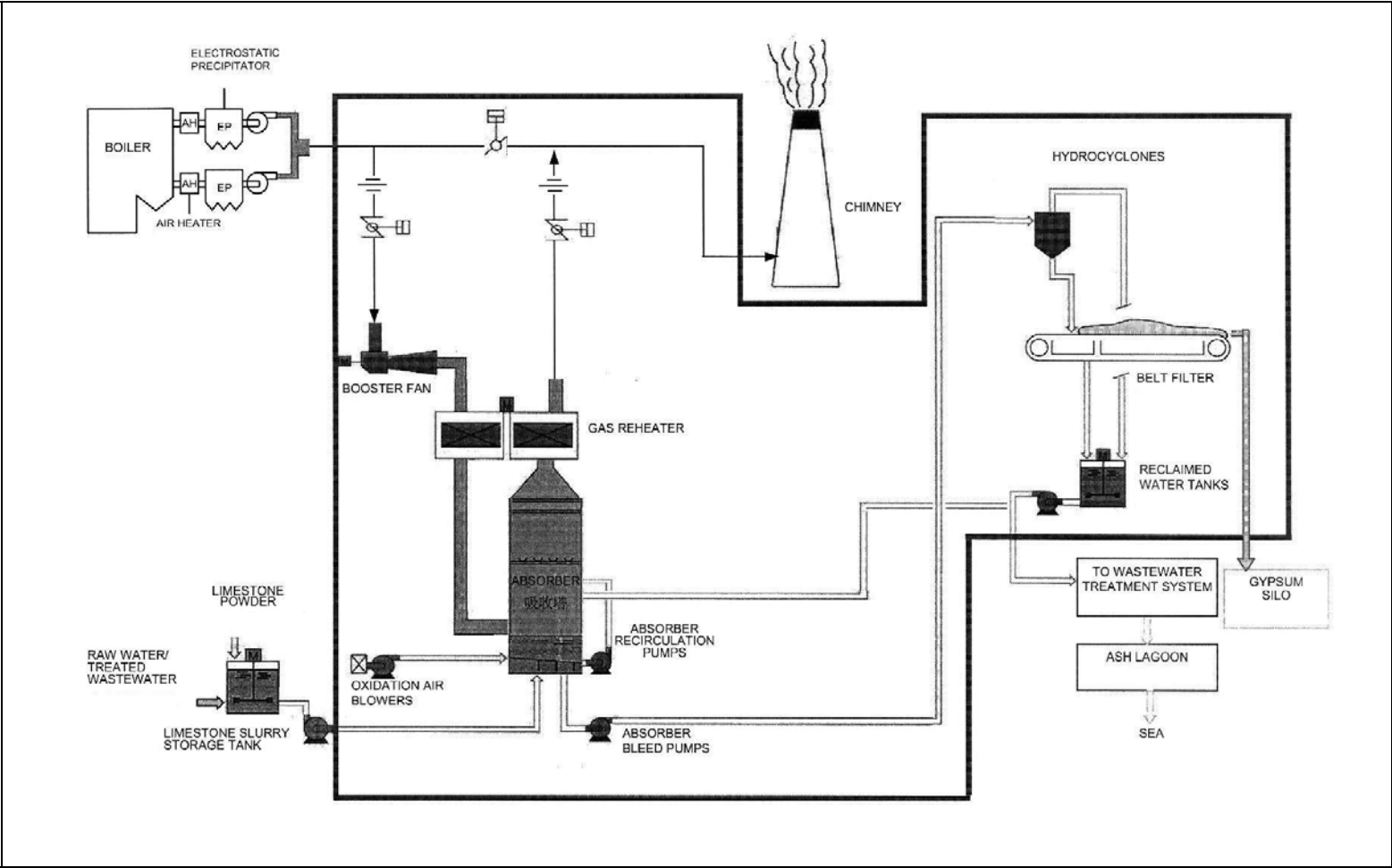


Figure 1.3 Schematic Diagram of the L2, L4 & L5 FGD Plant

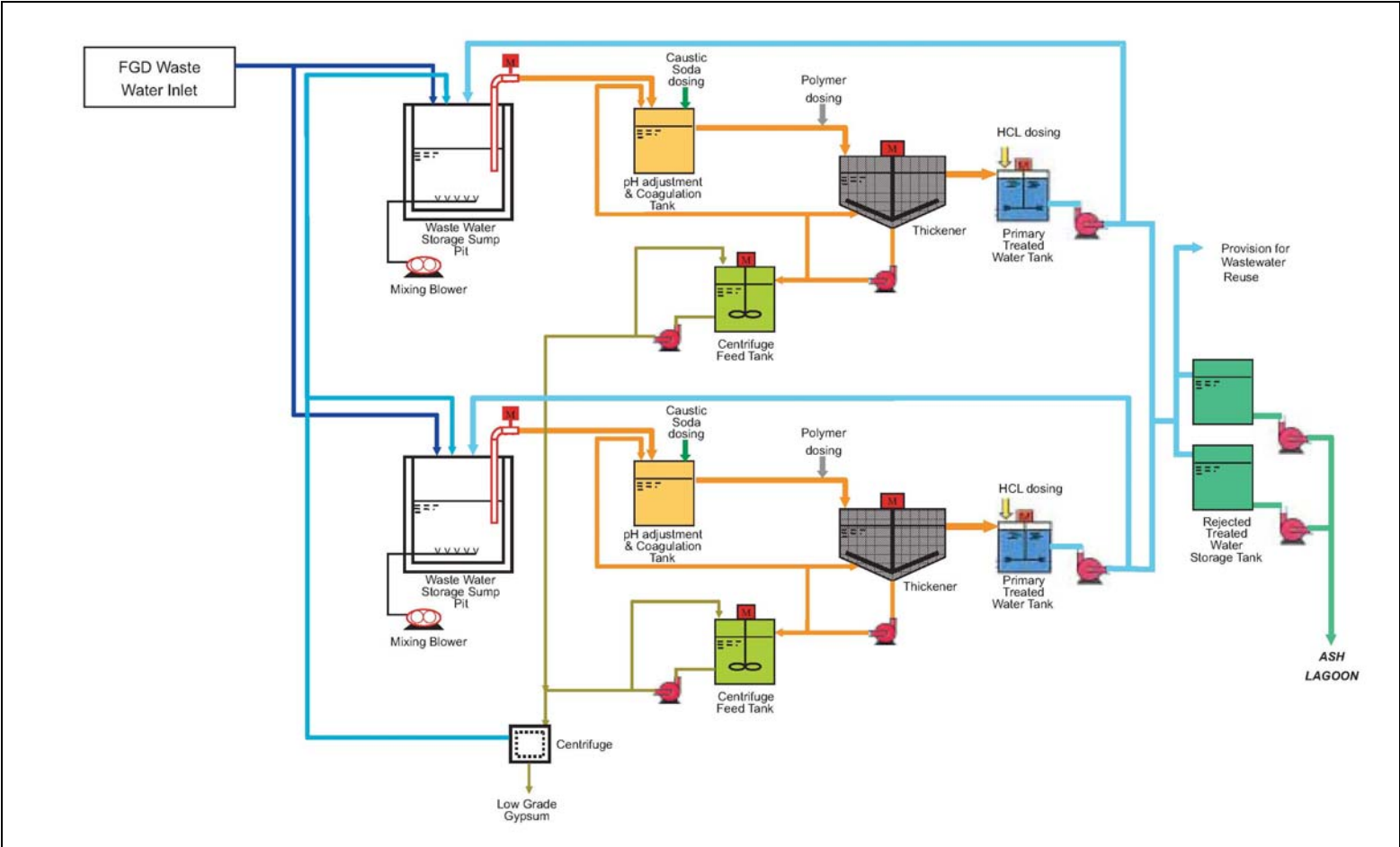


Figure 1.4 Simplified Schematic Diagram of FGD Wastewater Treatment Plant

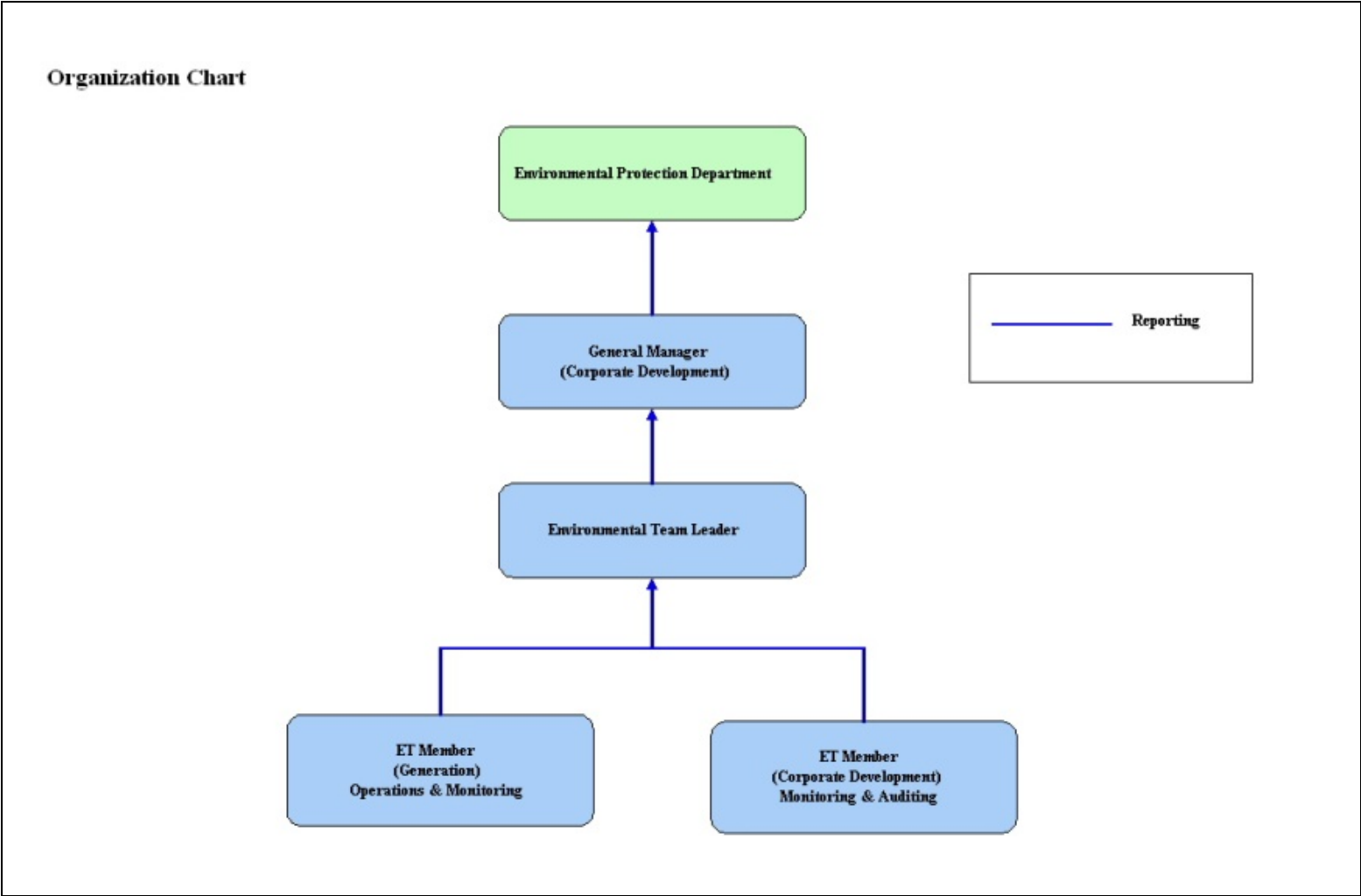


Figure 1.5 Organization Structure at Operational Phase of the Projects

## 2. AIR QUALITY

### 2.1 Monitoring Requirements

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

Table 2.1 Air Quality Monitoring Parameters and Frequency

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

### 2.2 Summary of Results and Observations

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

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

### 3. WATER QUALITY

#### 3.1 Monitoring Requirements

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

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

Table 3.1 Water Quality Monitoring Parameters and Frequencies

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

#### 3.2 Summary of Results and Observations

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

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

## 4. ENVIRONMENTAL AUDIT

### 4.1 Review of Environmental Monitoring Procedures

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

### 4.2 Assessment of Environmental Monitoring Results

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

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

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

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
Air					
1	Annual analysis of dust particulate emission rates at chimney stacks.	01/10/17 31/12/17	N.A.	0	L4, L5 PM stack sampling tests were conducted in the reporting period.
2	Continuous monitoring of opacity, NOx, SO2 and CO2 in the flue gas at the chimney stacks	01/10/17 31/12/17	0	0	
3	Ambient SO2 & NOx monitoring at the Peak, Queen Mary Hospital, Victoria Road, Chung Hom Kok, Ap Lei Chau and Cheung Chau.	01/10/17 31/12/17	0	0	
Water					
1	pH in WWTP Effluent	01/10/17 31/12/17	0	0	
2	Suspended Solids in WWTP Effluent	01/10/17 31/12/17	0	0	

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
3	Iron in WWTP Effluent	01/10/17 31/12/17	0	0	
4	Barium in WWTP Effluent	01/10/17 31/12/17	0	0	
5	Mercury in WWTP Effluent	01/10/17 31/12/17	0	0	
6	Cadmium in WWTP Effluent	01/10/17 31/12/17	0	0	
7	Cyanide in WWTP Effluent	01/10/17 31/12/17	0	0	
8	Total Phosphorus in WWTP Effluent	01/10/17 31/12/17	0	0	
9	Total Nitrogen in WWTP Effluent	01/10/17 31/12/17	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
October 2017	6863.6 MT	0 MT
November 2017	2963.1 MT	55.4 MT
December 2017	3054.1 MT	138.2 MT

#### 4.3 Status of Environmental Licensing and Permitting

All permits/licenses obtained as of December 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	

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
L4	05/02/2018 to 25/02/2018	Unit Overhaul
L5	01/01/2018 to 03/02/2018	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 October to December 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/Nm3	-	50	ET Leader informs Generation Division at action level. Maintenance initiated. Temporary load shift until pollution control equipment repaired and reinstated. Report to EPD.
	Particulate (Opacity)	continuous	40% (bihourly)	35	40	
	SO2	continuous	200 mg/Nm3 (1h)	190	200	
	NOx expressed as NO2 (For L4 and L5 only)	continuous	615 mg/Nm3 (1h)	585	615	
Chimney emissions	Ambient air	Continuous at existing ambient air monitoring stations				ET to review data on post-hoc basis and check for possible power station contribution.
	SO2		800 (µg/m3) (1h)	-	800	
	NO2		300 (µg/m3) (1h)	-	300	

## A.2 Water

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

## Appendix B

### Air Quality Monitoring Results

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

Date: Fourth Quarter of 2017 (October - December)

Date	RSP concentration ( $\mu\text{g}/\text{m}^3$ )	
	Reservoir	East Gate
01/10/2017	23	27
02/10/2017	16	22
03/10/2017	16	24
04/10/2017	34	33
05/10/2017	30	28
06/10/2017	33	33
07/10/2017	28	25
08/10/2017	38	37
09/10/2017	30	28
10/10/2017	32	33
11/10/2017	26	26
12/10/2017	36	32
13/10/2017	40	42
14/10/2017	39	38
15/10/2017	17	27
16/10/2017	17	18
17/10/2017	17	20
18/10/2017	29	28
19/10/2017	34	34
20/10/2017	36	34
21/10/2017	39	39
22/10/2017	50	51
23/10/2017	53	53
24/10/2017	70	67
25/10/2017	50	48
26/10/2017	55	50
27/10/2017	58	56
28/10/2017	64	63
29/10/2017	65	64
30/10/2017	57	56
31/10/2017	73	71

Date	RSP concentration ( $\mu\text{g}/\text{m}^3$ )	
	Reservoir	East Gate
01/11/2017	35	35
02/11/2017	44	42
03/11/2017	53	54
04/11/2017	60	65
05/11/2017	84	85
06/11/2017	50	49
07/11/2017	48	47
08/11/2017	41	40
09/11/2017	34	41
10/11/2017	42	37
11/11/2017	43	39
12/11/2017	32	33
13/11/2017	16	16
14/11/2017	20	19
15/11/2017	22	18
16/11/2017	29	29
17/11/2017	30	26
18/11/2017	27	##
19/11/2017	20	17
20/11/2017	28	28
21/11/2017	30	33
22/11/2017	48	53
23/11/2017	49	49
24/11/2017	51	51
25/11/2017	49	49
26/11/2017	53	52
27/11/2017	27	27
28/11/2017	37	36
29/11/2017	27	24
30/11/2017	24	23

Remark: ## - No valid daily average of RSP due to equipment fault

Date	RSP concentration ( $\mu\text{g}/\text{m}^3$ )	
	Reservoir	East Gate
01/12/2017	26	25
02/12/2017	29	33
03/12/2017	41	39
04/12/2017	46	46
05/12/2017	47	47
06/12/2017	52	53
07/12/2017	60	59
08/12/2017	67	61
09/12/2017	75	78
10/12/2017	86	86
11/12/2017	60	59
12/12/2017	69	67
13/12/2017	27	25
14/12/2017	30	27
15/12/2017	39	38
16/12/2017	55	53
17/12/2017	33	34
18/12/2017	68	74
19/12/2017	56	59
20/12/2017	51	49
21/12/2017	43	46
22/12/2017	50	55
23/12/2017	49	49
24/12/2017	100	93
25/12/2017	74	74
26/12/2017	81	83
27/12/2017	44	45
28/12/2017	49	52
29/12/2017	42	43
30/12/2017	22	21
31/12/2017	44	47

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

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

Date	Daily Maximum		
	SO <sub>2</sub> concentration (mg/Nm <sup>3</sup> ) <sup>#</sup>	NO <sub>x</sub> concentration (mg/Nm <sup>3</sup> ) <sup>#</sup>	Opacity (%)
1/10/2017	55	266	6
2/10/2017	60	313	7
3/10/2017	102	318	20
4/10/2017	66	292	14
5/10/2017	64	274	7
6/10/2017	48	295	6
7/10/2017	39	300	7
8/10/2017	60	328	6
9/10/2017	31	348	12
10/10/2017	28	413	11
11/10/2017	41	376	14
12/10/2017	63	352	13
13/10/2017	54	347	10
14/10/2017	37	355	8
15/10/2017	*	*	*
16/10/2017	78	307	7
17/10/2017	59	316	6
18/10/2017	62	223	5
19/10/2017	84	330	5
20/10/2017	48	369	5
21/10/2017	23	374	6
22/10/2017	27	351	6
23/10/2017	30	343	9
24/10/2017	41	320	6
25/10/2017	55	297	6
26/10/2017	93	329	6
27/10/2017	74	295	6
28/10/2017	65	342	6
29/10/2017	60	320	12
30/10/2017	38	388	6
31/10/2017	28	353	6

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/11/2017	28	308	7
2/11/2017	25	325	7
3/11/2017	38	312	6
4/11/2017	68	377	6
5/11/2017	76	343	7
6/11/2017	81	367	6
7/11/2017	74	340	6
8/11/2017	44	300	6
9/11/2017	44	356	7
10/11/2017	43	329	9
11/11/2017	37	348	6
12/11/2017	30	323	6
13/11/2017	34	299	8
14/11/2017	32	340	9
15/11/2017	32	326	10
16/11/2017	49	333	6
17/11/2017	41	311	7
18/11/2017	*	*	*
19/11/2017	*	*	*
20/11/2017	43	330	8
21/11/2017	48	438	7
22/11/2017	42	386	7
23/11/2017	46	457	7
24/11/2017	43	477	6
25/11/2017	50	409	6
26/11/2017	41	408	6
27/11/2017	40	413	7
28/11/2017	40	412	9
29/11/2017	32	308	10
30/11/2017	39	347	6

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/12/2017	47	404	6
2/12/2017	41	434	6
3/12/2017	54	428	6
4/12/2017	51	410	6
5/12/2017	41	427	6
6/12/2017	FGD Plant Outage	428	7
7/12/2017	FGD Plant Outage	416	6
8/12/2017	FGD Plant Outage	441	5
9/12/2017	FGD Plant Outage	433	5
10/12/2017	FGD Plant Outage	422	6
11/12/2017	FGD Plant Outage	417	5
12/12/2017	FGD Plant Outage	415	5
13/12/2017	*	*	*
14/12/2017	*	*	*
15/12/2017	*	*	*
16/12/2017	*	*	*
17/12/2017	*	*	*
18/12/2017	*	*	*
19/12/2017	*	*	*
20/12/2017	*	*	*
21/12/2017	*	*	*
22/12/2017	*	*	*
23/12/2017	*	*	*
24/12/2017	*	*	*
25/12/2017	*	*	*
26/12/2017	*	*	*
27/12/2017	*	*	*
28/12/2017	*	*	*
29/12/2017	*	*	*
30/12/2017	*	*	*
30/12/2017	*	*	*

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 (%)
1/10/2017	69	344	20
2/10/2017	58	367	23
3/10/2017	72	336	25
4/10/2017	67	318	25
5/10/2017	51	311	17
6/10/2017	48	322	21
7/10/2017	37	296	21
8/10/2017	36	295	12
9/10/2017	30	329	19
10/10/2017	35	343	19
11/10/2017	39	364	19
12/10/2017	58	331	20
13/10/2017	40	334	22
14/10/2017	30	314	13
15/10/2017	65	321	8
16/10/2017	87	352	20
17/10/2017	42	339	20
18/10/2017	39	360	13
19/10/2017	27	343	15
20/10/2017	16	310	16
21/10/2017	*	*	*
22/10/2017	*	*	*
23/10/2017	*	*	*
24/10/2017	*	*	*
25/10/2017	*	*	*
26/10/2017	*	*	*
27/10/2017	26	446	20
28/10/2017	*	*	*
29/10/2017	*	*	*
30/10/2017	*	*	*
31/10/2017	*	*	*

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/11/2017	28	312	15
2/11/2017	39	319	17
3/11/2017	75	355	20
4/11/2017	70	362	18
5/11/2017	65	394	13
6/11/2017	56	383	20
7/11/2017	58	337	18
8/11/2017	66	421	8
9/11/2017	76	358	20
10/11/2017	55	322	18
11/11/2017	31	336	15
12/11/2017	17	394	8
13/11/2017	28	289	16
14/11/2017	29	317	16
15/11/2017	16	274	15
16/11/2017	43	369	17
17/11/2017	50	319	17
18/11/2017	37	418	18
19/11/2017	26	345	12
20/11/2017	16	359	15
21/11/2017	26	401	12
22/11/2017	18	462	14
23/11/2017	30	384	10
24/11/2017	20	352	13
25/11/2017	30	356	10
26/11/2017	*	*	*
27/11/2017	37	437	14
28/11/2017	22	366	12
29/11/2017	28	520	13
30/11/2017	15	385	16

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/12/2017	56	413	16
2/12/2017	15	467	14
3/12/2017	11	467	15
4/12/2017	13	455	17
5/12/2017	16	442	20
6/12/2017	19	497	26
7/12/2017	23	352	15
8/12/2017	37	388	13
9/12/2017	18	463	10
10/12/2017	*	*	*
11/12/2017	13	281	17
12/12/2017	5	334	14
13/12/2017	6	385	17
14/12/2017	10	386	9
15/12/2017	26	383	8
16/12/2017	19	374	18
17/12/2017	17	388	17
18/12/2017	22	359	18
19/12/2017	16	404	20
20/12/2017	17	381	21
21/12/2017	14	425	22
22/12/2017	19	420	15
23/12/2017	14	376	16
24/12/2017	20	407	14
25/12/2017	26	362	15
26/12/2017	24	348	18
27/12/2017	24	335	17
28/12/2017	24	485	14
29/12/2017	33	379	16
30/12/2017	47	395	18
31/12/2017	46	328	15

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

\* - Unit L4 was not on load.

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

Date	Daily Maximum	
	SO <sub>2</sub> concentration (mg/Nm <sup>3</sup> ) <sup>#</sup>	Opacity (%)
1/10/2017	74	14
2/10/2017	65	13
3/10/2017	93	15
4/10/2017	70	13
5/10/2017	68	13
6/10/2017	67	14
7/10/2017	*	*
8/10/2017	*	*
9/10/2017	77	14
10/10/2017	75	13
11/10/2017	53	13
12/10/2017	87	13
13/10/2017	85	13
14/10/2017	*	*
15/10/2017	*	*
16/10/2017	*	*
17/10/2017	*	*
18/10/2017	*	*
19/10/2017	*	*
20/10/2017	*	*
21/10/2017	*	*
22/10/2017	*	*
23/10/2017	*	*
24/10/2017	*	*
25/10/2017	*	*
26/10/2017	*	*
27/10/2017	*	*
28/10/2017	*	*
29/10/2017	*	*
30/10/2017	*	*
31/10/2017	*	*

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/11/2017	*	*
2/11/2017	*	*
3/11/2017	96	10
4/11/2017	*	*
5/11/2017	*	*
6/11/2017	102	10
7/11/2017	102	10
8/11/2017	*	*
9/11/2017	111	14
10/11/2017	66	13
11/11/2017	*	*
12/11/2017	*	*
13/11/2017	92	17
14/11/2017	97	17
15/11/2017	60	16
16/11/2017	*	*
17/11/2017	63	18
18/11/2017	FGD Plant Outage	17
19/11/2017	*	*
20/11/2017	*	*
21/11/2017	*	*
22/11/2017	*	*
23/11/2017	*	*
24/11/2017	*	*
25/11/2017	*	*
26/11/2017	*	*
27/11/2017	*	*
28/11/2017	*	*
29/11/2017	*	*
30/11/2017	FGD Plant Outage	29

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/12/2017	*	22
2/12/2017	*	*
3/12/2017	*	*
4/12/2017	63	17
5/12/2017	71	10
6/12/2017	68	10
7/12/2017	45	11
8/12/2017	61	10
9/12/2017	*	*
10/12/2017	59	15
11/12/2017	58	11
12/12/2017	59	11
13/12/2017	56	12
14/12/2017	54	14
15/12/2017	56	14
16/12/2017	82	14
17/12/2017	70	13
18/12/2017	79	14
19/12/2017	76	16
20/12/2017	66	15
21/12/2017	73	15
22/12/2017	58	13
23/12/2017	*	*
24/12/2017	*	*
25/12/2017	*	*
26/12/2017	*	*
27/12/2017	59	13
28/12/2017	62	12
29/12/2017	69	13
30/12/2017	76	13
31/12/2017	80	13

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

\* - Unit L2 was not on load.

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

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

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL	
2	1	2	1	5	7	10	14	0	-	15	0	-	8	2	89	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:OCTOBER

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	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
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0
3	0	0	2	1	0	0	0	0	1	8	4	4	1	0	1	1	3	3	1	3	1	0	0	0	2
4	0	M	0	0	0	0	1	2	3	6	2	1	1	0	0	0	0	1	0	0	0	0	0	0	1
5	0	0	0	0	0	0	0	1	2	3	2	1	1	5	2	6	4	1	2	2	1	0	0	0	1
6	0	0	0	0	0	0	1	2	7	10	6	6	8	9	4	7	20	20	12	8	3	5	4	0	6
7	0	0	0	0	0	0	2	3	5	5	4	3	2	8	13	3	3	2	0	0	1	0	0	1	2
8	1	0	1	0	1	1	6	13	20	18	12	9	12	14	19	10	1	4	2	2	1	0	0	1	6
9	0	0	0	0	0	0	5	8	17	9	2	0	0	0	4	4	2	1	0	0	0	0	0	0	2
10	0	0	0	0	0	1	4	7	6	7	6	6	2	3	3	9	6	4	1	13	1	3	1	4	4
11	1	0	0	0	0	1	3	6	12	13	9	8	5	2	4	10	6	6	6	6	3	1	3	3	5
12	3	0	0	0	0	1	7	10	24	28	19	19	13	16	21	33	31	20	13	30	44	34	23	25	17
13	18	15	13	12	9	17	18	26	32	38	38	33	24	22	31	27	30	27	25	27	21	22	22	16	23
14	11	9	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
15	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
16	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
17	T	T	T	T	T	T	T	T	T	7	5	3	7	10	12	17	14	27	30	31	21	18	21		
18	23	M	11	6	5	3	18	25	28	34	20	18	11	14	19	25	26	35	38	34	37	28	23	25	22
19	25	25	18	16	10	7	14	30	31	36	28	25	27	24	27	22	19	29	49	49	37	33	40	22	27
20	27	18	12	7	7	5	15	26	41	28	29	23	31	26	24	27	31	37	28	24	27	23	23	19	23
21	15	11	12	6	5	8	17	24	21	27	29	29	18	17	21	29	31	30	33	44	43	37	32	20	23
22	18	14	11	7	10	13	19	19	23	24	24	23	26	22	20	29	42	30	40	54	39	38	37	21	25
23	16	11	12	9	7	7	13	31	60	65	37	23	16	14	24	40	26	30	11	13	17	10	12	14	22
24	13	11	7	5	5	4	11	24	28	27	15	16	21	25	33	26	33	20	23	27	8	7	7	5	17
25	5	6	2	2	2	3	8	21	22	10	11	11	8	7	8	9	12	14	27	18	18	12	8	8	11
26	7	2	3	3	2	1	13	31	37	42	34	34	28	25	18	28	46	42	38	53	40	38	28	11	25
27	26	17	23	24	15	14	15	31	46	62	56	43	45	44	38	29	43	74	92	114	95	82	51	52	47
28	71	54	20	15	10	12	11	22	26	29	32	32	27	26	28	42	55	73	55	58	76	39	35	28	37
29	22	18	12	10	9	10	13	26	35	36	37	27	24	25	29	32	45	47	65	61	55	40	33	27	31
30	25	15	7	6	4	7	18	38	49	49	34	26	23	26	24	26	38	42	47	43	42	38	35	24	29
31	23	11	9	8	7	10	19	41	33	30	37	32	41	39	47	M	M	19	17	15	15	8	16	15	22

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
12	11	16	11	38	45	58	72	0	-	114	0	-	47	3	89	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:OCTOBER

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	0	1	2	4	2	1	1	0	2	1	1	1	1	0	1	0	1	0	1	0	0	1	1
2	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	2	3	1	1	1
3	0	2	3	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	4	5	2	4	1	2
4	1	0	0	1	1	0	2	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	1	0	1	1	0	0	1	2	1	1	1	1	1	1	1	2	1
6	2	3	2	2	1	1	1	2	2	2	3	2	2	2	2	3	4	3	2	3	3	3	3	3	2
7	2	1	1	1	1	1	1	1	1	1	2	1	2	2	2	2	1	1	1	0	1	0	0	0	1
8	0	0	0	0	0	0	2	2	1	1	1	1	1	2	1	2	3	3	0	0	0	0	0	1	1
9	1	1	1	1	1	1	1	2	1	1	1	1	2	2	1	1	1	1	0	1	1	1	1	1	1
10	1	1	1	2	2	2	2	3	2	2	2	2	2	2	3	2	2	3	2	3	3	3	1	1	2
11	2	1	1	1	1	1	2	2	2	2	2	2	1	2	2	3	1	2	1	2	2	1	1	1	2
12	1	1	1	1	2	2	2	2	3	3	3	2	2	2	2	2	2	3	3	3	3	4	2	2	2
13	2	2	2	1	2	1	1	2	2	1	2	1	1	1	1	1	1	2	2	2	3	3	2	1	2
14	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
16	0	0	1	1	1	1	1	1	1	1	2	1	1	0	1	1	1	1	1	0	1	1	0	0	1
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
19	0	0	1	0	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	1	1
20	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	2	0	0	1
21	0	0	0	0	0	0	0	0	0	0	0	0	3	2	3	3	1	1	1	1	1	1	1	3	1
22	3	3	2	2	2	2	2	3	4	3	2	2	13	14	9	9	8	5	5	4	5	4	5	6	5
23	6	5	5	5	5	5	5	5	5	5	5	5	6	5	6	6	6	5	5	5	5	5	5	3	5
24	2	2	2	2	2	2	1	2	3	4	4	4	4	4	4	3	3	4	4	4	4	3	3	3	3
25	3	2	2	1	1	1	1	2	3	3	4	3	4	3	4	2	3	3	2	2	2	2	3	2	
26	3	3	3	3	3	2	2	3	4	4	5	7	6	5	5	5	5	5	6	6	7	6	4	3	4
27	2	3	3	4	7	7	7	7	7	5	6	5	5	5	6	6	6	21	32	27	27	37	55	26	13
28	9	8	9	8	7	7	6	6	6	5	4	3	3	12	8	7	4	10	14	13	14	16	6	9	8
29	9	10	9	9	9	9	9	8	8	8	7	6	6	7	6	5	6	7	7	6	6	6	7	7	7
30	7	7	6	7	7	6	6	7	6	6	5	5	4	4	4	3	4	3	4	5	5	4	3	3	5
31	2	3	3	3	4	5	5	6	5	5	5	5	4	4	4	4	4	3	3	3	4	3	2	1	4

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
2	1	3	1	6	7	10	15	0	-	55	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:OCTOBER

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	6	5	4	4	7	9	8	6	7	5	9	6	4	5	6	6	9	6	11	8	8	5	5	7	7
2	5	3	6	7	5	7	7	7	6	5	7	5	5	5	4	5	5	7	8	7	8	12	8	5	6
3	4	8	9	7	4	4	6	8	8	6	4	6	4	5	6	6	7	8	12	13	13	7	11	6	7
4	5	M	3	7	5	3	8	8	7	5	5	4	5	5	5	4	4	4	5	4	5	5	4	4	5
5	4	5	4	4	3	3	4	4	4	4	4	4	4	3	5	8	6	7	8	5	6	6	5	5	5
6	5	6	4	3	4	4	4	6	5	7	7	6	6	5	5	9	10	9	7	7	6	6	7	7	6
7	6	4	3	3	3	3	4	5	5	6	6	5	5	6	7	8	5	8	5	4	4	5	4	5	5
8	4	5	6	5	4	6	9	12	9	10	10	11	8	9	9	10	14	14	8	7	5	5	4	4	8
9	4	3	5	4	4	5	6	7	5	4	3	4	4	4	4	5	5	5	3	4	5	5	5	5	5
10	4	5	5	7	6	6	8	10	9	6	6	5	4	4	6	11	9	13	10	9	10	9	6	5	7
11	8	5	4	5	5	6	7	7	5	4	4	4	4	4	5	9	6	10	4	5	6	6	4	4	5
12	4	4	3	4	5	3	7	12	12	12	10	5	6	6	7	7	6	10	12	5	7	12	10	12	8
13	13	14	9	7	8	9	12	17	17	21	30	14	11	8	13	12	15	19	25	20	19	18	14	15	15
14	13	11	9	7	7	9	9	10	11	12	17	17	15	16	16	15	18	17	15	13	10	10	10	9	12
15	7	6	5	5	4	4	3	3	2	2	2	2	2	2	3	2	2	2	1	2	3	3	2	1	3
16	0	1	1	3	1	1	6	7	6	3	6	5	2	1	2	2	4	4	3	4	5	4	2	5	3
17	2	1	1	1	1	1	2	3	3	2	1	2	1	2	2	4	6	4	4	3	7	8	9	8	3
18	6	M	4	3	3	3	4	8	15	12	5	3	3	3	7	12	10	13	17	15	13	7	5	8	8
19	9	7	8	7	6	9	14	20	23	28	33	27	22	17	19	22	13	17	18	15	8	9	11	12	16
20	21	17	13	9	8	7	9	16	32	27	25	27	26	24	18	21	18	24	22	17	14	12	6	4	17
21	6	9	10	10	9	6	10	13	13	13	14	19	29	21	22	21	15	18	17	14	13	9	6	7	14
22	6	6	4	2	2	3	7	13	25	25	21	20	31	32	26	25	25	18	16	19	15	10	7	9	15
23	9	7	3	3	2	2	3	6	11	14	7	10	11	11	10	13	11	7	6	4	4	5	6	5	7
24	6	7	7	7	6	5	7	10	10	6	6	8	17	7	8	10	11	9	6	7	8	7	7	7	8
25	7	5	4	4	4	4	5	6	6	5	6	6	7	5	7	9	8	8	4	5	6	7	5	3	6
26	3	3	3	4	3	4	6	10	17	12	11	12	9	9	8	10	13	8	8	5	6	5	4	3	7
27	3	6	4	11	6	7	9	13	14	13	11	12	11	8	9	8	17	50	60	38	33	51	78	75	23
28	46	17	10	4	5	4	3	4	5	5	7	8	11	36	28	23	15	32	33	16	16	24	13	13	16
29	17	10	7	5	5	5	7	6	8	9	16	9	6	7	9	12	10	16	14	11	12	11	11	8	10
30	7	7	5	5	4	4	6	9	11	9	8	8	7	7	8	9	8	4	4	10	15	14	10	6	8
31	5	6	5	5	8	7	9	10	12	11	13	11	12	9	11	13	13	12	5	5	8	7	6	4	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	
7	7	9	7	17	22	30	35	0	-	78	3	-	23	2	100	0	

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

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

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

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

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

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
7	7	8	7	15	18	23	27	0	-	37	2	-	18	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:OCTOBER

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	1	1	0	0	1	2	2	1	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	1	2	1	2	0
4	1	0	0	0	0	1	1	1	1	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	1	0	0	1	0	1	1	0	0	0	0	0	0	1	0
6	1	1	1	0	0	0	0	0	0	0	1	2	1	1	1	0	1	3	2	2	1	2	2	1	1
7	0	0	0	0	0	0	0	1	0	1	1	0	2	1	3	0	0	0	0	0	0	0	0	1	0
8	1	1	1	1	0	1	3	5	6	2	2	1	3	3	8	2	3	2	2	1	1	1	1	1	2
9	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	0
10	1	1	2	2	2	2	1	1	2	2	1	2	1	2	1	3	2	0	0	4	1	0	0	1	1
11	0	0	0	0	1	1	2	2	1	2	1	1	0	1	1	2	2	1	1	3	1	1	0	1	1
12	1	0	0	0	0	0	0	1	2	4	1	0	0	0	2	7	3	1	2	2	5	10	2	1	2
13	0	0	0	0	0	2	0	1	0	0	0	0	0	2	1	0	0	1	1	0	1	1	0	0	0
14	0	0	0	0	0	0	0	0	1	1	0	0	1	2	2	2	2	1	1	1	1	0	0	0	1
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	1	1	0	0	0	0	0	1	1	1	3	1	1	0	0	1	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	1	1	3	4	6	2	1	1	0	0	0	0	0	0	1
21	0	0	0	0	0	0	1	1	1	0	0	1	5	5	2	1	0	0	0	1	1	0	0	1	1
22	1	1	1	1	0	2	1	1	1	1	1	2	7	6	5	6	2	2	3	3	2	3	3	3	2
23	3	2	1	0	0	0	0	2	2	2	4	1	2	1	7	13	22	3	1	2	2	1	1	2	3
24	2	3	3	2	2	2	2	3	4	3	4	4	3	8	6	11	5	3	4	4	4	4	3	1	4
25	1	2	0	0	0	0	0	1	1	1	2	2	2	2	1	1	0	2	1	1	0	0	0	3	1
26	2	2	2	2	3	2	2	2	6	4	11	13	14	14	11	21	9	6	4	3	3	3	2	4	6
27	4	4	3	5	9	7	7	7	7	6	5	5	12	11	10	13	16	25	19	17	26	46	40	33	14
28	14	10	7	7	8	7	5	5	6	5	5	4	6	12	9	10	17	16	14	9	5	4	4	5	8
29	5	6	7	7	6	6	5	6	6	5	5	4	4	5	3	4	4	4	3	4	4	5	5	7	5
30	6	6	7	7	6	6	6	7	6	5	5	3	4	4	4	4	3	3	3	3	6	3	4	5	5
31	4	4	4	4	4	4	5	4	6	5	5	M	7	14	12	12	8	5	5	4	5	5	4	2	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		
3	1	2	1	6	8	14	18	0	-	46	0	-	14	2	100	0

NOTES:

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

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

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	2	5	3	2	2	2	1
3	0	0	3	5	2	1	5	7	6	11	10	7	7	6	3	5	6	7	9	3	6	5	2	4	5
4	0	0	0	1	1	1	3	11	12	10	8	5	4	3	1	3	6	12	9	8	5	2	0	2	4
5	0	2	1	1	0	1	2	3	3	5	3	2	2	4	5	9	8	9	8	10	10	5	1	8	4
6	7	6	5	3	3	4	8	15	18	16	13	13	10	12	13	20	30	38	30	15	14	15	14	7	14
7	6	4	5	4	3	4	5	9	12	13	12	10	8	11	13	9	6	8	6	8	7	5	6	9	8
8	8	M	7	6	6	6	10	16	21	16	17	13	16	17	24	12	6	8	8	8	7	3	4	8	11
9	3	2	3	3	4	5	11	14	16	13	11	10	8	8	10	12	10	7	8	6	5	8	7	8	8
10	6	6	6	7	7	7	9	14	16	14	13	12	12	12	11	18	16	13	12	31	12	12	10	9	12
11	5	3	3	3	3	4	7	11	15	13	10	9	7	5	8	17	14	13	29	29	10	7	8	8	10
12	8	5	2	4	3	5	9	23	37	37	15	13	19	22	21	26	21	35	19	27	44	50	27	35	21
13	27	23	23	19	22	28	27	36	42	44	36	31	24	26	28	21	33	44	43	34	30	39	32	27	31
14	25	21	22	18	14	15	19	30	36	28	27	29	30	31	28	28	34	38	45	41	38	36	30	28	29
15	19	17	15	11	11	10	13	18	17	15	11	10	8	8	7	6	7	4	3	4	5	4	4	3	10
16	2	2	2	3	3	3	5	7	8	8	7	7	7	7	12	10	12	18	19	19	18	14	11	14	9
17	8	7	5	4	4	4	6	8	13	13	13	12	12	11	15	18	22	25	25	21	20	10	19	46	14
18	36	19	16	19	18	18	23	32	35	37	36	33	15	14	25	39	43	48	60	47	51	36	34	30	32
19	35	35	29	20	17	19	28	35	34	44	40	34	40	42	43	38	39	45	60	55	37	30	30	40	36
20	37	25	19	18	16	20	31	40	50	45	35	48	39	31	34	37	45	51	51	43	30	26	28	28	34
21	28	26	25	19	27	20	26	34	34	38	39	31	28	27	34	32	36	38	41	41	40	31	32	31	32
22	23	M	14	15	15	17	17	22	30	34	29	27	31	24	20	30	33	38	33	31	36	33	24	25	26
23	20	18	12	11	8	9	17	30	44	53	64	50	22	19	41	55	69	52	44	33	26	28	32	27	33
24	22	18	14	9	8	8	11	19	25	29	19	18	26	35	24	40	39	45	50	40	23	19	19	16	24
25	12	13	10	8	8	9	13	24	22	21	19	22	19	22	21	21	27	30	39	35	37	27	21	15	21
26	16	11	10	10	8	10	19	33	41	45	50	41	33	30	28	52	30	29	35	71	90	88	91	56	39
27	43	34	50	53	46	17	21	33	49	57	47	45	57	35	34	30	42	80	84	93	108	134	150	148	62
28	141	87	27	26	18	14	15	17	16	24	28	31	33	42	38	38	50	48	48	76	72	68	31	31	42
29	34	30	17	14	14	15	15	24	32	31	31	29	29	26	25	23	32	39	40	44	33	28	26	24	27
30	21	15	13	14	13	13	20	36	41	44	37	20	22	24	27	34	41	59	69	58	37	27	57	67	34
31	42	21	16	13	16	16	24	38	49	39	28	M	42	58	48	42	36	47	50	56	42	35	37	20	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		
16	17	22	17	43	51	69	89	0	-	150	0	-	62	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:OCTOBER

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	2	2	2	2	3	5	3	2	2	1	3	2	2	3	2	2	2	1	2	3	2	2	2	2	2
2	2	0	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	1	2	1	1	4	3	2	2
3	2	2	4	3	2	2	3	3	3	3	2	2	2	2	4	4	3	2	2	3	9	6	6	4	3
4	1	1	1	2	2	2	3	3	3	1	1	0	1	1	1	1	1	1	0	0	1	1	0	1	1
5	0	1	0	1	1	0	0	1	1	1	1	0	1	0	1	2	1	0	1	0	1	1	2	3	1
6	2	4	3	2	2	2	2	2	2	2	3	2	3	3	2	4	6	4	4	5	5	6	6	5	3
7	5	4	3	3	3	3	3	3	4	4	5	4	4	5	5	6	4	4	2	2	2	2	2	2	4
8	2	3	3	3	3	4	5	6	5	4	4	4	6	7	5	6	8	8	4	4	3	3	3	3	4
9	2	2	2	2	3	3	3	3	3	2	2	3	4	4	4	3	3	2	2	3	3	3	3	3	3
10	3	3	3	4	4	3	4	5	5	4	4	3	3	4	5	6	5	2	3	6	3	3	2	2	4
11	3	2	1	2	2	2	3	3	4	3	2	3	2	3	4	M	M	1	3	3	3	2	2	3	3
12	3	3	3	4	4	4	4	4	6	5	5	4	4	4	5	7	2	5	5	5	5	5	5	3	4
13	3	3	3	2	3	3	3	3	5	4	4	3	3	3	3	3	3	4	4	4	4	4	3	3	3
14	3	3	3	3	3	3	3	3	3	3	3	4	4	5	5	5	4	4	3	4	2	3	3	1	3
15	1	1	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	1	1	1	1	0	0	2	2
16	2	2	2	2	3	3	2	2	2	2	2	3	2	2	2	2	2	2	2	1	2	1	1	1	2
17	1	2	1	2	2	1	2	2	1	2	2	3	1	2	3	3	2	3	2	2	2	2	2	3	2
18	2	2	2	1	1	2	2	2	5	3	8	2	1	1	1	3	2	2	2	3	2	1	2	3	2
19	3	3	3	3	4	3	3	2	4	M	M	M	M	M	M	M	26	10	5	5	5	4	5	5	5
20	6	6	7	7	8	8	8	8	10	10	9	9	12	13	14	12	10	11	10	10	10	10	10	10	10
21	11	10	9	10	10	10	11	12	11	12	19	11	11	14	17	13	12	12	11	12	12	12	12	12	12
22	13	13	13	13	15	13	12	13	13	12	12	13	20	19	15	20	14	15	13	15	15	14	14	14	14
23	14	13	14	14	14	14	14	14	15	12	13	12	14	14	15	15	14	14	13	13	13	14	13	12	14
24	12	13	12	11	12	12	12	12	13	14	14	14	14	13	13	13	13	13	14	14	13	13	13	13	13
25	13	12	12	10	10	11	11	11	12	12	13	13	13	12	13	13	13	12	12	12	12	12	11	12	12
26	11	12	12	12	12	12	11	12	13	13	14	15	15	15	13	13	13	13	14	14	13	14	14	14	13
27	14	13	14	15	18	17	17	17	17	16	15	19	32	23	24	28	30	28	45	39	41	52	40	38	26
28	25	19	18	18	18	18	16	16	17	15	15	16	21	22	25	25	21	28	24	28	44	20	16	16	21
29	16	17	17	18	18	18	17	17	17	17	16	16	14	14	14	14	15	14	15	15	15	15	15	15	16
30	15	15	15	14	15	14	15	15	15	15	14	13	13	13	12	13	15	14	15	15	16	16	15	15	14
31	15	16	16	16	13	15	17	18	17	17	17	17	28	24	23	17	16	15	14	14	15	15	15	14	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		
5	4	8	4	16	18	25	31	0	-	52	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:OCTOBER

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
3	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
4	0	0	0	0	0	0	2	0	2	1	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	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	2	2	5	5	4	6	6	5	3	1	4	8	9	5	8	4	4	3	1	4
7	0	0	0	0	0	1	1	1	1	4	6	3	0	1	2	2	0	1	0	0	0	0	0	0	1
8	0	0	2	3	1	3	6	9	7	7	4	6	4	5	3	2	4	7	1	1	0	0	0	0	3
9	0	0	0	0	0	3	7	6	6	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0	1
10	0	M	1	3	2	4	5	6	5	3	4	1	1	0	2	5	2	1	4	7	1	5	0	0	3
11	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	M	M	8	9	8	5	5	5	1	2
12	0	0	0	0	0	4	10	16	20	12	5	3	9	4	1	6	4	5	1	0	6	21	19	21	7
13	16	11	9	8	5	12	17	24	27	30	31	25	20	16	14	17	22	26	20	20	15	24	25	20	19
14	14	11	7	6	5	9	9	15	18	17	20	16	13	15	14	16	17	28	27	25	16	12	12	10	15
15	9	4	1	0	0	0	1	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	0
17	0	0	0	0	0	0	0	0	0	1	0	1	1	4	7	10	2	1	6	6	13	11	19	3	3
18	19	15	10	2	1	3	14	21	24	30	22	4	1	2	12	29	35	33	36	42	39	28	27	24	20
19	14	17	23	15	14	10	10	24	32	M	M	M	M	M	M	M	35	44	51	44	36	27	22	19	26
20	19	20	8	2	2	5	14	24	39	35	29	30	32	24	20	27	22	28	35	26	19	13	12	9	21
21	12	6	5	8	2	4	14	19	16	24	39	29	24	20	24	22	21	21	22	29	24	15	13	13	18
22	14	11	5	2	6	7	12	22	20	23	18	20	27	20	9	34	19	22	31	32	26	24	20	20	19
23	12	9	7	5	5	6	14	30	40	40	23	11	6	3	8	12	8	4	7	11	20	9	12	12	13
24	14	M	5	1	0	2	8	15	14	3	0	1	1	0	0	0	0	4	21	21	15	12	1	1	6
25	0	0	0	0	0	1	8	13	5	4	0	0	0	0	1	2	4	11	8	10	5	9	5	4	4
26	8	5	4	1	0	1	5	15	11	12	8	9	8	5	1	1	2	4	5	7	19	14	10	16	7
27	8	12	11	24	33	15	13	26	39	41	25	29	45	19	25	32	43	41	48	58	110	102	80	89	40
28	83	63	25	15	9	8	9	9	19	17	13	20	51	32	46	31	23	38	21	21	70	55	44	23	31
29	23	16	10	7	5	6	9	14	18	26	26	26	14	7	12	15	19	27	28	29	19	21	16	22	17
30	13	8	7	3	3	7	15	26	27	18	13	7	8	6	6	11	6	6	28	30	26	30	27	3	14
31	11	9	6	4	3	5	13	18	20	16	11	10	42	37	22	3	1	3	14	27	26	11	16	7	14

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
9	5	10	5	27	33	44	57	0	-	110	0	-	40	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:OCTOBER

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

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

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

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	7	6	4	5	6	9	9	7	9	8	3	3	3	4	3	4	6	6	6	6	8	9	7	5	6
2	7	8	5	10	7	6	10	6	4	5	3	3	2	2	3	2	3	4	7	5	6	7	8	6	5
3	4	4	8	11	5	6	8	7	6	7	5	4	6	5	7	3	3	5	15	19	10	7	12	7	
4	9	M	5	7	11	10	11	11	10	16	10	18	7	9	4	4	6	9	16	17	27	14	5	5	10
5	8	23	20	13	10	7	11	17	7	10	8	7	M	14	15	7	9	6	11	21	16	8	5	9	11
6	11	14	12	17	10	12	10	12	12	10	11	12	14	13	7	5	9	15	16	20	19	25	16	11	13
7	9	14	22	13	7	8	8	8	16	13	11	14	18	13	8	7	5	6	8	6	5	7	20	35	12
8	32	28	18	13	11	24	39	23	27	25	30	23	15	11	12	11	12	17	16	11	14	8	19	19	19
9	11	8	8	9	19	46	24	24	52	21	10	8	8	16	15	23	49	50	42	54	49	40	60	28	28
10	53	45	24	34	31	18	22	19	22	21	10	28	19	18	36	30	37	11	13	20	22	19	28	11	25
11	12	13	18	32	31	33	37	21	27	29	29	21	14	10	6	9	7	7	17	14	14	13	19	24	19
12	19	37	22	11	11	14	24	43	47	54	53	25	27	38	18	12	12	18	26	17	19	79	44	28	29
13	31	27	22	20	21	27	34	35	34	38	39	35	37	43	45	45	51	49	69	63	55	50	47	45	40
14	38	34	32	28	33	34	31	35	45	44	42	46	38	41	47	44	51	44	51	49	46	42	36	36	40
15	39	31	28	25	22	22	22	25	24	20	16	12	12	13	11	16	5	2	0	1	2	1	0	5	15
16	3	3	2	3	5	7	10	7	13	6	6	5	5	6	35	37	52	32	18	17	15	16	19	70	16
17	43	48	47	48	30	11	12	14	19	14	14	13	10	11	22	18	14	16	57	73	70	63	56	44	32
18	37	M	28	25	32	32	30	27	31	34	38	43	38	31	26	35	29	27	27	34	29	29	30	33	32
19	32	26	24	22	18	20	24	28	32	37	38	41	54	60	51	46	43	43	50	34	29	33	32	26	35
20	20	20	20	17	19	23	30	34	41	47	48	49	48	55	47	41	40	38	37	37	29	25	21	23	34
21	22	21	19	18	18	23	26	29	33	37	34	27	27	27	29	31	40	42	36	55	42	27	24	21	30
22	22	21	21	17	16	22	25	32	34	30	35	27	30	32	31	32	35	39	39	39	39	40	39	38	31
23	32	33	27	24	20	25	28	36	50	50	60	M	55	47	50	37	23	15	11	17	14	15	15	17	30
24	15	19	12	16	17	39	41	56	67	52	17	21	16	11	12	13	10	14	20	29	29	17	18	24	24
25	20	22	23	14	11	32	40	41	27	20	18	16	9	10	8	9	13	9	20	34	22	16	21	20	20
26	14	15	14	13	16	34	41	44	70	52	37	16	15	17	14	16	19	17	18	20	21	21	22	13	24
27	19	63	58	75	45	40	40	43	42	58	64	56	42	24	19	26	17	25	28	71	111	57	171	176	57
28	162	71	30	28	25	26	37	35	39	52	37	37	27	31	45	34	39	36	72	117	127	112	107	66	58
29	49	33	24	28	25	29	29	35	45	39	35	40	41	39	44	41	46	44	59	50	46	71	48	45	41
30	47	45	32	18	19	22	27	34	41	56	49	41	42	42	46	39	39	41	23	32	80	41	79	65	42
31	55	66	46	43	44	47	46	46	55	44	43	43	43	38	30	23	22	21	20	27	27	29	22	36	38

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		
20	22	27	22	49	56	71	96	0	-	176	5	-	58	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: NOVEMBER

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

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	4	M	4	4	3	4	10	33	39	38	35	32	27	28	26	19	12	18	7	9	14	18	11	24	18
2	20	20	14	11	13	19	24	42	72	73	67	44	25	35	36	34	38	76	104	79	56	46	30	19	42
3	21	20	20	19	20	20	41	56	70	65	65	61	51	44	51	57	59	45	41	32	22	24	24	27	40
4	22	15	15	17	17	15	24	38	45	53	51	39	38	32	48	53	48	61	58	51	57	47	33	22	37
5	18	13	17	17	20	19	26	38	38	34	32	29	37	32	40	45	56	61	56	45	38	32	32	18	33
6	17	14	17	24	19	15	25	41	49	47	46	37	37	38	41	53	56	56	56	49	45	39	56	51	39
7	29	19	22	20	16	15	13	33	57	63	67	44	37	41	63	83	101	115	74	69	57	37	46	26	48
8	38	20	16	14	13	12	18	28	35	43	40	36	34	33	36	56	89	73	66	39	14	11	8	8	33
9	6	7	6	6	6	6	10	17	30	32	39	29	28	25	29	27	32	38	50	36	22	15	12	10	22
10	8	9	7	7	6	6	9	21	28	32	20	26	36	38	29	37	31	79	121	66	22	25	19	13	29
11	12	7	5	5	4	6	10	18	33	37	21	13	15	17	27	27	31	28	20	12	10	14	14	11	17
12	12	9	13	8	8	8	10	17	26	17	17	26	24	30	22	36	22	18	12	10	9	12	10	5	16
13	4	3	1	1	1	0	3	9	14	15	23	20	15	24	27	38	41	47	35	21	15	6	4	6	16
14	7	7	3	1	2	4	5	9	10	12	11	8	17	14	13	9	21	10	8	4	8	10	5	4	8
15	4	M	1	1	0	3	3	5	13	20	19	14	18	13	19	18	31	25	17	12	16	13	16	1	12
16	2	3	2	2	1	2	5	10	14	10	9	10	13	18	10	21	26	24	25	13	13	7	5	11	11
17	7	1	3	5	3	3	4	11	28	38	39	33	17	15	27	34	46	65	70	77	73	69	59	57	33
18	66	52	44	27	0	8	10	11	30	53	42	52	46	36	44	49	61	57	65	33	5	3	5	18	34
19	16	7	2	2	2	4	6	11	16	17	20	18	20	21	26	27	28	37	34	38	35	24	24	20	19
20	15	12	10	11	7	8	21	33	36	38	36	36	32	30	34	35	46	50	51	51	50	47	40	28	32
21	26	20	12	8	6	8	21	29	31	33	28	26	22	27	38	45	54	80	55	56	79	94	79	65	39
22	65	50	38	40	32	22	31	36	31	28	27	32	40	39	37	45	52	63	52	66	55	44	37	32	41
23	29	15	16	11	8	14	18	32	33	33	34	29	24	25	26	43	53	60	62	77	84	79	63	47	38
24	30	28	22	13	12	11	18	36	47	52	49	48	39	29	34	45	42	59	89	100	88	76	63	59	45
25	52	40	25	19	10	9	10	21	40	48	56	57	57	54	60	72	76	82	83	77	72	63	55	48	49
26	51	30	26	33	44	46	54	44	14	27	32	28	26	30	39	47	65	71	79	88	58	87	85	34	47
27	19	13	8	11	11	7	8	18	22	23	20	18	15	27	40	47	50	28	23	24	10	7	7	5	19
28	3	2	0	0	0	0	1	9	15	31	21	21	18	22	18	16	34	69	75	47	37	45	35	31	23
29	23	M	8	4	2	5	6	10	12	6	6	7	9	7	12	11	15	21	31	31	18	9	3	4	11
30	1	4	2	4	2	0	2	12	14	13	13	14	25	29	37	42	58	55	45	24	20	19	17	16	20

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		
21	25	29	25	59	72	83	89	0	-	121	8	-	49	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: NOVEMBER

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

NOTES:

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION  
POLLUTANT : NITROGEN DIOXIDE

MONTH: NOVEMBER

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	M	2	3	2	3	7	7	9	8	12	9	9	10	8	20	17	8	2	2	2	5	4	8	7
2	7	6	4	3	3	6	15	24	32	48	31	41	9	11	10	9	9	5	4	4	4	7	9	6	13
3	5	7	7	4	5	7	5	9	13	15	10	10	M	9	12	14	13	12	10	8	9	5	4	4	9
4	5	3	4	5	6	6	4	6	8	9	11	8	7	8	8	8	8	7	11	12	9	7	6	6	7
5	5	3	4	7	10	9	8	9	11	10	10	10	11	12	14	15	17	16	13	8	5	8	8	5	10
6	4	3	6	7	8	8	11	16	17	13	10	8	7	9	8	8	11	10	6	8	12	9	6	7	9
7	8	5	2	3	2	3	1	4	3	3	3	4	5	7	31	54	80	46	14	10	8	6	3	3	13
8	3	3	1	1	0	1	4	4	3	4	5	8	8	5	5	8	6	6	10	6	4	1	2	2	4
9	0	0	0	0	0	0	1	3	1	3	4	4	5	3	5	8	6	4	1	0	2	1	0	1	2
10	0	0	0	0	0	0	0	0	2	0	0	0	1	4	4	8	15	19	15	9	6	5	4	1	4
11	0	0	0	0	0	1	4	9	5	4	1	0	0	2	2	5	12	7	6	4	4	3	2	3	3
12	4	3	3	1	1	0	1	5	5	6	6	6	4	7	5	6	4	6	4	0	0	0	0	0	3
13	0	0	0	0	0	0	0	0	0	1	2	1	1	1	3	4	3	5	4	1	4	1	2	0	1
14	2	2	1	0	5	4	1	5	2	3	3	1	1	0	2	4	5	4	2	2	5	5	4	1	3
15	0	M	1	0	0	0	0	3	1	0	1	1	0	0	1	1	1	3	0	0	1	1	2	1	1
16	2	1	0	0	0	0	0	1	2	2	2	2	0	0	1	4	4	7	4	5	2	2	1	1	2
17	2	1	2	0	0	1	0	1	5	7	6	5	6	6	6	8	7	5	0	1	1	8	15	12	4
18	26	33	41	41	36	52	46	46	39	39	45	48	31	14	43	49	48	37	40	13	1	0	0	2	32
19	1	0	1	0	0	0	0	1	3	4	4	5	5	6	8	7	6	8	12	14	15	12	10	8	5
20	5	5	6	11	8	7	9	11	22	21	13	14	24	28	28	31	35	33	18	29	12	13	9	6	17
21	6	7	6	5	4	4	8	10	5	3	3	4	6	7	10	13	16	14	11	11	28	55	48	37	13
22	39	31	30	21	20	21	21	26	24	28	32	31	30	41	48	47	48	46	51	44	35	24	26	20	33
23	17	13	10	5	6	4	2	6	13	20	25	19	18	13	16	15	12	16	28	35	17	23	15	16	15
24	12	8	7	5	5	6	8	13	21	22	19	9	7	8	14	9	12	21	39	57	45	45	27	10	18
25	11	9	8	8	7	6	7	10	13	17	30	34	39	47	39	36	21	30	38	34	40	53	48	34	26
26	34	28	31	28	46	40	42	46	46	42	44	43	40	42	46	46	51	67	59	57	57	62	11	6	42
27	7	6	5	5	4	5	5	8	6	5	3	M	0	0	3	3	4	2	0	2	0	0	0	1	3
28	0	0	0	0	1	1	2	4	3	2	0	0	0	0	1	6	11	4	4	7	7	7	6	5	3
29	6	M	2	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	1
30	0	2	5	5	0	0	3	7	4	2	2	3	1	0	4	5	6	3	2	0	1	0	1	0	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		
7	5	10	5	32	44	48	55	0	-	80	1	-	42	3	99	0

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

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

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

MONTHLY STATISTICS:

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

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

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

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	6	M	6	5	5	4	6	12	15	13	12	14	14	14	13	12	13	13	13	9	9	11	9	9	10
2	6	7	6	5	5	7	8	11	26	31	20	27	51	22	14	16	20	25	29	33	26	22	14	10	18
3	9	8	7	7	6	6	10	16	14	14	14	14	14	13	14	12	16	17	14	14	9	9	7	9	11
4	8	6	6	6	5	4	6	8	9	12	12	12	10	10	10	11	13	14	15	13	13	14	12	8	10
5	6	5	5	5	5	5	5	7	8	8	8	8	8	11	9	11	12	12	13	11	9	9	9	8	8
6	5	4	5	6	5	4	5	8	11	15	10	9	9	10	15	15	13	13	15	12	10	10	12	14	10
7	11	8	7	13	11	7	6	13	16	17	19	21	22	24	25	25	22	25	25	19	16	14	16	16	17
8	15	12	10	9	6	6	6	9	11	14	15	17	17	19	24	35	26	18	18	12	8	5	5	6	13
9	4	3	2	2	2	2	4	8	7	8	8	7	8	8	8	11	13	14	15	13	11	8	6	7	7
10	5	4	3	2	2	2	5	8	12	11	9	7	10	9	19	14	19	25	26	21	15	10	7	6	10
11	5	3	3	1	1	10	9	7	7	8	7	5	4	5	7	11	11	10	9	6	4	5	6	6	6
12	5	4	4	2	2	2	3	3	6	6	6	6	8	13	9	10	7	6	5	3	3	2	3	4	5
13	1	1	0	0	0	0	1	2	3	4	5	5	3	4	6	10	8	9	9	7	5	3	1	5	4
14	3	1	1	0	0	1	3	6	6	6	6	5	8	7	6	4	7	6	5	4	4	5	3	4	4
15	2	M	3	1	0	1	3	4	6	7	5	4	5	6	7	6	8	9	6	4	5	5	8	5	5
16	3	3	3	2	2	2	4	6	6	7	7	7	7	9	7	8	14	13	11	9	7	8	8	8	7
17	8	5	3	2	1	1	4	8	10	13	10	8	12	14	12	15	13	9	13	13	10	13	12	14	9
18	12	9	9	8	8	9	10	12	16	28	31	25	23	26	18	18	M	19	17	16	5	2	2	5	14
19	4	4	3	3	2	3	4	4	4	5	5	6	6	5	5	6	5	5	6	7	6	5	7	5	5
20	3	2	1	1	1	1	2	3	4	5	6	7	8	8	8	8	6	7	7	7	6	6	5	6	5
21	5	6	6	4	2	4	3	4	4	6	6	7	12	10	9	12	13	12	11	9	11	11	12	11	8
22	10	9	9	11	9	9	8	8	10	13	12	15	19	19	16	15	18	19	16	12	10	9	7	7	12
23	5	4	3	2	1	1	4	6	8	8	9	9	10	9	9	9	10	9	8	10	13	12	11	11	8
24	8	7	6	5	4	3	4	6	9	10	16	15	14	14	13	13	12	12	13	13	13	13	13	12	10
25	11	8	6	5	4	3	3	6	8	9	11	13	16	14	16	16	14	14	13	12	11	10	9	11	10
26	9	8	9	10	10	10	8	9	12	12	13	16	19	22	22	20	23	18	14	13	13	12	11	11	14
27	8	5	5	5	4	4	4	5	5	7	8	7	7	8	7	10	11	10	7	6	5	4	4	4	6
28	4	2	1	2	1	2	3	6	8	13	11	11	9	7	8	10	11	13	15	13	12	9	10	9	8
29	9	M	10	7	5	4	5	5	5	3	3	4	3	3	4	4	7	10	11	8	7	7	5	5	6
30	1	1	1	2	2	1	3	5	4	5	4	5	5	6	8	14	17	15	14	10	6	5	4	3	6

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL		
7	8	9	8	16	19	25	27	0	-	51	4	-	18	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: NOVEMBER

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	2	2	1	1	2	7	5	3	3	1	1	2	8	3	2	3	1	2	2	1	1	1	2
2	0	0	0	0	1	1	2	4	8	14	3	7	13	20	7	4	2	2	4	2	3	2	3	1	4
3	1	1	1	1	1	6	6	7	7	5	4	5	5	5	4	4	4	3	3	2	2	1	1	1	4
4	2	2	2	3	5	6	7	7	8	7	6	5	5	6	5	4	5	5	5	5	4	4	5	1	5
5	1	2	3	3	3	3	3	3	4	3	4	4	4	4	2	2	2	2	3	2	2	1	1	3	3
6	2	1	1	3	4	4	4	4	4	4	3	2	1	2	2	1	1	2	1	2	3	0	1	1	2
7	0	0	0	0	0	1	0	2	6	8	10	5	2	10	7	5	4	5	2	1	1	1	1	2	3
8	1	1	2	1	1	1	0	1	2	8	4	4	15	20	9	19	16	8	12	3	2	1	0	1	6
9	0	0	1	1	1	1	1	1	2	1	0	2	2	1	2	3	2	2	2	1	1	2	2	1	1
10	0	0	0	0	0	0	0	1	0	2	2	1	1	9	21	9	2	10	21	11	6	6	4	2	5
11	1	2	2	1	1	14	13	5	5	5	2	0	1	2	2	2	3	2	1	1	1	1	2	1	3
12	0	1	1	1	1	1	0	1	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
13	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
14	0	1	1	1	0	1	1	2	2	2	1	2	2	1	1	1	2	1	1	1	2	3	3	1	1
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
16	0	1	0	1	1	1	1	1	0	1	1	0	1	2	2	1	2	2	0	1	0	1	1	5	1
17	1	5	6	1	0	0	0	4	9	37	9	6	2	5	6	5	3	1	0	1	2	2	2	3	5
18	6	12	14	16	18	13	18	17	13	32	78	27	7	14	3	4	3	2	2	3	1	0	0	0	13
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
20	0	1	1	1	1	0	1	1	1	1	1	1	2	2	1	1	0	0	1	1	1	0	1	1	1
21	1	0	0	0	1	2	1	1	2	3	2	1	0	3	3	5	4	2	0	0	1	2	5	3	2
22	1	2	1	1	2	1	0	2	4	7	2	2	2	2	4	3	2	3	3	1	0	0	0	1	2
23	1	1	0	1	1	2	2	3	2	3	3	2	3	3	3	3	3	3	4	5	7	4	5	3	3
24	4	2	2	3	2	3	3	4	4	5	4	3	4	4	5	3	2	1	1	1	1	0	0	2	3
25	1	2	2	2	1	1	2	7	5	11	5	6	4	2	1	1	1	1	2	1	1	1	1	1	3
26	1	2	8	8	2	4	4	10	11	8	8	6	6	8	6	14	6	1	1	1	3	1	2	5	
27	1	1	1	0	1	1	1	1	3	2	2	2	1	1	1	M	9	7	5	6	7	6	5	2	3
28	2	2	2	2	1	3	3	3	4	4	5	4	3	2	5	9	4	8	18	8	11	6	6	6	5
29	22	26	21	11	7	9	7	3	2	2	0	0	0	1	0	1	1	1	0	0	0	0	0	0	5
30	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	2	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	3	2	7	10	18	21	0	-	78	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  
MONTH: NOVEMBER

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	8	8	7	7	8	11	27	35	53	46	35	33	34	27	26	25	23	34	23	24	27	27	21	24
2	24	19	23	19	18	17	52	83	80	88	68	57	47	56	26	31	44	58	82	80	60	33	36	21	47
3	20	13	22	26	17	15	22	47	49	49	42	40	35	36	34	34	36	45	36	29	22	19	17	17	30
4	16	13	13	15	16	15	23	33	34	38	48	36	28	40	36	48	42	50	42	33	22	25	21	15	29
5	15	M	17	18	20	19	22	32	36	37	27	20	25	30	25	31	40	39	38	28	21	20	20	15	26
6	14	12	24	25	19	13	25	43	69	46	31	25	22	33	55	44	48	35	41	31	35	27	48	43	34
7	43	27	38	51	39	15	20	59	64	68	68	44	23	79	94	105	101	133	79	43	45	54	53	54	58
8	53	41	56	35	26	25	33	35	49	48	50	47	51	58	54	78	72	58	69	44	22	14	11	11	43
9	9	8	7	7	6	7	10	15	23	28	23	26	27	23	23	35	44	40	30	30	27	19	17	13	21
10	9	8	7	7	5	6	11	24	16	26	26	22	26	23	30	35	22	45	75	79	38	29	26	24	26
11	24	16	12	8	12	69	61	32	27	33	22	11	14	18	20	23	34	30	25	23	19	15	14	19	24
12	17	14	16	12	10	10	11	15	20	20	21	24	31	44	37	48	33	24	19	16	13	13	11	11	20
13	9	7	6	6	5	5	6	10	15	18	21	27	22	31	42	57	61	55	46	34	23	19	15	17	23
14	13	11	8	8	10	13	16	19	25	24	23	16	24	20	23	17	30	28	27	18	19	17	15	11	18
15	10	8	6	6	5	9	11	14	21	21	21	23	22	23	28	29	35	36	32	22	20	18	22	9	19
16	7	8	8	6	5	7	10	17	23	22	19	18	14	19	21	26	45	43	50	26	27	25	24	52	22
17	28	38	35	12	11	10	17	35	47	62	30	24	23	23	24	24	27	33	49	60	58	72	75	73	37
18	50	57	53	57	57	54	65	64	56	73	73	68	44	52	43	58	64	70	72	39	16	10	12	19	51
19	19	M	8	7	7	8	10	15	17	13	16	18	21	20	23	22	22	24	22	29	28	28	25	21	18
20	22	17	15	15	15	23	36	41	38	40	37	35	32	32	35	39	46	52	56	52	50	48	45	41	36
21	41	29	13	11	14	35	36	38	39	41	39	29	23	41	50	66	74	92	69	70	94	87	87	71	50
22	68	55	48	55	44	43	41	43	41	35	29	36	45	41	44	45	53	63	71	66	54	45	33	28	47
23	28	26	16	16	16	18	33	51	45	39	40	43	39	33	32	43	52	61	81	78	81	67	48	39	43
24	40	34	26	18	19	19	26	47	55	60	50	44	44	39	48	52	49	80	91	97	91	72	65	63	51
25	52	44	35	32	23	17	22	58	47	54	56	59	52	56	61	67	74	86	86	82	71	61	63	65	55
26	60	59	55	56	56	56	56	54	50	46	45	44	42	47	51	47	71	84	73	87	80	97	86	73	61
27	36	43	47	38	34	31	17	21	24	26	20	15	17	20	32	M	42	52	39	41	32	15	19	13	29
28	12	10	10	9	8	8	12	22	24	21	26	24	19	25	32	48	51	92	114	101	70	45	54	58	37
29	97	102	87	51	36	37	27	17	16	17	13	13	16	18	21	20	16	20	22	21	8	10	13	13	30
30	11	10	8	11	12	8	17	25	28	21	21	24	26	21	28	45	55	40	37	26	20	17	15	21	23

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
28	28	34	28	65	78	90	97	5	-	133	18	-	61	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: NOVEMBER

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	14	13	13	13	13	14	14	15	15	14	14	16	24	18	15	14	14	14	12	10	14	14	13	12	14
2	13	15	14	15	16	17	20	16	19	31	25	61	40	15	15	14	15	17	15	16	15	15	15	15	20
3	15	14	15	15	16	18	20	21	23	20	20	19	18	17	17	18	18	17	15	14	15	14	14	14	17
4	14	14	14	15	18	19	20	20	20	19	19	19	18	19	18	17	17	17	17	17	17	17	15	16	17
5	15	14	15	19	18	19	18	19	19	19	17	18	18	21	20	17	16	16	16	16	16	15	15	15	17
6	15	15	14	16	17	17	18	18	18	16	15	15	15	15	15	14	14	15	15	16	16	14	13	13	15
7	14	14	13	14	15	16	16	19	18	24	23	17	16	23	19	19	18	23	17	16	16	14	15	16	17
8	17	15	14	14	14	14	14	14	15	19	14	13	13	20	22	28	20	15	14	15	14	13	13	14	16
9	13	13	13	14	14	14	14	14	15	14	14	14	13	14	15	15	15	14	14	14	15	15	14	14	14
10	14	15	14	14	14	14	14	14	14	14	14	14	15	15	17	15	50	26	25	19	20	19	18	16	18
11	16	15	15	15	15	16	16	17	19	19	15	15	14	14	15	15	16	15	15	14	14	15	14	14	15
12	16	16	16	16	16	14	15	17	17	17	15	14	13	13	13	13	13	13	13	13	13	13	13	13	14
13	13	13	13	12	13	13	13	13	13	13	14	13	13	13	12	17	14	13	13	13	12	12	13	13	13
14	13	13	13	13	13	13	13	13	13	13	14	14	15	14	13	13	14	12	13	13	14	16	16	15	14
15	14	14	15	13	13	14	13	13	12	12	12	13	13	15	13	13	13	13	13	13	14	14	15	13	13
16	15	15	15	14	14	13	13	13	13	13	14	15	14	15	14	14	14	14	14	15	14	14	14	14	14
17	14	13	14	14	14	13	14	13	14	15	18	16	19	19	18	17	15	15	15	15	15	17	14	37	16
18	34	28	32	63	37	57	34	35	44	69	87	64	34	37	45	20	16	16	16	15	13	12	12	13	35
19	13	13	12	13	13	13	12	13	12	12	13	13	14	14	13	13	13	14	13	14	15	15	15	15	13
20	15	15	15	15	15	15	15	14	16	14	14	14	14	15	15	14	14	14	15	16	16	14	13	14	15
21	15	14	13	14	14	13	13	15	15	14	14	13	13	17	28	21	20	15	13	14	14	15	16	17	15
22	17	17	16	17	17	16	16	17	21	19	19	M	1	5	7	7	5	5	4	4	3	2	2	1	10
23	0	1	2	1	0	2	2	1	4	3	3	3	3	4	4	3	4	3	4	5	6	4	3	7	3
24	8	7	7	7	6	7	8	9	10	10	10	8	7	8	5	7	6	5	5	5	5	5	7	3	7
25	3	4	4	4	4	3	3	4	4	11	10	7	7	6	5	5	5	4	4	3	5	3	3	2	5
26	3	2	12	12	6	5	6	11	16	12	12	12	8	12	11	9	18	14	8	10	8	8	M	5	10
27	4	4	4	3	4	4	4	4	4	3	4	4	3	4	4	5	5	4	3	3	3	2	3	M	4
28	5	4	5	5	5	6	6	6	6	5	5	4	5	5	4	5	5	5	5	6	6	5	M	6	5
29	7	6	8	18	7	7	6	7	6	5	4	5	5	5	5	5	6	5	5	4	5	4	M	M	6
30	4	4	5	5	3	3	3	2	2	2	2	3	3	3	3	3	4	3	3	3	2	3	M	2	3

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----									-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
11	14	13	14	19	20	34	45	0	-	87	3	-	35	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: NOVEMBER

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	0	0	0	0	0	1	6	12	16	18	9	21	33	13	0	0	0	0	3	15	16	9	6	15	8
2	14	16	10	5	7	11	32	39	69	76	70	78	54	4	1	0	1	14	25	12	22	21	13	7	25
3	6	3	3	15	16	19	26	45	48	51	54	45	25	20	19	28	31	6	6	3	1	0	1	4	20
4	2	4	1	6	14	7	14	28	28	26	21	20	12	21	15	8	14	27	27	23	17	9	3	4	15
5	2	0	2	7	7	9	9	16	18	14	10	6	11	22	29	21	32	26	17	5	5	3	5	2	12
6	4	1	5	10	8	7	17	31	36	19	17	11	14	14	16	25	31	32	23	19	22	17	34	23	18
7	8	M	14	39	20	8	11	44	58	62	61	30	20	63	72	78	94	103	83	45	43	27	25	34	45
8	41	24	10	4	4	5	10	13	17	31	8	7	11	20	32	28	23	14	4	2	0	0	0	0	13
9	0	0	0	0	0	0	2	5	6	3	6	6	5	3	1	3	4	6	5	2	5	0	0	0	3
10	0	0	0	0	0	0	3	10	10	4	2	1	4	0	7	12	62	33	24	17	10	5	0	1	9
11	2	0	0	0	0	1	3	8	17	9	2	0	1	2	9	10	8	10	7	1	0	3	4	2	4
12	1	0	1	1	0	1	4	7	7	7	6	7	6	4	7	7	5	3	0	0	0	0	1	0	3
13	0	0	0	0	0	0	0	2	1	1	5	5	3	8	12	44	27	22	21	7	2	0	0	0	7
14	1	0	0	0	0	1	0	2	0	0	0	0	2	1	0	0	1	0	0	0	1	0	1	0	0
15	0	0	0	0	0	0	0	0	1	0	0	2	5	4	6	5	7	8	3	0	0	1	0	0	2
16	0	0	0	0	0	0	0	3	3	2	2	5	2	2	0	0	6	7	9	0	3	0	2	17	3
17	9	6	1	4	1	2	8	19	10	3	1	0	1	2	0	4	0	1	3	2	9	19	6	29	6
18	42	51	50	65	56	57	52	53	48	58	62	57	55	43	64	55	60	62	68	27	0	0	0	6	45
19	9	0	0	0	0	0	1	2	7	11	9	8	10	9	12	13	13	20	25	24	25	18	14	14	10
20	7	6	8	10	6	6	15	30	34	35	37	37	36	34	36	43	43	46	54	51	50	48	41	36	31
21	38	M	8	5	4	6	16	23	22	17	20	16	15	21	36	52	72	38	23	22	51	88	86	77	33
22	72	60	36	49	45	38	37	36	34	29	25	M	36	32	33	37	48	54	54	51	42	36	34	23	41
23	20	13	15	7	3	6	9	24	33	27	34	32	23	21	28	29	34	42	49	60	73	62	59	44	31
24	34	17	19	9	9	10	18	29	37	43	46	42	22	17	13	31	15	30	82	91	74	71	60	57	37
25	45	35	19	12	5	4	13	18	26	42	48	52	50	54	50	60	80	84	84	75	70	65	56	43	45
26	51	41	50	47	46	48	50	49	44	39	37	35	32	38	40	43	72	83	82	95	100	94	M	38	55
27	15	7	4	2	5	2	0	6	5	4	1	1	3	5	17	10	10	3	3	3	0	1	0	M	5
28	0	0	0	0	0	0	1	3	7	8	9	6	11	9	6	13	3	19	10	11	10	13	M	19	7
29	21	12	11	32	0	1	6	3	2	0	0	0	0	0	0	1	3	8	5	9	4	1	M	M	5
30	0	0	0	1	0	0	0	0	1	0	0	0	4	3	4	11	10	7	6	0	1	0	M	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	
12	9	18	9	51	62	80	86	0	-	103	0	-	55	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: NOVEMBER

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

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	4	5	4	9	10	11	12	1	-	16	2	-	8	2	100	0

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

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

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	27	M	9	11	11	39	52	57	64	58	51	41	31	18	14	12	13	9	14	13	15	14	14	11	26
2	13	51	65	56	35	31	52	59	50	56	58	59	51	43	17	10	11	15	17	16	33	107	75	125	46
3	132	102	65	42	41	42	59	59	44	51	55	43	51	61	61	50	38	26	23	37	30	24	22	19	49
4	23	18	18	38	37	46	32	42	43	54	46	49	45	42	49	50	62	89	91	96	106	91	72	17	52
5	18	14	39	56	55	62	34	44	49	44	54	30	38	49	48	60	47	47	92	34	33	38	31	24	43
6	22	41	64	35	28	43	66	57	67	83	76	63	66	63	57	59	82	99	100	101	81	58	53	66	64
7	66	48	52	37	26	24	28	45	54	60	66	60	73	95	102	114	123	95	93	92	52	39	43	46	64
8	47	46	47	33	21	29	36	46	42	42	44	49	51	51	41	36	34	23	21	15	12	9	16	20	34
9	34	23	23	26	20	13	11	13	26	46	52	38	15	15	13	14	14	10	14	18	19	13	18	25	21
10	20	17	14	15	14	10	10	27	59	69	47	13	15	19	18	16	18	33	35	27	20	24	24	16	24
11	28	27	31	29	38	47	64	61	69	74	63	11	12	19	26	24	20	28	32	44	45	15	16	20	35
12	23	29	32	16	18	20	34	47	51	23	23	19	19	19	19	31	24	20	19	19	16	15	12	24	24
13	35	20	21	10	15	19	13	12	17	18	15	18	57	33	54	66	77	92	108	82	27	24	21	16	36
14	20	17	20	24	27	49	19	18	19	18	15	11	13	10	9	7	12	11	13	10	21	16	12	13	17
15	12	M	12	14	8	11	15	23	24	17	40	23	16	18	20	26	21	23	25	17	16	20	13	13	19
16	12	15	16	12	17	16	15	10	23	16	17	18	11	6	7	11	8	8	15	12	25	10	10	16	14
17	57	38	17	11	12	10	14	12	16	54	21	10	15	15	10	8	8	9	13	22	17	10	28	25	19
18	27	32	28	40	30	55	72	82	77	73	69	56	68	64	54	68	75	76	110	60	31	44	38	47	57
19	57	41	29	22	10	14	13	15	34	45	41	33	34	29	36	34	37	51	69	66	77	28	32	28	36
20	27	31	34	40	43	37	38	38	33	37	31	25	27	30	35	48	52	53	59	56	51	52	46	43	40
21	42	42	39	35	31	35	33	33	30	34	35	42	44	48	58	74	103	119	122	122	94	91	95	84	62
22	80	78	74	69	61	58	53	45	40	42	48	54	55	64	58	64	53	51	45	48	46	59	49	37	55
23	33	28	23	20	17	20	21	27	28	34	29	33	28	36	34	44	37	42	50	62	60	48	43	41	35
24	37	27	25	21	19	21	30	32	33	40	38	38	44	51	M	74	84	67	76	69	52	47	42	51	44
25	47	48	30	30	39	47	52	51	66	63	58	60	64	74	65	51	59	85	107	99	92	74	45	57	61
26	61	73	83	87	80	75	71	61	60	63	61	57	53	59	65	68	76	95	98	87	89	83	72	71	73
27	64	59	51	42	52	44	38	18	29	38	28	43	42	32	34	15	14	16	29	74	34	47	14	27	37
28	29	25	16	16	11	29	51	66	79	74	79	47	43	48	31	22	31	22	28	47	117	47	39	40	43
29	106	M	114	81	20	15	27	40	54	20	30	33	32	26	26	37	53	31	33	69	105	102	58	19	49
30	57	72	55	22	26	16	20	15	13	15	11	13	15	34	30	27	26	20	19	12	18	19	23	15	25

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
33	35	40	35	74	91	106	114	6	-	132	14	-	73	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: DECEMBER

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
3	4	4	4	9	10	12	15	0	-	32	1	-	11	2	98	0

NOTES:

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

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

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	19	18	17	15	11	9	14	21	23	28	37	M	36	29	26	26	58	36	29	39	50	54	50	37	30
2	38	34	26	17	15	10	16	25	25	30	23	19	15	20	35	43	51	70	64	55	33	22	11	30	30
3	26	18	16	21	28	39	36	31	31	28	9	5	15	18	20	56	49	37	70	60	98	145	118	65	43
4	55	33	18	15	14	11	24	32	37	49	58	53	45	45	38	49	57	53	72	72	58	50	54	40	43
5	39	24	25	17	14	13	16	27	27	23	19	28	29	30	32	39	42	47	37	38	37	38	28	19	29
6	15	13	8	5	3	2	6	15	24	25	28	22	26	27	38	37	39	26	13	13	14	11	6	10	18
7	4	4	3	1	1	2	9	20	35	47	49	37	50	58	66	73	75	61	63	69	59	38	34	22	37
8	20	7	4	2	2	3	9	18	22	25	30	32	31	30	32	30	37	52	53	42	34	21	23	27	24
9	31	19	17	21	20	20	29	38	68	88	73	77	55	68	81	67	59	58	48	39	27	24	22	14	44
10	13	23	23	34	28	25	25	45	51	43	58	48	60	60	55	65	103	128	91	100	92	73	64	49	57
11	49	48	16	12	13	17	15	21	38	33	30	36	27	27	22	22	20	25	19	25	22	21	17	15	25
12	13	9	8	9	9	10	20	36	44	51	49	52	51	49	56	61	38	30	25	22	19	14	11	9	29
13	6	M	5	4	4	4	4	11	15	21	27	32	22	23	20	18	17	18	17	11	10	7	6	7	13
14	4	2	2	0	2	3	3	12	8	12	30	20	28	24	46	35	62	64	30	24	13	10	9	15	19
15	11	5	6	5	5	5	6	9	15	21	21	21	21	28	36	45	65	75	63	103	111	83	72	60	37
16	52	48	44	38	36	32	29	28	26	24	23	21	23	21	22	28	31	26	23	24	22	23	24	29	29
17	24	18	14	12	10	12	14	19	21	21	18	15	14	14	16	18	20	29	40	32	31	34	38	T	21
18	T	T	T	T	T	T	T	T	T	T	9	36	32	37	45	45	49	48	52	58	54	33	31	22	
19	19	14	7	4	3	0	0	7	12	44	39	39	33	33	30	32	32	38	41	42	31	26	24	23	24
20	24	16	12	10	10	11	18	34	41	51	49	43	38	36	40	38	47	47	58	57	44	31	34	28	34
21	25	15	11	8	5	7	18	36	42	34	25	16	10	16	21	28	31	27	26	24	22	20	17	15	21
22	13	12	9	8	8	7	13	29	28	30	42	40	31	38	27	13	29	29	24	23	18	16	12	14	21
23	11	11	11	8	6	4	4	9	21	34	47	47	36	38	45	57	93	95	122	126	83	96	92	20	47
24	10	42	100	62	52	38	37	39	30	76	55	41	41	32	31	43	59	51	58	36	37	42	44	27	45
25	25	15	15	13	13	18	19	33	59	32	19	21	21	15	19	20	50	62	58	29	19	21	15	15	26
26	14	11	10	9	8	9	14	22	23	30	28	38	45	39	44	31	54	73	73	51	20	17	14	14	29
27	11	M	6	5	3	2	4	11	16	17	14	11	10	19	15	17	46	61	33	28	26	22	14	13	18
28	7	5	3	3	2	3	4	10	19	24	22	30	22	36	53	56	68	77	91	46	31	21	23	22	28
29	15	13	15	15	16	11	10	27	49	47	34	25	23	16	12	11	15	16	11	11	13	12	8	5	18
30	3	4	2	1	0	1	3	11	20	18	18	29	24	32	39	46	46	75	124	144	114	78	58	28	38
31	23	22	18	15	15	17	20	28	34	26	34	42	27	32	27	37	14	14	47	54	32	14	16	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			
23	25	30	25	58	73	95	113	0	-	145	13	-	57	2	98	0	

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

MONTH: DECEMBER

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	1	1	1	1	2	1	1	1	1	1	2	2	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	2	3	3	2	2	1
3	2	2	2	2	2	2	2	3	3	4	5	4	4	4	2	3	3	2	3	5	8	8	4	3	3
4	4	4	4	4	4	4	3	3	3	3	8	40	21	7	5	9	10	5	3	3	3	2	2	1	6
5	1	1	1	1	2	2	2	3	3	3	3	3	3	3	2	2	2	3	2	2	2	2	2	2	2
6	2	3	2	3	3	3	3	4	4	4	5	5	4	3	5	4	4	4	3	4	4	4	3	3	4
7	3	4	3	3	3	3	4	4	5	5	5	4	5	4	4	4	4	4	5	4	5	4	5	5	4
8	6	6	5	6	7	7	6	7	7	7	7	6	5	5	4	4	4	4	5	6	8	8	8	9	6
9	10	10	9	9	8	8	8	8	8	8	8	9	8	8	8	8	8	8	7	7	7	8	7	7	8
10	7	7	8	7	6	7	6	6	6	7	8	19	19	18	22	26	23	18	24	24	21	10	9	12	13
11	13	10	9	8	8	9	9	8	8	7	7	8	7	6	6	6	5	5	5	6	6	5	4	5	7
12	5	4	4	4	5	4	5	7	9	9	9	8	8	8	8	8	8	6	5	6	5	2	2	1	6
13	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	1	2	2	1	1	1	1	1	1
14	1	1	1	1	1	1	1	2	2	3	2	3	3	3	3	4	4	3	3	3	3	2	2	1	2
15	2	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	2	5	3	3	2	2	2	2	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	0	2
17	0	0	0	0	1	0	0	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	2	3	1
18	3	4	3	3	3	3	3	3	5	4	4	4	4	4	4	4	5	6	7	6	6	5	5	4	4
19	4	4	4	4	4	4	4	4	4	4	4	3	3	3	2	3	4	3	4	4	5	5	5	6	4
20	6	6	6	6	6	6	7	6	5	4	4	3	4	3	4	5	5	5	6	6	6	5	6	6	5
21	6	6	6	5	5	5	5	6	5	5	4	3	4	5	5	5	4	2	2	3	3	3	3	3	4
22	3	4	4	4	5	5	5	5	5	5	4	4	4	4	3	2	2	3	4	4	3	3	3	3	4
23	3	3	3	3	3	4	3	4	4	3	3	3	3	2	3	3	3	2	50	29	17	16	23	43	10
24	24	54	39	17	22	20	18	15	14	20	12	9	9	8	6	5	7	7	6	7	8	9	9	9	15
25	10	10	10	11	11	12	11	11	11	11	11	10	9	9	9	8	8	7	6	5	5	4	3	5	9
26	4	4	4	4	4	5	6	5	7	9	10	10	10	9	8	9	8	6	4	5	3	3	3	2	6
27	2	2	2	2	1	1	1	2	3	4	3	3	3	2	3	3	3	2	2	2	1	1	1	1	2
28	0	1	1	1	1	1	1	1	2	3	3	2	2	2	2	2	3	3	4	3	2	2	2	2	2
29	2	2	3	2	2	2	1	1	1	2	1	2	1	1	2	2	3	1	2	1	1	1	1	2	2
30	2	2	2	2	2	1	2	2	2	2	3	3	2	2	2	2	3	8	5	4	4	4	3	3	3
31	3	2	2	2	2	2	2	2	3	3	4	3	2	3	4	3	3	5	3	4	4	4	3	2	3

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----			STN GEOM	PERCENT	NO. OF TIMES
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
3	3	5	3	8	11	21	24	0	-	54	1	-	15	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: DECEMBER

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	10	7	4	4	1	3	5	6	5	6	6	3	3	4	9	22	12	4	7	11	11	12	8	7
2	17	22	15	8	2	1	2	3	2	1	0	2	1	0	1	1	3	1	0	2	5	7	3	8	4
3	7	7	4	5	6	6	11	11	5	6	7	5	5	3	2	4	8	5	15	43	60	62	34	9	14
4	8	8	5	7	7	5	9	12	13	12	26	48	32	11	10	29	41	26	33	38	38	31	22	3	20
5	3	2	3	4	1	1	5	8	6	6	4	5	6	11	13	14	10	14	15	12	10	7	7	7	7
6	8	7	2	1	1	1	3	4	5	4	7	6	7	4	7	9	9	9	4	4	4	3	2	3	5
7	2	2	1	0	1	2	5	8	8	13	15	11	12	8	12	12	7	16	36	27	26	10	8	9	10
8	8	3	0	0	1	0	1	4	6	10	8	15	17	18	10	14	18	18	12	8	8	7	7	8	8
9	8	6	5	5	6	13	14	29	35	26	17	17	15	16	20	19	19	16	11	9	7	9	9	8	14
10	7	9	8	6	5	8	7	9	14	18	20	43	38	34	38	43	48	57	65	88	108	38	31	19	32
11	22	11	3	1	2	5	6	7	9	8	6	8	6	4	5	8	8	9	6	10	7	6	4	5	7
12	4	2	1	1	1	3	7	11	14	10	15	17	13	11	12	15	16	13	9	9	7	2	2	0	8
13	0	M	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0
14	0	0	0	0	0	0	0	1	1	2	1	0	1	1	4	6	5	6	5	6	4	2	2	1	2
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	1	9	14	12	6	12	2
16	24	46	42	34	28	25	24	16	13	5	10	6	7	13	11	13	11	18	14	13	12	12	13	13	18
17	10	9	6	6	4	3	4	8	11	11	13	13	13	13	14	11	14	16	20	21	22	16	15	14	12
18	11	9	6	4	4	4	5	23	29	36	39	32	25	24	23	27	40	47	45	38	24	10	7	8	22
19	5	4	5	4	4	3	4	10	14	26	32	25	20	19	18	28	28	21	15	13	9	6	6	7	14
20	6	4	3	3	3	4	7	16	24	25	17	6	17	17	21	20	21	17	17	12	9	5	6	7	12
21	6	4	4	3	2	2	3	8	7	8	7	4	4	5	6	8	9	8	7	8	6	7	7	5	6
22	5	5	4	4	4	3	4	8	9	9	10	6	4	5	5	2	4	10	11	10	7	5	7	2	6
23	1	1	2	1	0	0	1	2	3	2	8	7	5	4	6	14	16	29	92	89	79	60	96	112	26
24	104	121	113	100	122	121	119	97	75	83	21	8	13	12	7	8	13	18	9	5	6	4	2	2	49
25	1	0	0	0	0	0	0	0	4	5	5	7	3	4	6	7	10	9	11	8	8	8	5	11	5
26	7	6	5	3	2	3	5	5	9	13	13	12	11	10	12	14	15	17	8	7	5	5	4	1	8
27	0	M	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	2	1	0	0	1	1
28	0	0	0	0	0	0	0	0	1	2	4	2	1	4	7	11	13	14	23	10	4	5	3	2	4
29	2	2	0	2	3	1	0	2	3	7	0	0	0	0	0	1	3	5	5	0	0	0	0	0	2
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	16	19	17	9	8	1	2	3
31	2	1	0	0	0	0	0	1	3	3	13	6	0	1	1	0	1	6	6	2	2	2	1	5	2

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
7	6	11	6	24	38	80	102	0	-	122	0	-	49	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: DECEMBER

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

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

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

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : NITROGEN DIOXIDE

MONTH: DECEMBER

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	0	0	0	0	0	1	2	3	4	8	10	6	6	9	9	10	8	5	6	6	5	7	4
2	5	5	3	2	1	1	1	1	2	4	6	7	8	14	13	15	11	9	6	7	9	6	3	5	6
3	2	2	4	3	2	2	3	4	8	4	5	5	5	6	8	9	11	5	5	9	8	9	12	15	6
4	11	10	5	2	1	0	1	4	6	11	13	13	12	12	15	19	22	15	9	12	10	9	8	9	10
5	7	6	4	2	1	1	1	2	7	5	5	5	5	5	5	5	8	7	6	5	6	6	5	6	5
6	3	3	3	1	1	1	3	5	5	5	8	9	8	8	9	10	13	14	13	7	7	5	4	6	6
7	3	2	2	1	1	1	3	5	8	8	8	10	18	44	39	27	20	15	11	12	11	13	12	10	12
8	7	4	2	1	1	1	2	5	6	8	9	10	9	8	8	9	8	7	8	7	6	5	7	6	6
9	5	5	4	4	3	2	3	6	8	14	16	18	17	31	28	18	13	11	9	9	9	8	8	8	11
10	7	6	5	5	5	5	4	6	8	10	21	16	26	23	24	24	31	23	21	19	19	18	17	14	15
11	13	12	9	5	4	3	5	8	9	11	8	11	11	10	9	13	12	14	12	8	7	6	6	7	9
12	6	5	5	5	4	3	4	7	11	14	11	10	13	16	25	18	17	13	13	10	9	7	6	5	10
13	3	M	3	2	1	1	3	4	5	6	5	5	6	7	7	6	6	5	5	4	4	4	4	5	4
14	4	3	3	2	2	2	3	4	8	8	9	9	9	8	8	12	12	15	13	9	8	7	6	5	7
15	4	2	1	1	1	1	3	5	6	8	8	7	6	8	9	16	12	10	11	8	9	9	8	11	7
16	10	10	8	5	4	4	3	3	3	3	4	6	7	10	9	9	8	8	8	6	5	4	4	6	6
17	4	4	3	2	1	1	2	3	4	4	4	4	5	4	4	4	4	4	6	7	7	7	7	9	4
18	8	7	5	4	3	3	4	7	13	16	20	21	21	23	22	20	18	16	14	14	13	13	11	11	13
19	10	7	5	5	4	3	3	5	8	11	14	19	20	18	16	15	15	14	13	11	9	8	8	8	10
20	7	7	6	5	5	5	5	8	11	12	13	14	15	14	13	13	14	12	13	12	11	9	8	8	10
21	6	5	4	3	3	3	3	5	8	11	10	9	7	10	9	9	10	11	10	10	8	7	7	8	7
22	7	8	8	7	6	5	5	6	8	11	M	M	15	14	15	12	11	11	10	9	8	8	7	8	9
23	7	6	5	4	4	4	4	4	7	8	11	13	18	17	20	24	21	22	21	18	16	15	15	16	13
24	16	19	27	26	26	26	24	22	24	31	31	25	23	16	11	11	11	11	9	8	7	6	6	6	18
25	4	3	2	1	1	1	1	3	3	4	5	4	3	3	4	5	5	5	8	7	5	5	4	6	4
26	5	4	4	3	2	2	2	3	4	5	7	13	11	12	12	16	38	21	16	14	12	8	6	6	9
27	4	M	3	2	1	1	2	3	4	7	6	6	4	6	5	3	5	6	8	9	8	6	6	7	5
28	5	4	3	3	2	2	3	5	9	11	11	11	8	11	14	16	20	15	13	13	11	12	8	5	9
29	5	2	3	5	9	7	7	6	9	10	12	10	7	4	2	3	4	4	4	3	3	2	2	1	5
30	0	0	0	0	0	0	0	0	1	3	2	2	6	9	27	10	13	8	7	12	11	7	4	3	5
31	1	0	0	0	0	0	0	0	0	1	2	3	10	21	19	14	10	5	4	4	3	1	0	1	4

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
6	7	8	7	16	21	25	28	0	-	44	4	-	18	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: DECEMBER

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	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	1	1	1	1	0
2	0	0	1	1	0	0	0	0	1	1	2	6	6	7	15	14	10	11	8	4	3	1	1	2	4
3	1	1	2	1	1	1	2	1	4	3	4	3	5	8	14	14	16	6	7	22	10	8	10	5	6
4	25	14	7	4	2	1	2	1	4	6	8	15	6	8	7	14	9	7	3	1	1	0	0	2	6
5	2	2	1	2	1	2	3	2	4	4	3	2	2	2	2	1	2	3	3	2	3	2	4	2	2
6	0	1	2	1	1	2	1	2	3	3	3	2	10	9	5	3	1	2	2	1	2	1	1	2	3
7	1	2	1	0	1	2	4	3	2	3	4	3	4	10	21	15	9	7	4	5	4	3	4	6	5
8	4	4	3	4	5	4	5	5	5	5	5	5	4	4	3	3	3	4	4	5	7	6	6	8	5
9	7	7	6	6	6	7	7	8	10	9	9	12	12	15	12	21	8	8	7	5	6	7	6	7	9
10	6	6	5	3	5	5	5	5	5	11	12	18	13	11	10	13	27	38	23	29	25	17	16	12	13
11	12	11	8	8	7	7	7	8	6	6	5	8	6	4	3	3	4	3	3	4	3	3	2	3	6
12	2	2	2	3	3	2	2	6	7	8	7	8	7	7	7	7	6	6	4	4	4	3	1	2	5
13	0	0	0	0	0	0	0	1	0	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	1
14	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	M	55	0	0	0	0	0	0	1	2
15	1	1	2	2	1	2	2	2	1	1	2	1	0	4	6	19	11	4	11	8	16	15	14	14	6
16	9	10	8	9	8	9	5	4	3	3	2	2	2	3	3	2	3	1	0	0	0	0	0	1	4
17	0	1	1	0	0	0	0	1	1	1	2	2	3	2	1	1	1	0	0	0	1	0	2	2	1
18	1	1	1	2	2	1	1	3	8	10	7	6	7	12	8	7	6	4	5	4	4	3	3	3	5
19	3	3	3	3	3	3	3	3	6	8	M	M	12	2	0	M	16	20	17	16	17	17	17	19	9
20	17	17	18	18	18	18	17	17	20	18	16	16	17	16	16	16	16	18	17	17	17	17	17	18	17
21	17	15	17	16	16	16	16	17	19	M	16	15	15	16	17	17	16	15	14	14	14	14	14	14	16
22	13	14	15	15	17	17	17	17	19	15	24	17	20	34	31	22	14	15	16	20	26	24	23	24	20
23	26	28	23	16	17	21	27	24	25	16	25	29	27	32	45	62	45	52	50	39	42	38	53	51	34
24	52	54	39	41	42	50	48	55	70	45	30	23	22	20	18	18	19	20	20	18	19	20	20	23	33
25	23	24	24	24	25	24	25	23	23	22	22	21	21	21	20	20	20	20	20	19	19	17	17	17	21
26	17	17	18	15	17	17	17	17	20	20	21	26	28	27	27	45	58	43	30	33	21	17	15	14	24
27	15	15	13	15	14	13	13	13	15	16	15	15	15	15	13	14	15	15	15	15	15	14	14	14	14
28	14	13	14	13	13	14	12	14	16	15	24	15	15	15	17	16	15	16	16	15	39	28	18	20	17
29	22	18	15	22	30	26	23	25	52	48	26	25	14	13	14	13	15	15	14	14	14	14	14	14	21
30	13	13	11	13	12	12	13	14	13	13	13	14	19	26	31	18	23	20	34	43	35	21	16	14	19
31	13	14	14	13	14	13	13	13	13	14	14	14	15	27	20	33	25	26	19	15	15	14	13	15	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	
8	8	11	8	24	30	46	52	0	-	70	0	-	34	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: DECEMBER

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	24	26	28	25	22	22	27	36	38	40	35	38	41	27	23	31	39	44	33	43	63	58	58	50	36
2	46	44	32	27	25	23	28	31	32	36	36	41	48	50	46	51	60	67	86	64	36	42	21	42	
3	25	M	86	60	38	31	38	39	39	31	20	15	17	21	42	56	44	42	76	141	102	118	147	109	58
4	115	85	48	25	21	19	38	33	38	55	48	44	41	45	53	70	56	53	78	85	78	71	49	58	54
5	46	43	38	26	23	23	29	40	46	44	36	39	44	41	43	44	46	47	44	43	44	51	44	32	40
6	22	16	12	11	11	10	13	24	32	35	34	39	38	31	26	35	51	55	36	34	37	28	24	20	28
7	16	13	13	10	9	12	17	35	40	40	38	38	64	63	80	87	84	86	83	80	95	97	89	55	52
8	40	21	18	18	13	12	22	37	43	39	41	39	39	36	36	37	49	44	56	62	37	30	33	30	35
9	32	24	24	24	23	23	47	67	80	88	85	64	57	69	66	57	38	43	58	70	45	35	33	23	49
10	19	20	24	31	35	42	30	36	48	51	59	58	53	45	56	59	96	151	107	143	167	133	118	54	68
11	44	40	14	14	17	14	16	20	41	41	31	38	24	23	27	32	36	42	38	29	24	18	17	22	28
12	17	13	11	10	11	14	19	37	41	45	51	55	57	48	57	59	48	38	37	32	28	22	15	12	32
13	10	8	7	8	8	8	10	18	27	31	29	28	22	22	27	26	25	25	27	20	15	13	10	11	18
14	9	8	7	6	7	6	8	15	22	20	29	27	20	19	26	34	40	64	47	42	27	22	17	17	22
15	17	11	12	10	9	10	11	15	21	15	19	20	19	28	31	46	50	40	61	68	106	73	69	60	34
16	52	48	42	37	37	34	35	33	32	29	27	26	31	32	34	33	34	39	43	37	35	32	31	31	35
17	28	M	20	19	19	21	25	31	34	31	27	27	26	24	25	30	32	40	45	43	46	40	43	36	31
18	34	31	25	18	18	21	32	53	60	62	64	54	50	61	53	52	59	65	62	68	62	51	39	35	47
19	27	21	21	17	15	14	24	46	51	53	46	56	46	42	37	42	52	50	60	49	39	33	29	34	38
20	31	26	20	19	19	21	28	55	63	59	44	42	42	44	43	49	52	55	59	59	40	32	35	29	40
21	28	23	17	14	14	16	23	39	64	M	25	23	13	17	20	23	27	29	28	26	23	21	20	14	24
22	12	12	12	11	11	11	14	23	35	24	42	39	43	62	62	48	25	39	40	49	67	67	73	72	37
23	65	74	44	18	20	31	59	61	66	39	61	63	65	84	101	106	102	127	132	118	128	130	152	151	83
24	141	165	167	161	170	156	135	132	127	117	77	40	46	40	34	42	46	62	49	36	31	28	28	26	86
25	26	22	21	23	21	22	30	50	52	44	34	19	20	20	23	27	28	29	30	32	26	25	24	20	28
26	19	16	14	13	11	11	14	19	30	29	25	31	43	39	37	52	88	79	82	106	49	23	19	19	36
27	16	11	9	8	7	7	9	14	19	20	11	12	14	16	18	19	28	46	39	33	26	21	20	18	18
28	15	10	8	7	6	9	8	15	21	16	31	24	25	30	45	50	54	60	74	84	114	71	33	39	35
29	41	23	25	46	73	71	76	69	67	70	56	48	26	23	17	14	17	19	20	22	23	21	18	12	37
30	11	9	6	5	5	5	9	13	16	18	18	24	48	48	45	28	35	42	77	98	94	56	30	32	32
31	25	M	23	22	22	21	22	25	27	33	36	32	37	46	38	58	39	72	57	36	32	24	18	16	33

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		
32	34	40	34	71	96	132	151	5	-	170	18	-	86	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: DECEMBER

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	2	3	2	2	2	2	2	2	3	3	3	8	3	1	3	3	M	4	4	4	4	4	5	3	3	
2	3	3	4	3	3	2	2	3	3	3	3	2	3	11	9	5	5	4	4	4	4	4	4	3	4	
3	4	3	3	4	3	4	4	3	5	5	6	5	5	7	9	11	8	13	9	22	17	16	25	23	9	
4	10	8	6	7	6	5	6	5	7	17	28	30	17	16	16	28	25	14	13	7	6	5	5	4	12	
5	2	3	3	3	3	3	3	4	4	4	4	4	4	5	6	6	6	5	5	5	4	4	4	4	4	
6	3	5	4	5	4	4	4	5	6	7	6	6	5	5	6	6	7	7	5	5	6	5	3	7	5	
7	7	8	7	7	8	7	8	9	9	9	9	12	9	12	36	17	11	9	9	9	12	11	9	10	11	11
8	11	10	9	10	11	11	11	11	12	12	12	11	11	11	11	10	9	9	9	10	12	12	11	12	11	11
9	13	13	13	12	12	13	12	11	13	13	29	26	22	30	15	13	13	13	12	11	10	11	11	7	15	
10	7	7	7	9	7	6	6	6	7	8	20	23	18	25	37	27	30	31	36	24	26	17	15	15	17	
11	16	16	12	11	10	10	10	9	9	9	9	9	9	7	7	8	7	7	7	7	8	6	6	8	9	
12	7	7	6	6	8	7	8	9	11	12	12	12	12	11	12	12	12	10	8	9	7	5	4	3	9	
13	2	2	1	2	2	3	3	4	4	4	3	4	3	3	4	4	4	4	4	4	4	3	3	2	3	
14	2	2	1	2	3	2	3	3	2	4	4	5	5	4	4	5	5	5	5	5	5	4	M	3	4	
15	4	4	4	3	4	4	3	3	2	2	3	2	2	2	2	4	3	3	5	9	24	22	17	14	6	
16	9	11	9	9	8	6	3	3	2	1	1	2	2	3	3	3	3	3	2	2	2	2	2	2	4	
17	2	2	2	2	3	2	2	2	2	2	3	2	2	3	3	3	2	3	4	4	4	4	5	5	3	
18	5	5	5	5	5	5	5	6	8	7	9	9	10	16	12	10	9	8	8	8	7	6	6	7	8	
19	7	8	7	8	8	8	9	9	9	8	8	9	9	8	7	8	7	7	7	8	7	8	8	10	8	
20	9	8	9	9	10	10	9	9	10	9	8	7	7	8	8	8	8	9	10	9	8	8	8	9	9	
21	9	9	9	8	7	8	8	10	8	6	6	5	7	7	8	8	8	6	5	6	7	6	7	6	7	
22	5	7	6	8	8	8	8	8	8	7	8	7	8	8	6	6	4	4	3	6	7	6	7	6	7	
23	5	4	4	4	4	5	4	4	4	4	4	7	6	2	3	16	29	111	97	48	40	62	54	34	23	
24	48	63	32	20	24	22	30	37	50	42	36	17	12	13	10	12	10	11	9	9	10	11	11	12	23	
25	12	13	12	12	13	13	13	13	12	10	11	9	8	9	11	10	9	10	9	7	6	6	5	5	10	
26	4	3	4	5	5	6	7	6	7	9	11	10	10	10	9	22	25	23	15	7	5	3	4	6	9	
27	5	6	5	5	4	3	3	4	5	6	5	6	6	5	6	6	6	6	5	4	5	4	5	4	5	
28	4	4	4	4	4	4	5	4	5	6	7	6	5	6	6	6	7	7	7	8	7	7	6	6	6	
29	7	7	8	11	16	12	13	20	12	6	6	6	6	5	6	6	7	6	5	6	6	6	6	4	8	
30	3	3	3	3	3	3	2	3	4	4	4	4	4	5	6	6	14	20	31	17	9	6	7	4	7	
31	3	3	2	2	2	1	2	2	2	4	4	4	22	20	8	10	5	6	4	3	4	5	5	4	5	

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
6	6	8	6	14	23	34	46	1	-	111	3	-	23	2	100	0

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

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

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	13	12	10	7	7	11	17	22	27	27	35	16	3	1	2	M	10	12	26	39	38	42	45	18
2	45	46	35	32	27	27	33	33	32	25	16	15	14	46	25	12	16	27	38	41	30	25	23	30	29
3	32	30	24	24	28	43	45	43	33	20	14	11	11	13	20	25	24	41	47	113	108	94	104	91	43
4	75	44	25	28	23	28	47	45	45	51	58	51	51	52	63	70	56	42	50	77	78	70	65	49	52
5	42	36	32	31	27	25	25	31	33	24	21	20	22	40	48	50	49	38	45	51	48	38	34	22	35
6	21	20	17	14	12	14	16	21	21	21	20	20	17	14	12	12	15	16	13	20	19	17	12	13	17
7	14	12	12	11	11	13	17	27	33	27	32	25	31	55	42	24	29	52	88	100	59	39	37	33	34
8	29	17	14	11	11	13	18	28	33	33	34	35	34	30	35	41	51	48	47	40	39	26	28	29	30
9	30	26	23	20	22	25	48	77	67	81	97	79	58	54	26	21	20	28	32	44	36	38	39	35	43
10	37	30	26	26	36	37	41	37	32	29	67	69	55	53	69	58	58	91	139	96	135	98	95	46	61
11	46	48	24	13	14	19	22	28	34	19	17	21	15	14	10	9	10	12	19	17	17	18	15	13	20
12	11	9	8	9	10	13	20	31	28	30	30	27	29	24	27	31	19	17	14	16	12	8	6	7	18
13	5	5	5	4	4	5	5	6	6	9	13	17	13	11	8	8	8	9	10	6	6	4	4	5	7
14	3	2	3	2	3	3	6	13	7	6	11	9	10	11	13	8	17	23	17	16	8	6	M	11	9
15	7	5	6	4	5	7	8	10	7	8	8	8	10	11	8	10	12	22	22	57	73	78	67	62	21
16	53	48	45	39	36	35	33	30	27	27	24	25	23	25	23	23	30	38	34	29	29	29	33	35	32
17	32	24	18	17	17	18	21	25	27	26	25	25	21	22	23	28	34	40	50	46	40	35	40	33	29
18	31	20	17	15	15	15	26	46	50	49	55	54	48	60	58	56	63	64	66	67	54	36	31	25	43
19	24	21	14	11	11	11	19	34	41	54	48	51	48	42	33	39	38	51	53	39	37	27	31	26	33
20	23	16	12	14	15	19	29	49	52	46	40	34	29	36	33	31	39	56	49	44	40	33	32	34	34
21	31	22	16	14	13	13	24	34	23	12	10	6	5	6	6	7	9	10	12	13	14	11	14	13	14
22	11	10	9	8	8	8	15	18	24	21	23	18	14	15	13	11	18	25	27	30	26	24	20	15	17
23	11	12	9	7	6	8	14	23	21	23	26	30	26	16	28	53	84	123	131	129	130	137	135	137	55
24	136	158	166	142	145	137	130	122	117	116	82	43	36	42	30	31	33	40	37	25	22	25	27	26	78
25	24	19	16	14	13	17	24	32	33	24	12	10	10	8	10	11	13	24	19	18	14	13	12	13	17
26	12	12	11	11	9	11	14	18	20	23	24	23	19	14	18	33	49	47	40	22	15	12	10	14	20
27	15	21	11	10	8	7	9	11	13	12	11	11	11	11	8	9	20	23	20	13	16	14	11	12	13
28	8	11	7	6	5	6	9	10	11	15	14	23	10	19	19	16	21	36	38	30	27	26	21	22	17
29	23	18	20	35	53	40	49	47	33	16	13	12	8	7	6	8	10	11	11	9	8	10	8	8	19
30	7	7	6	5	4	6	10	11	10	8	9	10	6	16	25	15	39	66	79	63	82	36	22	23	24
31	26	22	19	18	18	17	18	22	26	26	29	27	60	38	20	21	9	11	13	12	21	13	12	13	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	
22	23	29	23	54	78	124	137	1	-	166	7	-	78	2	100	0

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

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

STATION : CHEUNG CHAU  
POLLUTANT : SULPHUR DIOXIDE

MONTH: DECEMBER

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
6	7	8	7	15	17	22	24	1	-	33	3	-	17	2	100	0

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

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

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	16	36	36	25	20	23	23	28	32	38	27	34	45	46	25	15	13	16	24	39	108	85	63	45	36
2	52	41	36	28	22	23	27	33	30	37	37	41	46	42	27	11	14	25	35	26	35	47	34	71	34
3	99	82	43	47	42	40	37	42	47	67	45	16	10	13	13	20	30	24	23	65	95	126	102	113	52
4	104	86	79	50	56	36	47	43	32	34	42	34	39	51	41	33	32	34	55	52	60	56	50	44	50
5	41	29	28	26	18	19	27	42	43	42	42	43	48	47	47	60	71	78	78	109	62	53	64	50	49
6	31	39	55	22	14	15	14	18	28	28	35	31	22	14	15	12	15	17	14	21	21	22	28	14	23
7	21	20	25	17	11	21	32	18	32	49	61	71	70	73	59	34	33	41	83	101	82	75	88	94	50
8	70	41	23	15	15	16	20	27	25	30	26	34	34	36	39	47	43	53	62	57	49	44	44	43	37
9	33	28	31	26	26	29	39	60	64	65	56	75	64	74	60	31	35	34	29	35	36	39	43	21	43
10	21	30	73	74	59	54	58	69	76	76	70	57	54	46	56	56	61	172	173	146	109	107	110	85	79
11	76	57	41	31	26	33	60	45	68	81	48	33	48	40	24	13	13	18	21	22	27	28	17	22	37
12	18	18	16	12	13	44	56	59	108	48	90	76	74	74	52	27	24	22	24	30	27	20	26	26	41
13	18	M	17	17	16	16	17	26	23	15	21	29	21	19	26	29	25	19	19	26	12	22	27	12	21
14	23	24	27	19	9	7	11	19	14	19	33	14	23	41	22	16	15	16	12	23	24	17	17	37	20
15	24	17	16	15	12	16	20	26	17	19	27	39	28	25	14	14	13	19	26	45	37	88	89	82	30
16	71	61	51	46	44	39	40	42	36	30	31	24	24	29	24	26	32	42	45	45	42	38	35	32	39
17	33	30	28	22	20	22	24	26	28	38	29	32	29	33	41	40	43	52	54	58	55	48	44	32	36
18	28	24	23	20	20	19	23	45	48	55	56	61	62	68	67	62	82	73	70	63	63	49	49	40	49
19	29	24	28	31	29	31	38	48	53	53	41	50	54	56	54	51	52	49	49	46	37	32	30	30	41
20	23	22	22	22	21	25	29	37	34	52	37	33	37	32	35	55	63	43	48	45	47	41	40	31	36
21	32	32	27	22	18	23	27	44	54	71	45	27	23	29	20	28	31	31	21	20	19	22	18	20	29
22	21	20	23	18	22	42	40	69	72	97	77	83	40	16	16	14	32	37	45	28	20	21	27	28	38
23	44	104	67	32	27	46	69	85	119	117	124	122	139	85	42	65	71	58	94	134	155	151	147	150	94
24	157	177	226	201	190	165	150	127	130	135	102	99	100	89	74	92	62	57	52	46	32	42	38	41	108
25	27	26	28	22	24	21	26	33	37	57	45	54	41	20	20	17	20	20	23	28	27	21	21	20	28
26	24	25	21	16	22	43	38	39	63	78	72	74	44	20	20	32	32	38	39	29	19	20	23	17	35
27	22	M	14	12	15	29	20	28	23	27	20	28	23	18	10	9	10	15	16	20	20	19	14	18	19
28	23	17	16	11	11	14	25	16	23	39	30	46	48	20	16	26	18	20	26	38	28	29	29	24	25
29	45	84	91	82	40	64	77	80	82	72	21	11	10	9	9	8	10	12	12	18	28	16	11	22	38
30	39	13	10	11	11	14	16	51	68	58	29	29	28	10	32	23	30	34	36	92	152	118	113	28	44
31	22	18	17	15	15	19	23	27	31	36	29	31	41	45	33	31	31	22	57	34	30	36	23	21	29

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		
34	32	42	32	77	102	140	156	7	-	226	19	-	108	2	100	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 : October – December 2017

Week Ending	No. of Samples	Suspended Solids, mg/L			pH		
		Maximum	Minimum	Average	Maximum	Minimum	Average
07/10/17	7	20	12	16	8.3	7.9	8.1
14/10/17	7	21	12	16	8.3	7.8	8.0
21/10/17	7	21	14	18	8.3	7.8	8.1
28/10/17	7	22	14	17	8.2	7.9	8.1
04/11/17	7	23	14	19	8.2	7.6	8.0
11/11/17	7	21	12	16	8.1	7.7	7.9
18/11/17	7	22	12	17	8.1	7.6	7.9
25/11/17	7	22	15	19	8.3	7.6	8.0
02/12/17	7	23	14	18	8.3	7.8	8.0
09/12/17	7	23	15	18	8.2	7.8	8.0
16/12/17	6*	20	12	15	8.3	7.9	8.1
23/12/17	7	22	11	17	8.2	7.7	8.0
30/12/17	7	23	12	17	8.2	7.9	8.1

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 : October – December 2017

Sampling date		10/10/2017	7/11/2017	6/12/2017
Barium,	ug/L	<150	<150	<150
Mercury,	ug/L	<0.5	<0.5	<0.5
Cadmium,	ug/L	<1	<1	<1
Iron,	ug/L	<400	<400	<400
Total Phosphorous,	mg/L	<0.8	<0.8	<0.8
Total Nitrogen,	mg/L	35	48	36
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