

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



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

Operational Phase

Quarterly Environmental Monitoring & Audit Report

April – June 2016

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**

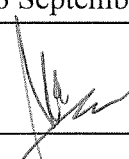
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EXECUTIVE SUMMARY

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 April to June 2016.

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	01/04/2016 00:00 to 05/04/2016 19:09	Unit overhaul
L4	04/05/2016 22:46 to 05/05/2016 07:36	Defect rectification
L4	14/05/2016 00:16 to 14/05/2016 08:31	Defect rectification
L4	27/05/2016 21:11 to 30/05/2016 06:00	Modification and defect rectification
L4	29/06/2016 02:30 to 29/06/2016 08:33	Defect rectification
L4	29/06/2016 19:23 to 30/06/2016 01:04	Defect rectification
L5	16/04/2016 00:27 to 17/04/2016 16:29	Defect rectification
L5	04/06/2016 00:24 to 07/06/2016 07:19	Defect rectification

Malfunction/Outage Records of Pollution Control Equipment

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

Equipment	Period	Cause	Actions Taken
L2 FGD	01/04/2016 15:00 to 18:16	FGD plant BUF overhaul	EPD was informed by letter on 06/04/2016
L2 FGD	02/04/2016 14:18 to 14:32	Flue gas temperature low at FGD inlet	EPD was informed by letter on 06/04/2016
L4 FGD	11/04/2016 14:23 to 14:52	Furnace pressure fluctuation	EPD was informed by letter on 13/04/2016
L4 FGD	22:34 04/05/2016 to 20:00 10/05/2016	Defect rectification	EPD was informed on 12/05/2016
L5 FGD	07/06/2016 15:15 to 16:40	FGD plant was bypassed due to BUF control oil temperature high	EPD was informed by letter on 13/06/2016

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

Description	Permit / Licence No.	Valid Period		Issued To	Date of Issuance
		From	To		
Specified Process Licence issued under APCO	L-7-002(10)	01/01/2015	31/12/2016	HK Electric	23/12/2014
WPCO discharge licence for Ash Lagoon	WT00011131-2011	15/12/2011	31/12/2016	HK Electric	15/12/2011

Implementation Status of Environmental Mitigation Measures

Environmental mitigation measures were implemented in the reporting period.

Environmental Complaints

There were two (2) cases of environmental concern against the operation of Lamma Power Station during the reporting period. One was about “white foam” which was considered not an uncommon phenomenon and not harmful to the environment. HK Electric would anyway exercise its best effort to suppress the foam. The other one was about “smoke emission” which was believed to be a misconception after an investigation. Both cases had been closed.

Future key issues

Key issues to be considered in the coming months include:

Air Impact

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

Water Impact

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

Concluding Remarks

The environmental performance of the projects was generally satisfactory.

1. INTRODUCTION

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

This report summarizes the environmental monitoring and audit work for the said Projects for the period from April to June 2016.

1.1 Background

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

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

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

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

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

1.2 Project Organisation

The management structure to oversee the Projects includes the following:

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

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

1.3 Plant Availability during the Reporting Period

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

Unit	Period	Remark
L2	01/04/2016 00:00 to 05/04/2016 19:09	Unit overhaul
L4	04/05/2016 22:46 to 05/05/2016 07:36	Defect rectification
L4	14/05/2016 00:16 to 14/05/2016 08:31	Defect rectification
L4	27/05/2016 21:11 to 30/05/2016 06:00	Modification and defect rectification
L4	29/06/2016 02:30 to 29/06/2016 08:33	Defect rectification
L4	29/06/2016 19:23 to 30/06/2016 01:04	Defect rectification
L5	16/04/2016 00:27 to 17/04/2016 16:29	Defect rectification
L5	04/06/2016 00:24 to 07/06/2016 07:19	Defect rectification

1.4 Malfunction/Outage Records of Pollution Control Equipment

Equipment	Period	Cause	Actions Taken
L2 FGD	01/04/2016 15:00 to 18:16	FGD plant BUF overhaul	EPD was informed by letter on 06/04/2016

Equipment	Period	Cause	Actions Taken
L2 FGD	02/04/2016 14:18 to 14:32	Flue gas temperature low at FGD inlet	EPD was informed by letter on 06/04/2016
L5 FGD	09/04/2016 03:19 to 03:22	Routine dampers checking	EPD was informed on 13/04/2016
L4 FGD	11/04/2016 14:23 to 14:52	Furnace pressure fluctuation	EPD was informed by letter on 13/04/2016
L4 FGD	23/04/2016 03:03 to 03:07	Routine dampers checking	EPD was informed on 26/04/2016
L5 FGD	23/04/2016 02:58 to 03:01	Routine dampers checking	EPD was informed on 26/04/2016
L4 FGD	30/04/2016 02:43 to 02:51	Routine dampers checking	EPD was informed on 04/05/2016
L5 FGD	30/04/2016 02:57 to 03:02	Routine dampers checking	EPD was informed on 04/05/2016
L4 FGD	04/05/2016 19:24 to 19:29	Routine dampers checking	EPD was informed on 06/05/2016
L4 FGD	22:34 04/05/2016 to 20:00 10/05/2016	Defect rectification	EPD was informed on 12/05/2016
L5 FGD	07/05/2016 02:52 to 03:13	Routine dampers checking	EPD was informed on 11/05/2016
L5 FGD	14/05/2016 02:26 to 02:29	Routine dampers checking	EPD was informed on 18/05/2016
L4 FGD	21/05/2016 02:30 to 02:33	Routine dampers checking	EPD was informed on 25/05/2016
L5 FGD	21/05/2016 02:37 to 02:41	Routine dampers checking	EPD was informed on 25/05/2016
L5 FGD	28/05/2016 01:53 to 02:12	Routine dampers checking	EPD was informed on 30/05/2016
L5 FGD	07/06/2016 15:15 to 16:40	FGD plant was bypassed due to BUF control oil temperature high	EPD was informed by letter on 13/06/2016
L4 FGD	11/06/2016 01:10 to 01:15	Routine dampers checking	EPD was informed on 13/06/2016
L2 FGD	17/06/2016 00:46 to 00:51	Routine dampers checking	EPD was informed on 20/06/2016
L4 FGD	18/06/2016 03:56 to 04:08	Routine dampers checking	EPD was informed on 20/06/2016

Equipment	Period	Cause	Actions Taken
L5 FGD	18/06/2016 02:51 to 03:00	Routine dampers checking	EPD was informed on 20/06/2016
L2 FGD	23/06/2016 10:59 to 11:04	FGD plant was bypassed due to furnace draft fluctuation	EPD was informed by letter on 27/06/2016
L4 FGD	25/06/2016 01:37 to 01:41	Routine dampers checking	EPD was informed on 27/06/2016
L5 FGD	25/06/2016 01:24 to 01:26	Routine dampers checking	EPD was informed on 27/06/2016

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.

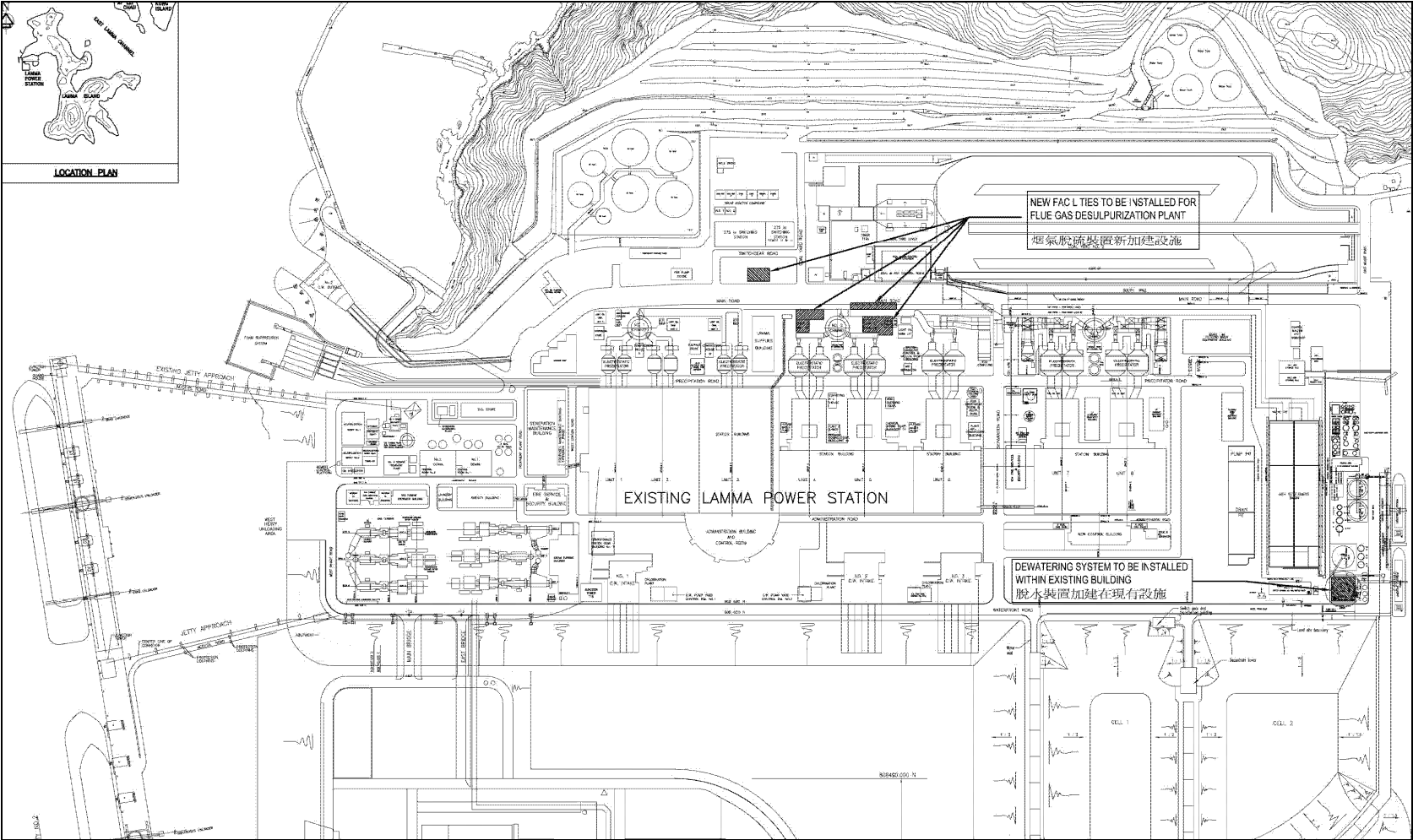


Figure 1.1a Location of New Facilities for L4 & L5 FGD Plants

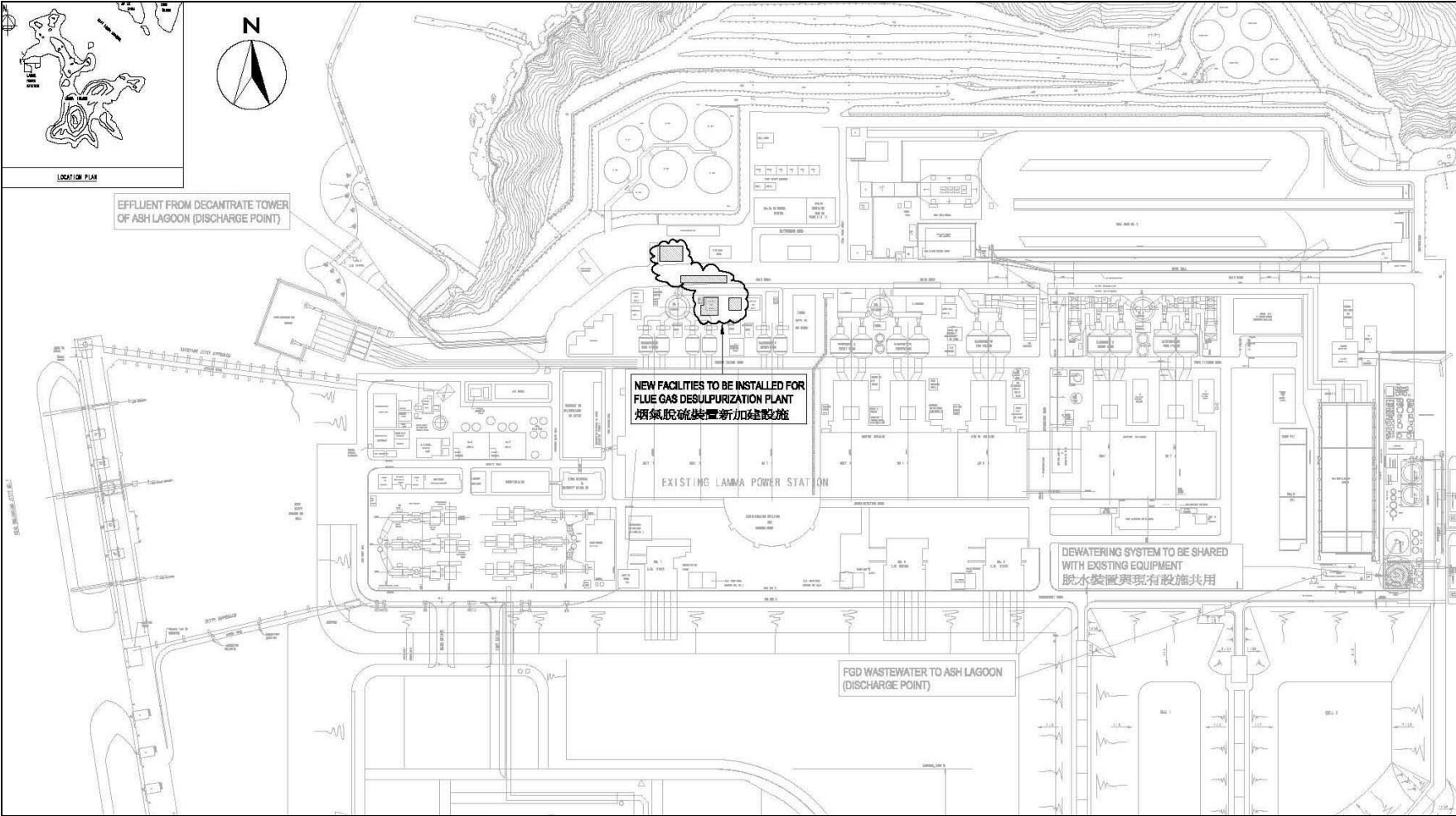


Figure 1.1b Location of New Facilities for L2 FGD Plant

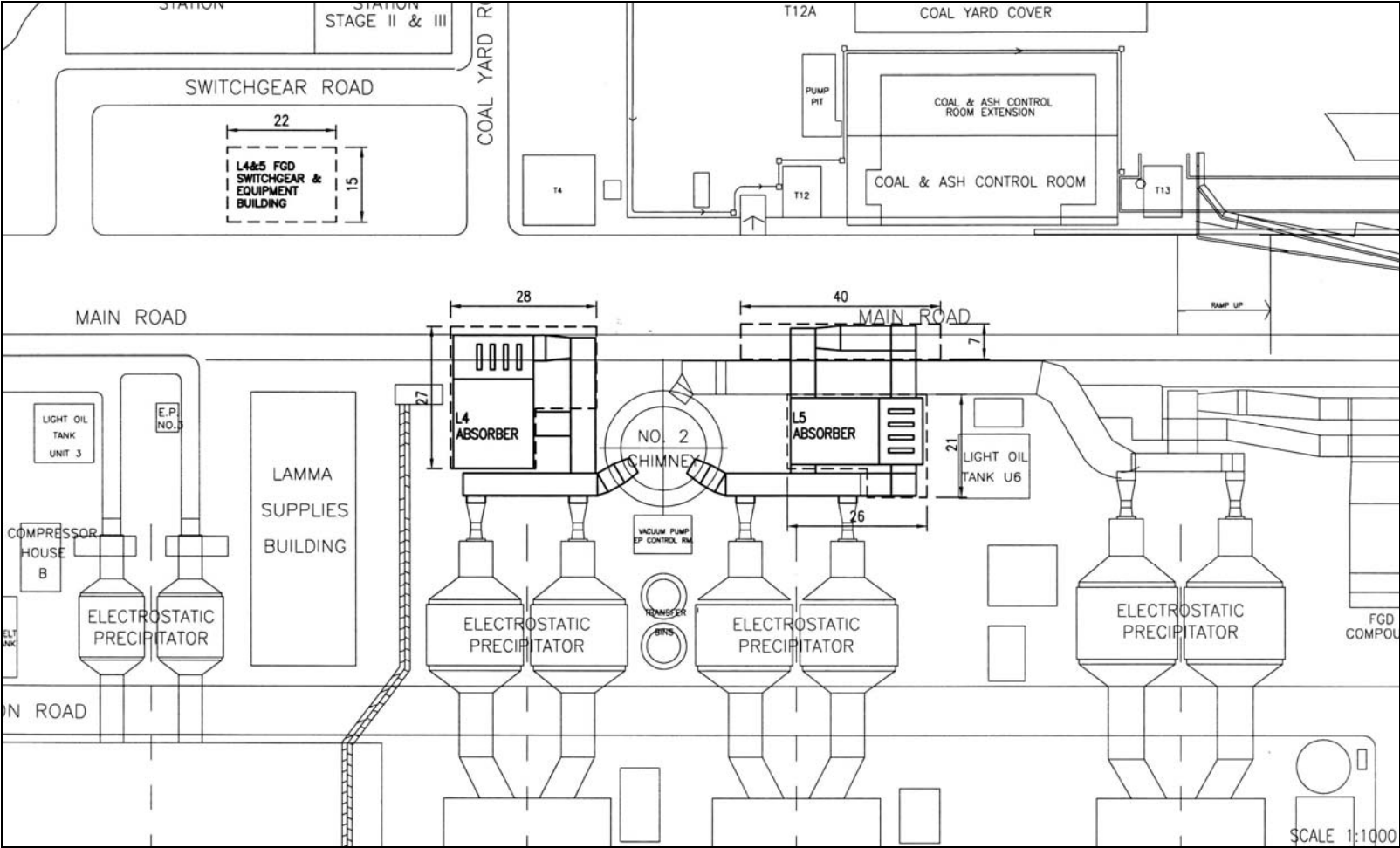


Figure 1.2a General Arrangement of L4 & L5 FGD Plants

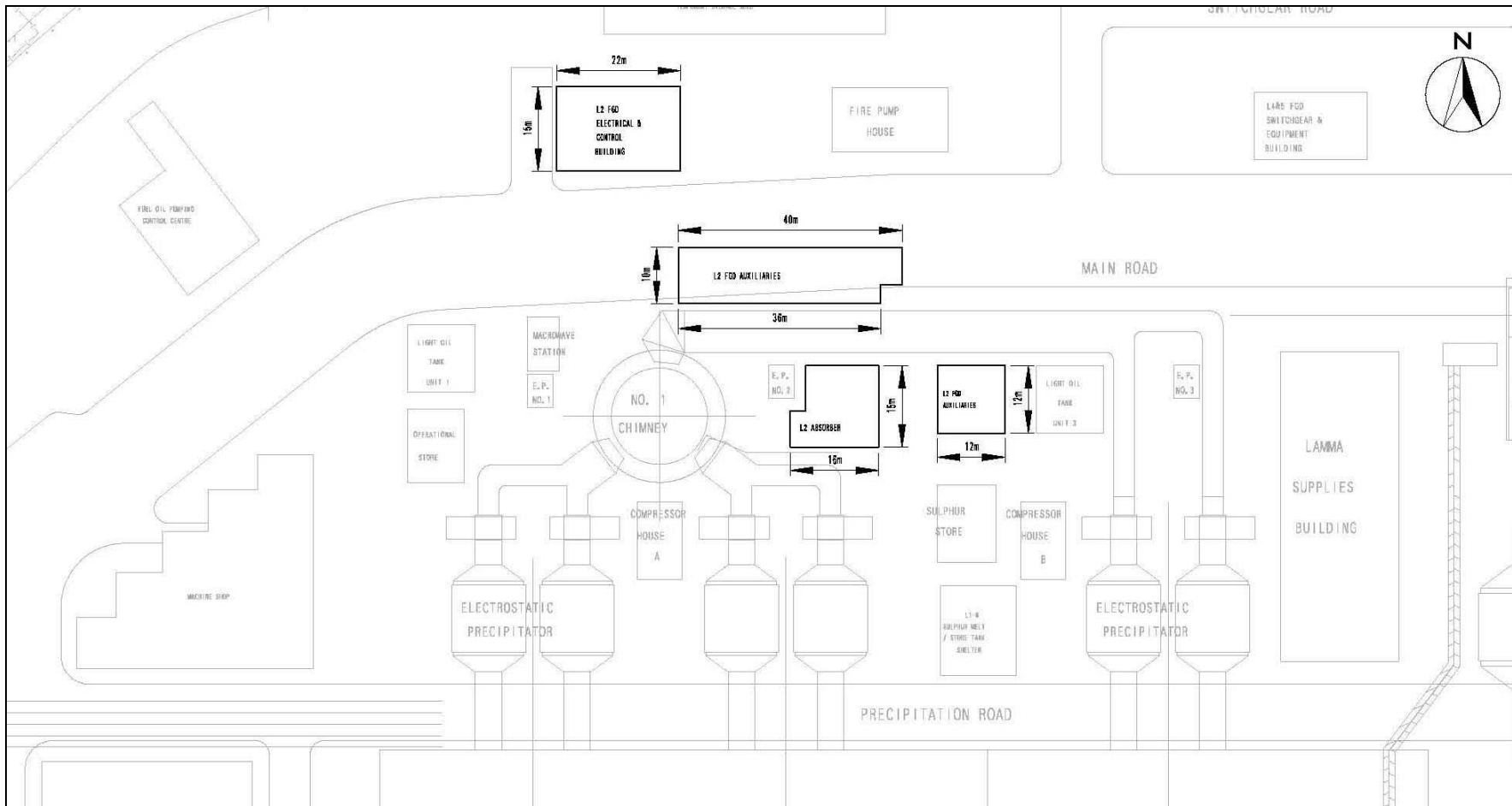


Figure 1.2b General Arrangement of L2 FGD Plant

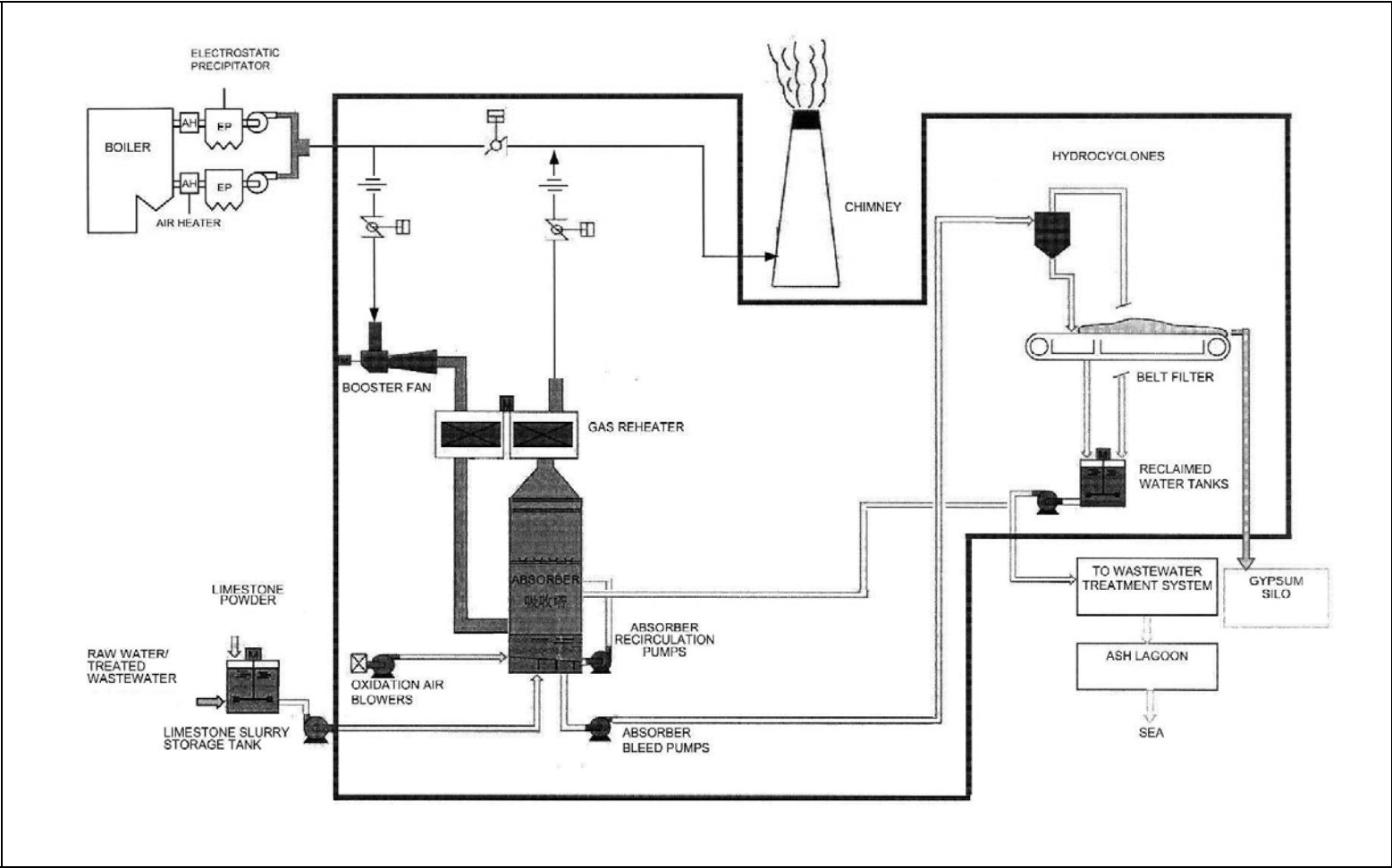


Figure 1.3 Schematic Diagram of the L2, L4 & L5 FGD Plant

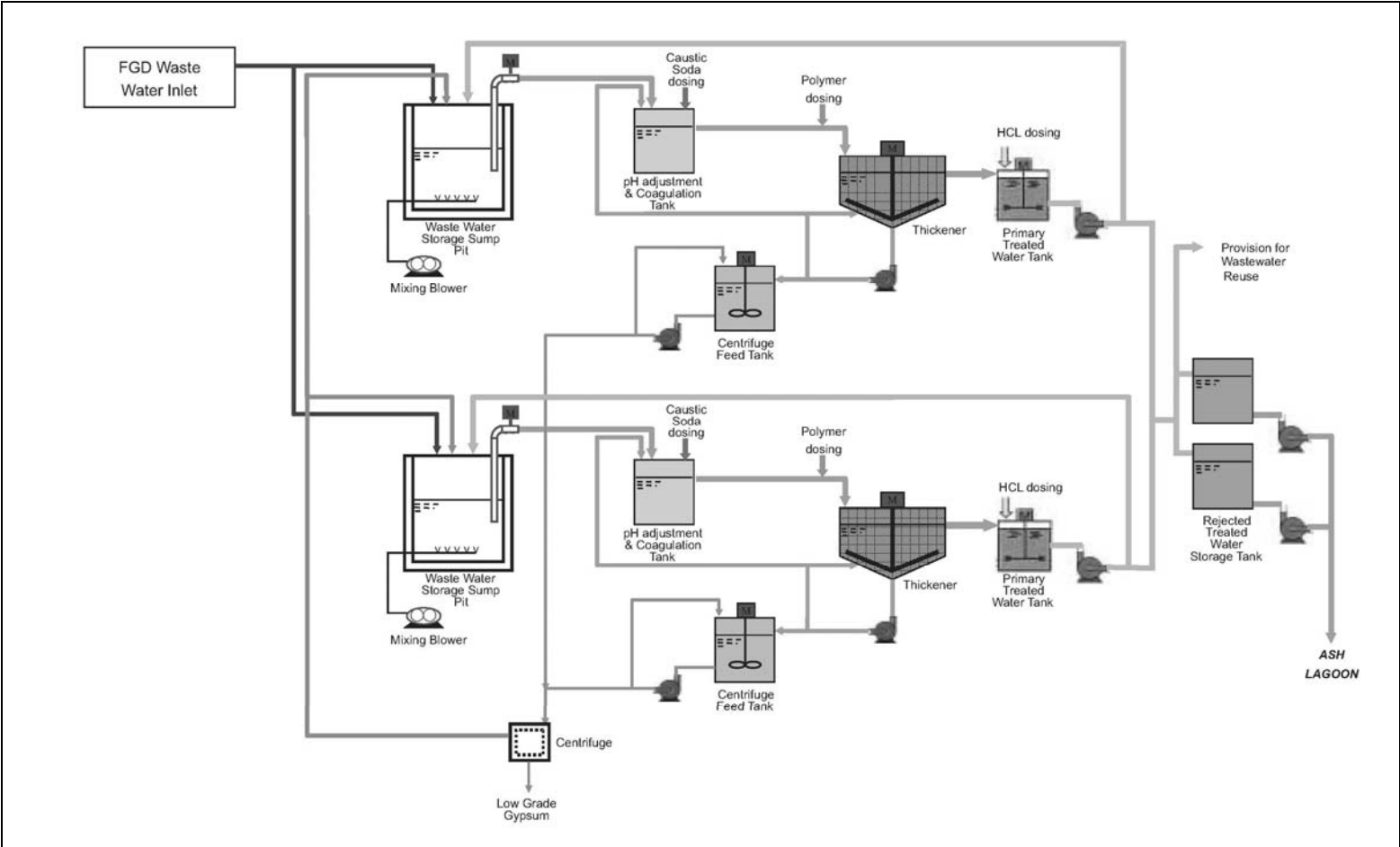


Figure 1.4 Simplified Schematic Diagram of FGD Wastewater Treatment Plant

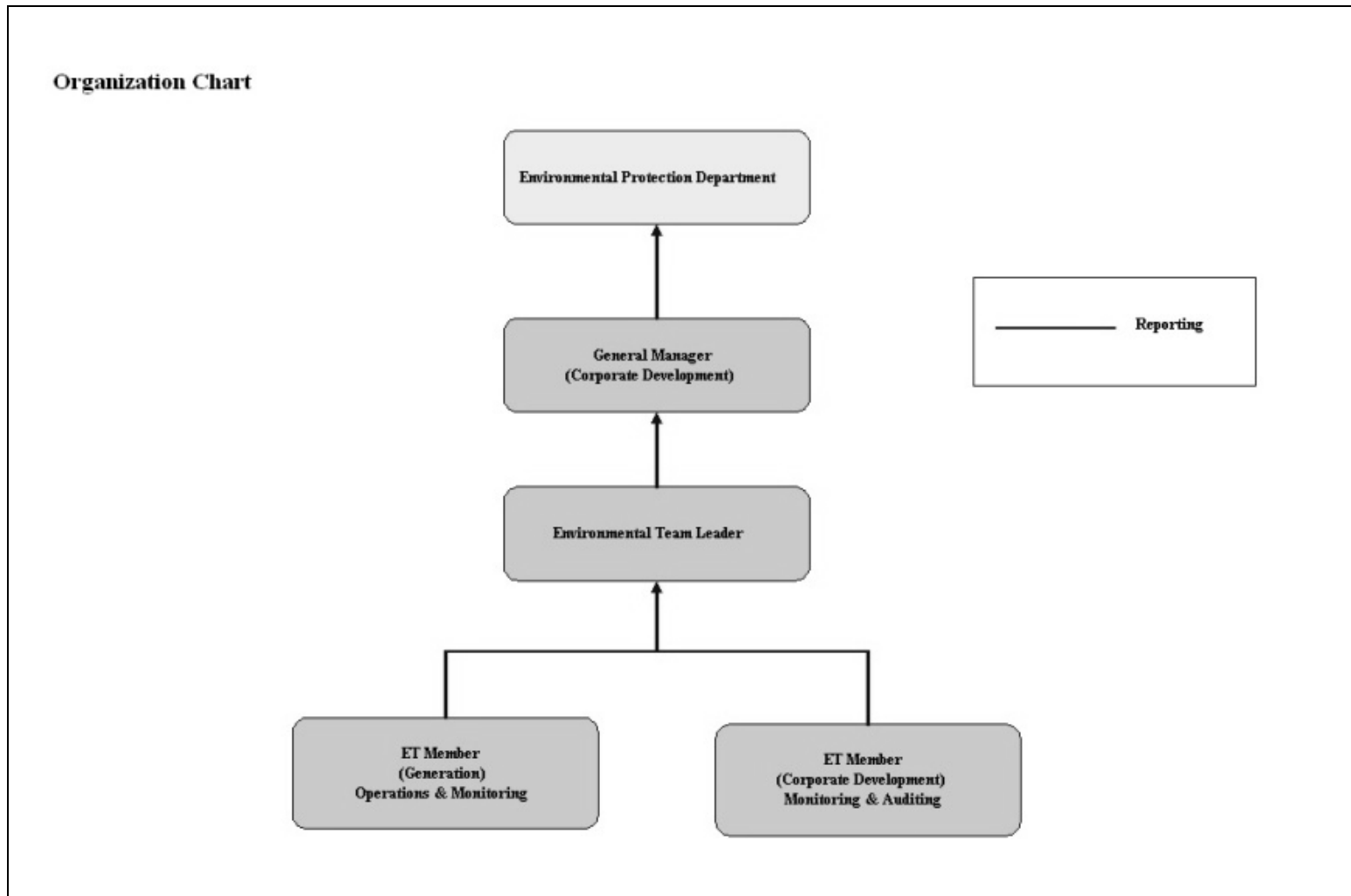


Figure 1.5 Organization Structure at Operational Phase of the Projects

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. 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 and checked against the Action/Limit Levels shown in Appendix A.

Table 2.1 Air Quality Monitoring Parameters and Frequency

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

2.2 Summary of Results and Observations

Monitoring of various parameters as listed in Table 2.1 above was conducted during the operation of Units L2, L4 and L5 in the reporting period. Ambient air monitoring at Ap Lei Chau was temporary suspended since 1/6/2016 for the replacement of the aged shelter of the station. A summary of monitoring data is shown in Appendix B.

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

3. WATER QUALITY

3.1 Monitoring Requirements

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

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

Table 3.1 Water Quality Monitoring Parameters and Frequencies

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

3.2 Summary of Results and Observations

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

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

4. ENVIRONMENTAL AUDIT

4.1 Review of Environmental Monitoring Procedures

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

4.2 Assessment of Environmental Monitoring Results

Monitoring results for Air Quality and Water Quality

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

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

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
Air					
1	Annual analysis of dust particulate emission rates at chimney stacks.	01/04/16-30/06/16	N.A.	0	Stack PM sampling test for L4 was conducted in the reporting period.
2	Continuous monitoring of opacity, NO _x , SO ₂ and CO ₂ in the flue gas at the chimney stacks	01/04/16-30/06/16	0	0	
3	TSP monitoring at Lamma Power Station Boundary (ie East Gate and Reservoir).	01/04/16-30/06/16	0	0	
4	Ambient SO ₂ & NO _x monitoring at the Peak, Queen Mary Hospital, Victoria Road, Chung Hom Kok, Ap Lei Chau and	01/04/16-30/06/16	0	0	

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
	Cheung Chau.				
Water					
1	pH in WWTP Effluent	01/04/16-30/06/16	0	0	
2	Suspended Solids in WWTP Effluent	01/04/16-30/06/16	0	0	
3	Iron in WWTP Effluent	01/04/16-30/06/16	0	0	
4	Barium in WWTP Effluent	01/04/16-30/06/16	0	0	
5	Mercury in WWTP Effluent	01/04/16-30/06/16	0	0	
6	Cadmium in WWTP Effluent	01/04/16-30/06/16	0	0	
7	Cyanide in WWTP Effluent	01/04/16-30/06/16	0	0	
8	Total Phosphorus in WWTP Effluent	01/04/16-30/06/16	0	0	
9	Total Nitrogen in WWTP Effluent	01/04/16-30/06/16	0	0	

Waste Management Records

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

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

Period	Amount of Gypsum Collected	Amount of Sludge Collected
April 2016	2865.3 MT	0 MT
May 2016	5803.3 MT	0 MT
June 2016	6709.9 MT	176.5 MT

4.3 Status of Environmental Licensing and Permitting

All permits/licenses obtained as of June 2016 are summarised in Table 4.3.

Table 4.3 Summary of Environmental Licensing and Permit Status

Description	Permit / Licence No.	Valid Period		Status
		From	To	
Environmental Permit for Units L4/5 FGD Plants Retrofit	EP-248/2006	25/04/2006	-	Valid
Environmental Permit for Unit L2 FGD Plant Retrofit	EP-287/2007	02/10/2007	-	Valid
Specified Process Licence issued under APCO	L-7-002(10)	01/01/2015	31/12/2016	Valid
WPCO discharge licence for Ash Lagoon	WT00011131-2011	15/12/2011	31/12/2016	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 were two (2) cases of environmental concern against the operation of Lamma Power Station as summarized in Table 4.4.

Table 4.4 Environmental Complaint(s) Received

Case Reference / Date, Time Received / Date, Time Concerned	Descriptions / Actions Taken	Conclusion / Status
<p><i>Reference:</i> EC160700205</p> <p><i>Received:</i> 16/06/2016 (16:23) from a District Councilor And 20/06/2016 (16:00) from EPD</p> <p><i>Concerned:</i> “Recently”</p>	<p>Some Lamma residents had recently raised concerns to the District Councilor and EPD against “white foam in the seawater near Lamma P/S”. HK Electric had reviewed the situation and provided the relevant information for the District Councilor and EPD to follow up with the concerned residents. There was no further enquiry.</p> <p><i>(Note: The foam was related to the CW outfalls at Lamma P/S and was not related to the retrofit projects.)</i></p>	<p>The foam was not an uncommon phenomenon and was not harmful to the environment. Anyway, HK Electric would exercise its best effort to suppress the foam. Case closed.</p>
<p><i>Reference:</i> EC160700206</p> <p><i>Received:</i> 24/06/2016 (16:42) from EPD</p> <p><i>Concerned:</i> 22/06/2016 (evening)</p>	<p>EPD had received a complaint against smoke emission from Chimney No.2 at Lamma P/S. After checking, HK Electric found no abnormal activity that might have caused abnormal smoke emission during the concerned period. The relevant opacity readings were also confirmed within applicable limit levels. HK Electric was of the view that the seen “smoke” was mainly related to a visual effect attributed to the meteorological conditions and direction of sunlight. EPD had been explained of the findings. There was no further enquiry.</p>	<p>Nothing abnormal was identified and the seen phenomenon appeared to be a misconception. Case closed.</p>

Table 4.5 Outstanding Environmental Complaint(s) Carried Over

Case Reference / Date, Time Received /	Descriptions / Actions Taken	Conclusion / Status
---	---------------------------------	------------------------

Date, Time Concerned		
Nil	N/A	N/A

5. FUTURE KEY ISSUES

5.1 Outage Plan for the coming 3 months

No major outage plan for the coming three months.

5.2 Key issues for the coming 3 months

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

Air Impact

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

Water Impact

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

6. CONCLUSION

Environmental monitoring was performed as required in the reporting period from April to June 2016. 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 were two (2) cases of environmental complaint concern against the operation of Lamma Power Station was received during the reporting period. One was about “white foam” which was considered not an uncommon phenomenon and not harmful to the environment. HK Electric would anyway exercise its best effort to suppress the foam. The other one was about “smoke emission” which was believed to be a misconception after an investigation. Both cases had been closed.

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

The environmental performance of the Projects was generally satisfactory.

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

A.1 Air

Source of Emissions	Parameters to be Monitored	Frequency	Concentration Not to Be Exceeded	Action	Limit	Proposed Action
Steam boilers L2, L4 and L5	Particulate	once/year	50 mg/Nm ³	-	50	ET Leader informs Generation Division at action level. Maintenance initiated. Temporary load shift until pollution control equipment repaired and reinstated. Report to EPD.
	Particulate (Opacity)	continuous	40% (bihourly)	35	40	
	SO ₂	continuous	200 mg/Nm ³ (1h)	190	200	
	NO _x expressed as NO ₂ (For L4 and L5 only)	continuous	615 mg/Nm ³ (1h)	585	615	
Fugitive dust (Coal, PFA, limestone, gypsum)	TSP	Once every six days.	260 (µg/m ³) (24 hours)	-	260	Investigation of sources and additional dust suppression to be employed at Limit level. Frequency of monitoring to be increased as necessary.
Chimney emissions	Ambient air SO ₂	Continuous at existing ambient air monitoring stations	800 (µg/m ³) (1h)	-	800	ET to review data on post-hoc basis and check for possible power station contribution.
	NO ₂		300 (µg/m ³) (1h)	-	300	

A.2 Water

Source of Discharges	Parameters to be Monitored	Frequency	Concentration Not to Be Exceeded	Action	Limit	Proposed Action
FGD Wastewater Treatment Plant	pH	Daily	6-9	-	6-9	If pH exceeds limit level, consideration to be given to adjust chemical dosing. ET Leader inform Generation Division and investigation be initiated to identify and remedy cause.
	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 Total Suspended Particulate Monitoring at Lamma Power Station

Date: Second Quarter of 2016 (April - June)

DATE	TSP CONCENTRATION ($\mu\text{g}/\text{m}^3$)		WEATHER INFORMATION (from Hong Kong Observatory)		
	Reservoir	East Gate	Mean Wind Speed (km/hr)	Prevailing Wind Dir. ($^{\circ}$)	Mean R.H. (%)
03/04/2016	33	33	9.2	050	87
09/04/2016	25	25	17.3	200	86
15/04/2016	33	29	20.0	030	97
21/04/2016	71	44	7.3	030	87
27/04/2016	42	43	20.2	230	85
03/05/2016	25	35	11.8	220	86
09/05/2016	25	21	16.3	170	81
15/05/2016	29	31	15.7	050	85
21/05/2016	41	43	25.9	230	88
27/05/2016	22	36	32.5	130	89
02/06/2016	31	55	27.4	230	79
08/06/2016	20	31	11.3	120	89
14/06/2016	51	48	30.0	220	81
20/06/2016	20	27	12.0	170	78
26/06/2016	24	19	11.9	160	75

TSP ($\mu\text{g}/\text{m}^3$)

Action Level -
 Limit Level 260

Equipment used: Reservoir & East Gate : High Volume Air Sampler

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

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

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) #	NOx concentration (mg/Nm3) #	Opacity (%)
1/4/2016	27	432	19
2/4/2016	46	467	16
3/4/2016	37	422	21
4/4/2016	46	436	21
5/4/2016	52	403	22
6/4/2016	39	396	21
7/4/2016	35	413	22
8/4/2016	27	407	23
9/4/2016	22	449	19
10/4/2016	28	465	19
11/4/2016	31	504	20
12/4/2016	35	398	21
13/4/2016	33	437	21
14/4/2016	37	385	21
15/4/2016	39	437	22
16/4/2016	*	*	*
17/4/2016	*	*	*
18/4/2016	34	385	23
19/4/2016	40	438	19
20/4/2016	26	406	21
21/4/2016	28	422	19
22/4/2016	35	389	17
23/4/2016	38	431	17
24/4/2016	36	416	15
25/4/2016	45	376	19
26/4/2016	32	524	17
27/4/2016	27	435	17
28/4/2016	29	414	15
29/4/2016	35	501	16
30/4/2016	40	382	15

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/5/2016	33	392	16
2/5/2016	34	370	17
3/5/2016	25	426	16
4/5/2016	22	396	15
5/5/2016	19	417	18
6/5/2016	20	432	14
7/5/2016	20	453	12
8/5/2016	22	504	12
9/5/2016	18	475	16
10/5/2016	20	420	13
11/5/2016	33	441	14
12/5/2016	35	475	15
13/5/2016	33	426	16
14/5/2016	19	412	14
15/5/2016	25	472	14
16/5/2016	43	415	15
17/5/2016	32	432	15
18/5/2016	39	421	18
19/5/2016	38	401	22
20/5/2016	40	445	25
21/5/2016	27	542	18
22/5/2016	27	462	15
23/5/2016	27	467	14
24/5/2016	30	431	14
25/5/2016	32	461	16
26/5/2016	31	493	18
27/5/2016	31	481	21
28/5/2016	35	404	20
29/5/2016	57	429	18
30/5/2016	95	387	26
31/5/2016	73	501	27

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/6/2016	96	460	24
2/6/2016	69	447	24
3/6/2016	62	401	23
4/6/2016	*	*	*
5/6/2016	*	*	*
6/6/2016	*	*	*
7/6/2016	50	388	23
8/6/2016	29	410	21
9/6/2016	15	393	16
10/6/2016	28	398	21
11/6/2016	25	423	19
12/6/2016	17	385	19
13/6/2016	28	404	21
14/6/2016	15	344	20
15/6/2016	34	321	21
16/6/2016	21	357	19
17/6/2016	23	409	22
18/6/2016	18	362	22
19/6/2016	17	401	20
20/6/2016	44	363	24
21/6/2016	21	399	23
22/6/2016	21	414	23
23/6/2016	20	390	22
24/6/2016	55	406	21
25/6/2016	67	425	22
26/6/2016	74	433	21
27/6/2016	41	465	21
28/6/2016	44	368	19
29/6/2016	26	420	19
30/6/2016	24	390	20

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

* - Unit L5 was not on load.

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

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) #	NOx concentration (mg/Nm3) #	Opacity (%)
1/4/2016	33	479	29
2/4/2016	11	377	20
3/4/2016	*	*	*
4/4/2016	*	*	*
5/4/2016	14	479	24
6/4/2016	30	314	25
7/4/2016	26	436	27
8/4/2016	13	287	26
9/4/2016	16	497	21
10/4/2016	7	467	18
11/4/2016	13	406	22
12/4/2016	20	435	28
13/4/2016	17	463	26
14/4/2016	31	462	27
15/4/2016	34	502	26
16/4/2016	36	428	29
17/4/2016	39	390	28
18/4/2016	40	371	26
19/4/2016	21	419	24
20/4/2016	28	466	27
21/4/2016	45	405	29
22/4/2016	33	448	27
23/4/2016	36	420	27
24/4/2016	33	410	23
25/4/2016	58	412	28
26/4/2016	57	380	25
27/4/2016	26	368	24
28/4/2016	31	393	24
29/4/2016	37	392	24
30/4/2016	19	429	21

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) #	NOx concentration (mg/Nm3) #	Opacity (%)
1/5/2016	17	365	23
2/5/2016	23	377	26
3/5/2016	30	377	26
4/5/2016	25	419	25
5/5/2016	FGD Plant Outage	386	23
6/5/2016	FGD Plant Outage	441	22
7/5/2016	FGD Plant Outage	493	20
8/5/2016	FGD Plant Outage	453	20
9/5/2016	FGD Plant Outage	449	22
10/5/2016	13	494	20
11/5/2016	33	499	22
12/5/2016	20	511	23
13/5/2016	21	520	25
14/5/2016	12	313	24
15/5/2016	24	335	23
16/5/2016	21	424	24
17/5/2016	11	429	19
18/5/2016	19	375	20
19/5/2016	21	355	23
20/5/2016	25	368	30
21/5/2016	23	431	37
22/5/2016	26	449	25
23/5/2016	42	483	24
24/5/2016	53	473	29
25/5/2016	49	434	24
26/5/2016	22	473	23
27/5/2016	26	477	25
28/5/2016	*	*	*
29/5/2016	*	*	*
30/5/2016	26	339	29
31/5/2016	84	410	29

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/6/2016	97	398	29
2/6/2016	53	397	29
3/6/2016	53	449	31
4/6/2016	63	311	31
5/6/2016	69	410	24
6/6/2016	72	417	29
7/6/2016	83	422	28
8/6/2016	61	375	24
9/6/2016	23	386	18
10/6/2016	37	325	27
11/6/2016	23	320	21
12/6/2016	36	314	25
13/6/2016	39	322	30
14/6/2016	26	298	25
15/6/2016	26	302	25
16/6/2016	9	352	23
17/6/2016	17	369	22
18/6/2016	14	360	22
19/6/2016	17	467	23
20/6/2016	62	363	28
21/6/2016	27	343	24
22/6/2016	20	396	31
23/6/2016	28	385	28
24/6/2016	64	379	28
25/6/2016	82	381	27
26/6/2016	55	356	24
27/6/2016	53	300	25
28/6/2016	78	297	24
29/6/2016	26	354	19
30/6/2016	59	305	24

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

* - Unit L4 was not on load.

B.2.3 Monthly Summary of Stack SO₂ for Unit L2

Date	Daily Maximum	
	SO ₂ concentration (mg/Nm ³) [#]	Opacity (%)
1/4/2016	*	32
2/4/2016	28	15
3/4/2016	*	*
4/4/2016	*	*
5/4/2016	18	14
6/4/2016	15	19
7/4/2016	15	18
8/4/2016	11	17
9/4/2016	15	16
10/4/2016	37	19
11/4/2016	24	15
12/4/2016	17	16
13/4/2016	25	17
14/4/2016	32	16
15/4/2016	51	18
16/4/2016	53	18
17/4/2016	55	20
18/4/2016	42	16
19/4/2016	20	14
20/4/2016	22	12
21/4/2016	33	16
22/4/2016	56	15
23/4/2016	59	14
24/4/2016	64	17
25/4/2016	72	23
26/4/2016	53	26
27/4/2016	52	26
28/4/2016	59	24
29/4/2016	73	25
30/4/2016	61	19

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) [#]	Opacity (%)
1/5/2016	*	*
2/5/2016	*	*
3/5/2016	80	19
4/5/2016	56	18
5/5/2016	20	20
6/5/2016	23	17
7/5/2016	35	17
8/5/2016	53	23
9/5/2016	62	26
10/5/2016	68	26
11/5/2016	87	26
12/5/2016	64	25
13/5/2016	67	30
14/5/2016	80	27
15/5/2016	74	20
16/5/2016	77	20
17/5/2016	68	24
18/5/2016	68	19
19/5/2016	67	15
20/5/2016	67	20
21/5/2016	73	16
22/5/2016	64	17
23/5/2016	59	21
24/5/2016	63	26
25/5/2016	56	14
26/5/2016	60	13
27/5/2016	66	12
28/5/2016	82	16
29/5/2016	69	17
30/5/2016	79	25
31/5/2016	64	20

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) [#]	Opacity (%)
1/6/2016	67	15
2/6/2016	107	15
3/6/2016	75	15
4/6/2016	68	16
5/6/2016	80	14
6/6/2016	65	14
7/6/2016	51	15
8/6/2016	74	14
9/6/2016	*	*
10/6/2016	59	16
11/6/2016	47	16
12/6/2016	40	17
13/6/2016	49	15
14/6/2016	44	21
15/6/2016	53	16
16/6/2016	67	12
17/6/2016	53	14
18/6/2016	72	14
19/6/2016	*	*
20/6/2016	76	13
21/6/2016	84	13
22/6/2016	74	13
23/6/2016	67	13
24/6/2016	65	13
25/6/2016	70	12
26/6/2016	*	*
27/6/2016	71	13
28/6/2016	108	13
29/6/2016	56	12
30/6/2016	57	16

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

* - Unit L2 was not on load.

B.2.4 Summary of Annual Stack Particulate Sampling

Unit	Date	Results (mg/Nm ³)
L4	27/06/2016	12

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

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

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

STATION : VICTORIA PEAK
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2016
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	41	75	59	63	20	19	13	6	5	8	17	10	6	5	8	10	5	4	3	1	1	0	0	0	16
2	0	0	0	0	0	0	0	0	0	1	1	1	0	1	5	4	2	1	1	0	0	0	0	0	1
3	0	0	0	0	0	0	0	0	0	0	0	0	1	3	2	1	3	2	1	1	1	1	0	0	1
4	0	0	0	0	0	0	1	0	0	2	1	1	2	3	3	3	2	2	3	1	1	0	0	4	1
5	0	2	6	2	1	0	0	0	0	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1
6	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	1	1	1	1	1	2	1	1
7	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	3	2	2	2	2	1	1	1	1	1
8	1	0	1	0	0	0	1	0	0	1	0	2	2	4	3	3	3	5	2	3	3	3	1	2	2
9	2	2	2	2	2	2	2	2	1	2	4	4	3	3	3	5	3	4	3	3	3	3	2	4	3
10	3	2	2	3	2	2	2	3	2	2	2	2	1	1	1	1	1	1	2	2	1	1	2	1	2
11	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	1	1	1	1	1	2	2	2	1	1	1	0	1	2	5	1	2	1	1	0	1	1	1	0	1
14	0	0	0	0	0	0	1	1	0	0	0	0	1	1	2	2	2	2	2	1	1	1	1	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	0	1	1	1	1	2	2	1	1	1	2	2	2	2	2	2	2	1	1	2	1	1	1
17	1	1	1	0	0	1	1	0	1	0	1	2	2	1	2	1	2	1	1	1	1	2	27	2	2
18	1	2	2	1	1	1	0	1	1	1	2	2	3	2	2	3	7	6	2	2	2	2	2	1	2
19	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
20	0	0	1	0	1	1	0	0	1	1	1	1	1	2	2	2	5	1	1	1	1	1	1	0	1
21	0	0	0	0	0	0	0	0	6	32	18	8	3	14	40	15	9	5	2	1	1	2	4	0	7
22	0	0	0	0	0	0	0	0	0	0	0	2	12	1	2	0	0	0	2	1	0	1	0	2	1
23	7	2	1	1	1	2	2	2	4	3	3	3	3	3	5	6	4	3	2	4	9	3	7	2	3
24	1	5	7	4	4	2	2	2	2	2	0	3	2	3	2	1	0	1	0	0	0	0	0	1	2
25	1	1	4	1	0	2	1	1	2	18	19	15	19	5	2	3	3	3	1	2	2	2	1	1	5
26	1	1	2	1	1	2	2	1	2	2	2	3	3	2	2	3	2	2	T	T	T	T	T	T	2
27	T	T	T	T	T	T	T	T	T	T	T	8	2	1	4	5	8	13	50	10	20	3	2	3	
28	2	2	6	7	5	7	8	9	10	5	5	7	7	4	3	4	4	3	3	5	5	5	5	5	5
29	6	5	4	4	4	3	2	3	2	2	2	2	3	3	3	2	2	5	3	2	4	2	2	4	3
30	3	4	3	3	3	3	3	4	4	4	5	6	6	6	6	6	5	4	4	4	4	3	2	2	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	5	7	18	27	0	-	75	0	-	16	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: APRIL

STATION : VICTORIA PEAK
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2016
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	8	40	39	73	36	22	8	22	12	22	57	30	13	14	13	22	23	28	6	5	0	0	0	0	21
2	0	0	0	0	0	0	0	5	25	44	53	24	13	19	28	23	33	22	14	3	4	2	0	0	13
3	0	0	0	0	0	0	0	0	0	2	3	1	1	4	2	2	18	21	6	1	3	0	0	0	3
4	0	0	0	0	0	0	0	0	0	3	1	0	0	0	1	2	2	4	9	4	6	2	0	38	3
5	0	23	41	5	0	0	0	3	1	3	1	4	0	1	0	1	0	1	0	0	1	0	0	0	4
6	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	1	4	3	2	0	0	1	0	1	1
7	0	M	0	0	0	0	1	1	2	0	0	0	0	0	3	3	3	5	5	7	3	3	2	0	2
8	0	0	0	0	0	0	1	0	3	1	1	1	1	1	2	3	0	4	5	5	8	7	4	2	2
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	24	13	7	3	1	0	1	1	1	2
10	0	0	0	0	0	0	0	0	0	5	4	2	0	1	0	1	0	1	6	9	2	0	0	0	1
11	0	0	0	0	0	0	0	1	45	28	10	5	5	4	5	7	14	12	4	0	0	0	0	0	6
12	0	0	0	0	0	0	0	0	0	3	10	8	2	4	7	9	24	9	0	1	0	0	1	3	3
13	0	0	0	0	0	0	0	0	0	1	4	1	0	3	23	11	19	11	11	7	3	3	4	1	4
14	0	0	0	0	0	0	0	3	3	1	0	1	1	0	5	2	5	2	1	1	0	0	0	1	1
15	0	0	0	0	0	0	0	11	21	22	45	41	19	7	8	7	13	3	4	2	6	0	0	1	9
16	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	1	1	2	2	1	11	1	1	1
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	0	0
18	0	0	2	0	0	2	2	31	18	30	62	66	65	53	62	77	74	62	76	54	13	0	0	1	31
19	0	0	0	0	0	0	0	0	3	3	1	0	0	3	7	9	1	0	0	0	0	0	0	0	1
20	0	0	0	0	0	0	0	0	24	34	38	10	3	7	19	19	31	14	9	0	0	0	0	0	9
21	2	M	0	0	0	0	0	0	11	25	11	6	1	8	31	21	13	14	5	1	0	1	21	0	7
22	0	0	0	0	0	0	0	0	2	1	0	7	21	2	30	14	11	5	11	6	5	14	2	5	6
23	1	5	0	0	0	0	0	0	2	0	0	1	0	0	1	7	14	8	1	15	44	19	65	10	8
24	1	50	69	17	40	6	0	1	6	4	1	21	22	13	6	3	12	10	5	0	0	0	8	4	12
25	0	0	28	0	0	0	0	0	6	31	25	14	25	2	2	2	5	9	1	0	0	0	0	0	6
26	0	0	1	0	0	0	0	0	1	1	1	3	1	2	0	0	1	0	T	T	T	T	T	T	1
27	T	T	T	T	T	T	T	T	T	T	T	34	7	0	5	6	22	50	109	29	33	3	0	3	
28	0	0	6	14	2	20	39	42	45	39	24	27	41	54	47	58	56	38	57	11	0	2	0	1	26
29	0	0	0	0	0	0	0	0	0	3	11	0	0	2	0	1	10	9	1	0	0	0	0	0	2
30	0	0	0	0	0	0	0	0	0	2	3	0	0	0	3	3	7	0	0	0	0	0	0	0	1

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
6	1	7	1	23	39	57	65	0	-	109	0	-	31	4	97	0

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH: APRIL

YEAR : 2016

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	3	1	3	2	4	3	7	4	5	19	25	21	17	16	22	11	6	11	6	3	2	1	1	2	8
2	2	1	1	1	0	0	0	2	1	1	2	1	1	0	0	1	0	1	1	0	0	0	0	1	1
3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	1	3	1	1
4	0	0	0	0	0	0	1	3	2	2	3	4	1	0	0	4	1	1	2	1	0	1	1	1	1
5	2	1	1	0	0	0	2	1	1	1	0	1	1	1	1	1	2	0	1	0	0	0	0	0	1
6	0	0	0	0	0	0	0	2	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
7	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
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	6	11	12	9	13	2
9	8	5	3	3	1	5	2	1	1	4	3	6	4	5	10	6	3	12	9	6	5	5	9	9	5
10	8	12	7	10	5	6	7	4	4	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	1	5	2	2	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	0	0	4	7	4	4	2	2	1	1	0	0	1	1	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	1	7	13	8	6	5	3	4	2	2	3	4	1	8	7	4	2	3
17	1	1	1	0	1	1	5	2	2	2	1	3	4	5	8	4	4	4	5	4	7	2	2	10	3
18	7	5	1	1	0	0	0	3	0	2	0	3	18	23	9	2	0	0	1	1	1	0	1	2	3
19	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0
20	0	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	0	1	2	1	4	2	1
21	10	14	2	0	0	0	0	0	1	1	2	2	9	2	1	5	5	4	5	9	6	5	3	2	4
22	1	1	1	2	1	1	1	0	2	0	0	3	9	6	4	4	0	1	6	8	5	2	2	T	3
23	T	T	T	T	T	T	T	T	T	T	3	4	5	3	5	8	10	6	4	8	7	6	5	5	
24	3	2	2	5	10	9	10	8	10	5	11	18	14	3	2	7	4	4	2	1	1	1	3	3	6
25	1	3	2	1	10	25	10	13	12	18	15	32	31	2	4	8	1	3	6	10	13	8	10	12	10
26	7	5	6	4	3	9	7	11	8	8	10	13	7	7	8	8	7	5	7	8	7	6	4	4	7
27	5	7	6	2	1	1	4	6	8	11	13	31	23	20	18	13	13	10	6	8	4	9	9	10	10
28	20	11	10	6	6	3	2	2	3	2	2	1	0	0	0	1	1	5	5	4	4	4	3	5	4
29	4	4	3	3	2	1	1	1	0	1	1	1	1	0	0	0	2	1	0	0	2	1	1	2	1
30	1	2	2	2	2	2	3	3	3	3	3	5	5	4	3	3	3	2	3	3	2	1	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	
3	1	3	1	8	11	18	22	0	-	32	0	-	10	3	98	0	

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH: APRIL

YEAR : 2016

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	1	3	2	15	18	42	35	38	43	45	42	33	34	42	25	19	29	31	14	10	6	4	7	23
2	5	3	1	0	1	0	0	10	6	8	16	14	8	2	4	7	6	4	4	0	0	0	2	8	5
3	7	1	1	1	3	0	3	6	8	2	4	2	1	3	6	4	15	12	13	19	19	12	19	6	7
4	3	1	2	1	1	2	7	10	7	6	7	6	5	2	4	20	19	15	37	31	13	33	20	18	11
5	56	26	26	15	8	8	9	8	20	11	7	13	10	13	17	16	21	15	22	13	14	6	8	5	15
6	4	M	3	2	2	4	11	19	15	10	5	6	8	7	6	5	7	8	7	4	8	10	7	6	7
7	6	6	6	7	5	3	9	15	15	10	15	7	9	8	10	15	15	13	13	12	12	12	17	13	11
8	11	5	7	9	5	4	6	14	12	8	7	5	4	6	5	8	23	12	30	37	39	38	34	38	15
9	28	26	26	20	15	25	15	16	13	19	M	16	13	13	22	16	18	31	23	20	19	16	27	22	20
10	19	23	16	19	9	12	18	9	10	18	13	30	18	26	21	42	30	34	18	6	2	10	4	2	17
11	0	0	0	0	0	0	0	1	2	4	0	0	0	0	0	0	2	0	0	0	1	0	3	3	1
12	1	0	0	0	0	0	1	3	3	3	1	1	1	1	2	3	5	6	1	1	0	1	1	8	2
13	7	2	0	1	3	6	20	14	41	40	52	51	56	61	74	58	41	15	11	12	11	6	3	2	24
14	0	0	0	0	0	0	7	8	8	11	8	11	13	14	19	21	15	21	14	8	8	11	18	9	9
15	0	1	3	5	1	1	2	4	7	6	3	6	8	6	5	4	4	0	0	2	1	2	3	4	3
16	0	0	2	3	2	1	4	9	12	14	5	7	2	1	2	1	6	5	6	5	21	21	17	15	7
17	12	13	15	11	11	13	24	13	14	12	10	10	5	6	7	3	3	8	7	8	1	5	23	10	
18	18	16	19	24	15	20	19	49	53	67	42	65	91	73	54	20	12	10	17	8	8	6	8	3	30
19	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
20	0	M	0	0	0	0	0	1	1	1	3	0	0	0	0	2	6	14	9	0	3	1	4	6	2
21	19	66	19	8	1	0	5	9	12	11	14	8	10	9	17	41	12	20	48	41	28	20	17	15	19
22	9	6	8	9	6	7	6	6	5	19	22	24	19	29	44	39	13	7	27	16	8	10	35	T	16
23	T	T	T	T	T	T	T	T	T	T	6	8	12	7	11	16	20	14	16	23	14	7	8	13	
24	9	3	2	4	12	8	13	14	20	16	26	33	29	18	23	15	11	21	10	7	5	2	2	7	13
25	6	1	0	2	24	40	23	24	17	12	5	20	18	0	2	16	2	2	8	18	18	11	13	15	12
26	15	6	7	4	3	12	9	8	5	8	20	25	8	10	5	10	8	4	12	11	9	10	4	5	9
27	5	10	13	7	3	4	12	16	19	25	30	49	45	39	40	27	22	18	18	14	2	4	11	30	19
28	38	25	31	22	37	24	29	28	20	13	25	26	21	24	18	36	9	16	18	13	8	11	5	16	21
29	10	9	6	5	6	2	5	8	9	6	5	6	5	4	9	7	10	10	5	5	7	6	4	7	7
30	3	2	2	1	2	1	2	3	3	5	5	5	4	5	4	5	5	5	5	5	4	4	3	5	4

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
9	8	12	8	27	39	49	58	0	-	91	0	-	30	3	98	0

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

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

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH: APRIL

YEAR : 2016

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	9	7	5	5	4	5	9	18	19	21	19	12	19	11	11	9	4	3	2	1	1	1	5	9
2	13	8	6	8	4	12	13	9	4	3	6	13	7	5	12	3	2	2	2	2	3	10	12	9	7
3	27	22	21	26	15	11	5	5	4	3	2	3	3	6	4	2	4	4	10	2	1	1	1	2	8
4	1	1	1	1	1	1	2	3	9	8	5	3	3	3	3	11	3	3	4	2	1	2	2	4	3
5	1	1	1	1	1	1	2	7	12	10	6	2	2	1	1	1	1	1	1	1	1	1	1	3	3
6	1	1	1	1	1	1	0	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	3	1	2	2	2	1	1	1	1	1	3	3	2	1	1	1	1	1	0	1
8	0	0	1	1	2	1	1	3	2	1	1	4	2	6	9	3	10	9	6	6	10	14	7	7	4
9	5	6	3	3	3	4	4	5	5	7	8	9	8	6	6	9	5	7	6	6	4	6	5	6	6
10	7	5	5	6	7	5	6	4	3	3	2	1	4	4	7	8	8	10	10	11	19	14	10	15	7
11	18	11	11	15	21	15	13	17	18	13	5	3	3	2	2	2	1	1	1	1	1	1	1	1	7
12	1	1	0	0	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	2	2	1	1	6	1
13	2	4	2	1	1	1	2	1	1	1	1	2	2	3	4	4	3	3	6	6	7	10	9	7	3
14	16	16	12	10	9	6	6	5	4	3	2	4	3	3	4	6	5	5	6	4	3	3	3	2	6
15	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	D	D	0	0	0	0	0	0	1	1
16	0	0	0	1	1	0	1	2	3	4	3	3	3	3	3	3	3	2	2	2	2	2	2	3	2
17	2	2	1	2	1	1	2	2	2	2	3	5	7	4	4	4	3	4	5	4	4	3	2	4	3
18	3	3	3	2	3	3	4	9	4	4	3	4	4	20	31	31	10	12	9	10	8	4	3	2	8
19	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	4	6	14	21	17	13	11	5	2	2	1	3	14	5
21	26	12	6	8	7	6	7	24	62	51	28	13	10	9	9	10	6	3	8	11	15	12	10	6	15
22	5	6	5	3	2	2	2	3	3	2	1	3	5	4	4	4	2	2	5	6	3	3	2	4	3
23	3	3	2	2	1	2	3	3	4	4	3	3	5	3	6	7	5	5	3	2	3	3	2	3	3
24	3	2	2	3	4	4	6	6	9	8	8	22	6	8	3	3	3	4	2	2	2	2	1	3	5
25	5	5	5	3	3	13	4	4	6	12	8	8	10	7	4	6	3	3	2	4	4	4	3	3	5
26	3	3	3	2	2	3	4	3	6	6	6	8	6	3	4	4	2	2	3	2	3	3	2	4	4
27	3	3	2	1	1	1	2	3	5	5	6	6	4	5	7	8	7	5	8	7	7	10	11	9	5
28	7	8	7	4	4	4	5	14	21	21	12	6	6	7	19	42	23	13	6	4	3	2	2	3	10
29	5	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	2
30	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	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		
3	3	5	3	10	15	21	26	0	-	62	0	-	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 : VICTORIA ROAD SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH: APRIL

YEAR : 2016

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	34	31	22	5	10	12	30	39	35	37	38	41	27	33	23	22	25	26	23	13	5	4	21	42	25
2	44	33	31	27	6	25	35	32	10	12	36	35	32	27	26	15	23	12	23	41	M	43	40	36	28
3	38	33	30	34	29	26	18	17	23	12	9	8	6	7	9	4	7	18	36	29	14	17	9	8	18
4	9	1	2	2	1	2	11	12	14	13	8	4	4	3	2	10	8	12	17	17	11	28	33	15	10
5	8	4	8	12	8	11	23	31	35	33	23	9	7	5	3	6	7	8	10	8	15	15	9	15	13
6	5	2	2	4	1	0	3	5	6	5	5	5	4	4	5	8	12	12	11	16	14	21	19	3	7
7	0	0	0	0	0	10	9	19	14	10	4	3	5	5	6	11	10	14	8	7	3	17	6	3	7
8	1	2	6	2	12	7	20	22	14	9	4	5	2	3	9	4	9	9	15	19	23	19	13	15	10
9	10	11	5	2	2	8	12	15	13	11	10	9	8	5	4	14	15	22	18	16	12	15	10	13	11
10	12	4	6	10	7	4	10	7	1	6	6	11	34	42	46	42	50	53	48	45	45	46	43	39	26
11	36	32	30	30	31	33	32	35	34	37	19	7	11	7	8	8	7	7	5	1	0	0	1	0	17
12	0	0	0	0	0	0	1	3	5	4	3	4	2	1	2	3	10	11	4	17	5	2	2	32	5
13	7	23	3	0	0	1	9	7	17	37	36	61	52	55	61	58	51	49	45	45	42	38	38	33	32
14	34	33	30	29	31	22	29	29	34	31	19	22	13	13	20	21	20	16	17	8	4	1	6	7	20
15	5	0	0	0	0	0	0	4	4	4	3	4	6	4	5	D	14	14	13	11	9	8	8	11	6
16	10	9	9	9	10	10	16	24	25	24	20	16	18	18	17	15	17	16	26	25	23	22	20	21	18
17	20	16	11	14	12	13	19	17	19	16	19	20	21	16	16	14	14	17	20	19	20	15	16	18	17
18	16	14	18	18	24	29	39	60	47	43	42	45	57	71	71	66	44	50	55	57	46	26	18	13	40
19	11	9	8	7	9	8	12	17	17	16	15	15	15	16	17	20	21	18	17	13	12	12	12	10	14
20	9	M	8	7	8	7	10	14	15	18	20	32	37	54	65	65	53	49	61	29	21	19	36	53	30
21	62	50	44	48	41	38	40	49	48	42	38	32	28	28	24	30	25	28	48	59	54	49	45	31	41
22	31	28	20	11	12	14	25	32	23	26	34	53	35	31	57	47	42	30	41	40	22	25	16	38	31
23	25	29	16	12	10	19	25	27	27	24	20	20	25	22	27	34	31	31	23	22	29	25	32	28	24
24	21	12	22	14	18	20	30	37	35	37	39	52	44	41	32	26	26	39	32	20	22	19	18	38	29
25	39	24	25	10	16	28	29	30	25	29	19	25	29	23	22	35	31	29	31	34	29	25	23	20	26
26	20	14	15	9	12	19	26	27	29	26	22	23	24	18	17	19	17	16	19	16	18	16	17	19	19
27	14	13	16	11	11	12	20	21	28	34	40	39	27	26	32	33	46	26	54	50	44	49	45	31	30
28	27	24	19	17	27	29	38	42	42	38	35	32	51	62	74	79	72	59	62	36	22	26	24	22	40
29	42	16	14	12	12	13	15	19	20	20	21	18	19	18	18	20	24	27	24	17	18	15	14	13	19
30	14	12	11	11	11	11	15	16	18	18	20	21	20	20	20	20	19	18	18	17	15	14	13	14	16

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
16	18	21	18	42	50	60	65	0	-	79	5	-	41	2	100	0

NOTES:

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

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

STATION : POK FU LAM
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2016
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	34	9	3	3	3	5	8	29	32	29	33	27	26	13	18	13	5	3	1	0	0	5	14	14
2	24	20	16	14	27	38	32	17	26	9	11	34	10	12	24	8	3	9	4	4	7	20	25	18	17
3	49	33	47	74	42	34	22	17	15	7	4	5	7	9	6	4	11	11	12	4	2	2	2	2	18
4	1	1	1	1	1	1	3	2	10	9	4	4	5	6	6	13	3	2	7	2	2	3	3	7	4
5	2	2	1	2	2	2	2	4	11	18	15	5	1	1	1	1	2	1	1	2	2	5	9	21	5
6	12	8	8	7	4	1	0	0	1	1	0	0	0	0	0	1	1	0	0	0	1	2	2	0	2
7	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	2	2	2	0	0	0	0	0	0	0
8	0	1	1	0	3	0	2	7	2	1	1	3	3	6	11	3	8	8	5	9	10	17	6	5	5
9	5	6	3	3	3	4	7	6	4	8	6	9	8	7	8	14	5	7	7	6	4	7	6	7	6
10	7	4	4	6	7	4	4	4	3	3	2	2	3	9	7	7	9	11	10	17	37	30	23	23	10
11	19	8	7	16	31	19	17	24	36	14	10	3	3	3	1	1	0	0	0	0	0	0	0	1	9
12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	3	1	1	1	1	4	1
13	0	8	1	0	1	2	3	2	1	2	0	2	2	2	4	3	4	10	9	12	11	8	8	8	4
14	18	23	19	15	14	14	14	12	6	1	1	6	6	4	3	4	3	2	3	1	1	0	0	1	7
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	1	1	1	1	1	1	2	4	5	6	5	5	5	6	7	5	4	5	10	4	2	3	3	1	4
17	0	0	0	0	0	0	0	0	0	0	2	7	8	4	4	4	4	5	5	4	3	6	10	18	4
18	5	5	5	3	5	5	4	8	5	4	3	8	4	20	44	68	22	19	15	19	17	20	14	3	14
19	2	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	0	0	0	0	0	1
20	0	0	0	0	0	0	0	0	0	0	3	18	25	26	32	33	24	18	9	2	1	1	3	15	9
21	33	11	6	21	14	11	9	40	143	157	69	31	8	8	15	13	13	12	16	17	24	17	13	5	29
22	4	4	4	1	1	0	1	1	2	2	0	1	2	3	2	4	0	0	5	4	2	4	1	6	2
23	4	2	0	0	0	1	2	2	6	4	4	4	6	3	6	9	6	9	4	3	5	4	3	6	4
24	4	2	3	5	7	6	7	8	10	5	9	46	7	11	4	3	2	6	4	3	2	2	2	2	7
25	2	3	4	1	1	7	2	2	5	8	8	11	19	10	3	5	6	4	2	4	5	5	4	5	5
26	6	5	7	3	3	5	6	5	8	8	9	11	8	8	4	9	5	4	4	4	5	5	5	9	6
27	5	5	4	3	3	2	4	7	7	14	10	14	7	6	15	15	12	9	21	13	21	12	22	31	11
28	28	13	8	7	8	7	9	20	37	46	30	11	9	4	12	79	48	30	13	5	4	4	4	7	18
29	12	5	5	4	4	3	3	3	2	2	2	2	3	2	2	2	2	4	2	1	2	2	2	3	3
30	2	2	2	3	2	2	2	3	3	3	4	5	5	4	3	3	3	2	3	3	2	1	1	1	3

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
5	4	7	4	18	28	38	48	0	-	157	0	-	29	3	100	0

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

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

STATION : POK FU LAM
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2016
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	44	57	28	6	7	18	35	69	70	74	72	76	59	58	44	46	45	49	34	17	10	15	69	97	46
2	93	86	77	65	78	69	74	65	71	51	72	75	59	57	66	47	49	73	60	83	95	95	85	88	72
3	93	87	83	88	80	74	53	52	49	28	24	18	16	18	20	15	39	46	69	37	15	11	7	18	43
4	16	9	11	10	4	6	16	15	31	28	17	12	11	14	12	21	15	18	41	38	27	61	63	31	22
5	21	27	18	37	35	26	35	58	59	56	59	27	12	13	10	13	17	20	16	13	11	30	42	47	29
6	43	40	31	28	20	7	9	12	16	14	11	10	9	10	11	18	20	15	16	14	11	37	32	12	19
7	6	5	6	4	6	11	7	27	34	28	15	12	11	10	12	15	23	24	16	13	10	13	9	11	14
8	8	15	15	7	30	17	26	42	31	23	14	14	14	14	21	9	18	25	27	40	38	44	23	19	22
9	20	24	14	11	11	17	30	32	28	25	21	21	18	15	20	32	24	31	26	25	20	26	23	23	22
10	23	M	13	19	18	12	16	16	13	23	27	35	57	84	93	82	99	110	107	106	113	108	102	95	60
11	81	55	43	59	74	67	66	73	80	74	62	23	30	28	21	22	26	26	22	15	13	10	13	12	41
12	12	9	6	5	7	8	9	16	32	23	29	28	18	13	14	13	43	24	31	45	12	6	6	41	19
13	10	52	10	5	8	10	18	28	36	58	50	60	109	99	101	109	108	108	107	101	95	92	88	79	64
14	81	82	74	72	69	62	62	55	56	42	24	40	33	23	24	28	27	22	20	8	7	7	9	6	39
15	5	4	3	3	3	3	8	12	18	14	14	22	13	11	14	17	13	10	9	7	6	6	5	5	9
16	4	2	3	3	4	4	8	15	22	19	15	13	11	13	12	9	8	17	34	20	10	9	6	6	11
17	2	2	1	3	3	4	8	10	12	10	11	14	16	11	10	10	12	13	17	15	13	19	30	32	12
18	17	15	21	20	32	37	41	78	71	67	65	86	92	90	97	110	80	79	84	85	93	89	101	17	65
19	13	10	7	7	7	7	12	22	27	29	23	21	22	23	29	34	35	18	19	14	10	13	10	8	18
20	5	5	4	4	3	3	5	10	15	21	38	64	72	73	88	94	76	68	81	23	28	26	56	73	39
21	91	57	56	78	59	64	59	68	78	78	55	40	18	20	34	27	36	58	70	71	76	56	52	23	55
22	29	30	21	7	9	9	14	28	26	33	35	43	21	34	66	47	23	14	33	22	16	26	14	48	27
23	16	16	4	3	2	7	9	9	19	18	15	14	20	17	23	32	31	31	21	17	51	27	13	19	18
24	13	M	4	18	24	14	16	27	29	20	42	76	55	38	26	16	15	44	25	26	11	7	9	19	25
25	38	15	38	6	4	28	11	18	24	28	22	20	34	25	15	32	36	31	23	25	24	22	17	17	23
26	17	12	14	5	6	13	19	24	27	23	20	17	21	14	9	20	14	14	17	14	13	11	12	20	16
27	15	17	12	8	8	8	17	24	33	47	59	73	51	16	33	38	51	37	73	46	70	55	57	54	38
28	55	28	21	30	42	46	51	63	65	63	55	38	78	84	92	132	127	112	120	96	27	26	21	24	62
29	47	16	13	9	9	8	12	22	23	26	23	20	14	21	23	28	44	44	31	17	23	18	15	13	22
30	14	10	8	8	7	7	10	17	19	26	30	29	26	23	22	27	25	18	20	17	13	12	10	12	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		
23	22	32	22	76	91	105	109	1	-	132	9	-	72	2	100	0

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

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

STATION : AP LEI CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2016
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	10	6	3	0	0	4	5	11	24	31	37	29	13	42	17	21	7	4	0	0	0	0	0	0	11	
2	0	1	0	1	0	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0	0	12	1	
3	2	1	2	35	4	0	0	0	0	0	0	2	9	14	1	1	0	0	1	0	0	0	0	2	3	
4	0	0	0	0	1	2	6	12	8	5	3	1	6	2	9	28	0	4	6	9	0	4	6	5	5	
5	3	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	M	13	9	8	7	8	9	10	1	3	
8	1	0	0	0	0	0	0	0	0	0	3	13	3	14	10	5	31	15	19	18	52	26	19	25	11	
9	15	24	16	12	13	10	12	18	32	17	73	22	23	14	11	14	9	20	21	12	14	22	14	30	20	
10	29	10	21	23	19	14	22	8	4	4	1	0	6	15	21	19	3	4	6	5	3	6	4	3	10	
11	21	8	0	1	7	2	1	0	0	8	0	1	0	0	0	0	0	0	0	0	0	0	0	2	2	
12	2	1	1	1	2	1	1	1	2	2	2	1	2	1	1	0	1	1	0	1	1	1	1	1	34	3
13	0	1	1	0	2	6	8	7	0	2	5	13	5	3	3	1	0	0	0	0	2	1	0	1	3	
14	2	2	1	1	1	0	1	1	0	1	5	11	6	9	16	18	7	6	4	3	2	0	0	1	4	
15	2	1	1	1	1	1	1	1	0	2	1	0	0	1	1	1	0	1	1	0	1	1	1	0	1	
16	0	0	0	0	0	0	0	19	29	14	7	4	8	11	8	6	4	2	14	6	7	20	6	6	7	
17	3	2	1	1	1	2	5	2	4	3	6	22	31	12	11	11	7	17	16	9	8	3	6	13	8	
18	9	15	4	0	2	4	2	14	5	8	4	9	11	47	32	28	5	8	15	25	6	4	3	1	11	
19	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	2	0	
21	61	19	2	4	3	5	20	54	120	113	51	26	25	12	13	11	13	1	3	3	26	9	9	3	25	
22	3	14	16	1	0	1	1	2	7	1	0	3	9	9	8	3	1	4	19	18	5	3	0	16	6	
23	6	6	2	1	1	3	2	4	7	6	5	11	8	4	19	23	5	6	17	11	13	9	6	6	8	
24	7	5	5	9	26	26	21	29	37	14	8	14	3	11	8	6	4	4	2	6	3	3	4	10	11	
25	16	5	5	5	55	98	27	18	50	24	20	57	26	17	10	11	5	2	7	15	11	8	8	11	21	
26	9	6	10	2	4	11	9	3	22	20	18	25	18	7	15	16	5	3	9	8	10	5	5	7	10	
27	5	5	5	4	7	3	16	15	21	12	12	28	12	15	19	24	14	11	27	20	8	10	58	59	17	
28	29	21	28	11	11	13	12	94	87	30	9	4	8	5	39	92	39	5	6	7	5	5	4	3	24	
29	4	4	4	2	3	2	1	1	0	0	0	0	0	0	0	0	0	2	0	0	1	1	0	2	1	
30	3	3	3	2	1	3	3	4	4	4	4	5	4	4	4	4	3	3	2	3	3	2	2	1	3	

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
6	3	8	3	20	28	51	61	0	-	120	0	-	25	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 : AP LEI CHAU
POLLUTANT : NITROGEN DIOXIDE

MONTH: APRIL

YEAR : 2016
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	62	25	9	5	5	26	45	64	64	54	55	39	12	30	16	24	7	11	3	8	2	7	7	9	25
2	10	15	3	8	2	3	14	12	7	25	22	25	28	9	14	2	2	0	0	12	11	24	16	53	13
3	18	20	14	57	19	3	2	1	0	3	0	1	5	10	1	1	1	0	2	2	0	0	0	5	7
4	0	0	0	0	1	3	12	8	8	6	1	0	0	0	3	6	4	11	30	28	19	32	27	31	10
5	34	54	43	17	15	18	6	36	13	10	1	1	1	1	1	0	5	3	6	3	1	3	13	1	12
6	0	M	0	0	0	0	1	5	5	2	0	0	0	0	0	0	0	0	0	0	0	0	6	3	1
7	2	1	0	0	0	6	0	2	2	0	0	0	0	0	0	1	2	1	0	0	0	0	1	0	1
8	0	0	0	1	1	0	0	1	1	0	0	8	3	14	9	9	27	20	19	15	37	25	23	33	10
9	22	30	23	19	17	15	21	20	15	11	36	18	21	11	10	19	19	26	27	12	13	27	17	21	20
10	27	7	20	22	17	17	21	9	1	6	12	13	43	48	56	84	23	57	97	83	40	45	18	52	34
11	47	35	4	9	25	12	28	33	55	44	13	7	8	9	8	10	11	8	9	1	1	1	2	5	16
12	2	1	0	0	0	0	0	2	8	11	8	8	6	5	6	5	24	30	11	1	1	12	0	49	8
13	4	0	0	0	4	9	14	11	19	44	50	78	90	78	78	49	23	21	9	9	18	14	28	64	30
14	62	22	6	3	1	1	3	2	5	4	10	18	22	15	17	20	8	13	9	7	4	1	5	1	11
15	0	0	0	3	1	0	5	9	10	8	20	30	10	5	21	23	16	6	7	6	14	9	2	2	9
16	2	1	0	0	0	0	3	13	17	12	5	4	9	8	9	4	7	6	11	5	3	13	2	8	6
17	1	0	0	1	2	4	14	5	7	3	3	8	11	3	4	7	5	9	13	8	2	1	3	12	5
18	10	13	16	6	14	24	26	73	58	55	59	74	83	76	70	59	32	46	60	67	21	8	4	4	40
19	2	2	0	1	2	0	1	5	6	7	8	7	6	6	9	11	12	14	15	10	4	6	7	3	6
20	2	M	2	0	0	0	1	7	4	7	13	5	2	2	1	33	19	5	1	2	1	6	1	11	5
21	74	66	26	17	35	43	57	72	67	64	46	32	24	17	11	31	21	2	20	12	58	30	34	4	36
22	10	17	16	7	5	5	7	6	17	15	20	27	30	34	54	51	45	16	29	23	13	23	4	51	22
23	35	16	23	8	3	3	3	7	11	9	4	13	9	5	21	29	22	36	21	33	26	22	12	20	16
24	36	54	13	10	34	45	26	30	39	47	37	26	8	36	32	19	9	24	19	23	6	5	7	46	26
25	41	25	18	22	48	61	47	32	41	30	29	39	24	23	16	24	17	9	12	21	17	13	12	20	27
26	15	7	12	5	6	12	16	9	19	18	17	21	21	8	11	14	6	3	9	10	9	8	8	12	12
27	6	6	5	8	17	16	32	27	31	36	49	70	37	29	44	61	45	39	42	31	17	40	53	48	33
28	34	28	31	21	33	46	43	58	56	42	17	13	48	67	85	109	69	26	16	14	8	8	12	13	37
29	11	12	7	5	4	4	3	4	7	5	7	5	5	6	5	7	13	16	5	5	8	6	5	6	7
30	4	3	2	1	2	3	6	10	13	17	15	17	9	11	14	17	12	18	15	11	8	6	6	9	10

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
11	10	16	10	45	57	71	78	0	-	109	1	-	40	3	100	0

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

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

STATION : CHEUNG CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2016
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	5	5	5	4	4	7	7	22	32	50	48	24	48	28	34	27	28	13	8	4	3	3	4	18
2	6	5	5	5	6	7	3	3	6	7	8	9	10	5	5	5	3	3	6	5	3	4	6	8	6
3	11	10	7	6	5	6	3	4	5	6	10	6	3	4	7	13	12	9	10	22	16	9	11	8	8
4	10	11	10	13	10	13	18	24	27	24	35	41	28	27	32	41	36	16	3	2	2	2	4	2	18
5	3	2	2	5	7	9	9	9	10	14	11	7	7	8	6	7	8	5	5	5	4	4	4	4	6
6	4	4	4	3	2	2	2	4	8	10	6	5	4	4	4	3	5	4	3	3	3	8	3	4	4
7	4	5	5	4	3	3	3	3	4	5	7	8	9	18	18	13	11	8	5	5	4	5	5	5	7
8	8	8	8	6	5	6	6	4	5	8	9	14	26	26	15	21	29	23	24	24	25	18	12	9	14
9	8	8	5	2	2	3	2	4	10	19	17	11	11	8	7	15	15	6	4	3	2	4	4	9	7
10	10	8	9	9	6	3	5	4	7	10	6	4	2	1	2	8	11	10	5	8	8	11	6	6	7
11	4	3	5	3	3	5	4	5	5	8	4	5	7	5	5	5	3	3	2	3	4	3	3	4	4
12	3	3	2	2	3	3	4	4	5	5	3	4	4	3	3	2	3	3	2	2	3	2	2	4	3
13	4	3	7	5	4	9	3	2	1	1	1	1	D	5	6	4	3	3	3	4	5	6	6	3	4
14	5	3	2	3	3	5	4	3	4	4	7	4	6	8	8	13	12	12	11	10	12	9	7	4	7
15	4	3	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	3	3	3	3	2
16	2	2	1	2	2	3	5	7	5	5	4	7	6	4	5	9	7	7	9	13	12	21	17	18	7
17	15	12	9	8	9	9	16	20	22	32	33	23	14	9	10	7	6	3	3	4	6	4	5	5	12
18	8	5	6	7	9	12	4	3	4	4	3	6	6	4	3	6	8	9	7	8	6	7	6	4	6
19	4	3	4	3	4	3	3	4	5	7	6	11	10	11	10	10	11	5	5	3	2	3	2	2	5
20	3	2	2	2	2	3	2	3	4	5	3	4	6	5	4	4	5	4	4	3	3	4	4	3	4
21	3	4	6	9	7	4	5	4	5	16	20	25	19	25	33	39	44	24	24	25	32	30	27	38	20
22	40	30	25	23	22	17	15	22	20	3	2	3	7	4	1	1	1	7	6	6	6	2	4	3	11
23	6	6	14	13	13	12	11	11	12	19	30	26	18	20	17	15	9	6	2	3	4	4	7	5	12
24	6	6	5	4	5	7	10	19	25	24	16	18	40	22	5	5	5	3	2	2	4	4	5	4	10
25	5	4	3	2	2	2	12	17	26	43	35	18	12	17	17	4	3	3	3	3	5	5	3	5	10
26	4	5	3	3	4	3	3	5	6	7	7	5	5	5	8	5	3	3	3	3	2	4	5	7	5
27	3	4	5	6	6	5	8	9	9	9	7	5	6	11	21	15	6	6	3	5	4	3	3	6	7
28	6	9	10	8	7	8	10	12	15	19	17	17	21	5	8	10	12	12	19	19	10	8	9	9	12
29	8	8	14	12	6	8	5	5	6	8	12	4	4	4	4	3	5	5	2	5	8	10	15	7	7
30	10	9	6	6	6	5	6	14	11	10	8	8	8	7	6	6	8	7	9	6	6	6	5	3	7

MONTHLY STATISTICS:

GEOM	ARITH	PERCENTILES							RANGE				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
6	5	8	5	19	25	34	40	1	-	50	2	-	20	2	100	0

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

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

STATION : CHEUNG CHAU
POLLUTANT : NITROGEN DIOXIDE

MONTH: APRIL

YEAR : 2016
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	107	65	77	75	73	47	93	55	72	63	53	40	21	44	41	33	35	66	37	28	15	13	17	71	52
2	85	81	61	36	32	31	11	22	43	50	94	103	55	31	58	39	37	12	19	38	40	79	69	93	51
3	91	82	64	42	31	20	32	72	83	47	62	38	16	7	9	19	60	41	35	73	49	46	97	53	49
4	51	57	45	46	34	25	55	61	68	33	31	23	16	17	23	38	51	45	24	36	15	13	22	46	36
5	50	57	30	59	83	89	84	101	86	79	50	17	15	13	11	15	22	25	30	29	30	21	20	22	43
6	31	M	38	29	13	12	15	21	23	28	14	9	8	12	11	10	17	18	20	13	16	33	15	42	19
7	42	41	38	27	16	15	40	22	18	14	14	16	16	27	28	25	23	16	19	63	34	54	56	41	29
8	57	64	52	27	33	53	60	39	20	21	22	18	25	48	16	17	32	47	45	55	61	51	41	40	39
9	42	36	24	21	31	33	24	44	43	27	15	12	16	19	17	22	28	25	21	16	14	35	37	35	27
10	41	34	26	32	22	10	17	12	23	31	45	59	50	18	44	52	93	98	92	130	113	134	106	100	58
11	86	80	67	35	52	62	63	77	86	90	38	25	32	24	18	26	20	21	16	26	30	25	27	20	44
12	14	13	10	6	18	26	25	35	35	32	18	22	16	12	15	11	51	79	40	41	60	38	74	82	32
13	89	73	83	46	20	44	10	17	29	24	21	20	D	128	121	93	106	115	114	127	127	123	117	99	76
14	96	80	62	56	57	59	60	70	78	68	87	62	37	72	62	43	38	40	41	37	39	30	25	14	55
15	16	15	12	12	18	12	14	15	15	17	16	59	43	34	91	98	63	13	20	36	77	24	15	12	31
16	8	8	8	11	11	15	23	25	8	7	11	12	6	8	12	10	17	49	52	62	35	48	38	44	22
17	56	54	36	26	25	30	42	39	32	32	26	21	13	6	8	6	7	7	10	12	21	11	28	25	24
18	51	25	39	42	54	73	46	39	64	56	45	62	77	62	50	55	73	47	39	33	30	20	14	16	46
19	18	23	24	28	26	27	28	40	39	49	35	54	49	52	50	49	54	33	27	25	13	14	19	25	33
20	21	M	26	25	22	25	15	13	12	19	15	14	12	9	37	17	77	73	82	50	8	14	64	79	32
21	73	55	93	98	67	63	75	55	55	24	27	33	29	40	50	44	68	42	47	64	83	78	77	90	60
22	83	64	60	63	60	53	39	40	47	18	15	19	16	47	28	35	17	48	44	29	45	39	75	28	42
23	41	40	65	58	46	64	66	59	66	63	93	63	25	36	27	26	23	26	13	17	16	39	42	73	45
24	83	82	76	45	44	63	61	68	77	79	58	37	61	74	24	31	75	78	42	94	106	96	96	61	67
25	45	62	63	41	17	37	47	54	59	42	55	19	10	19	18	18	16	9	15	11	24	20	14	12	30
26	13	23	5	8	19	15	23	12	16	13	8	3	6	3	8	5	4	10	12	7	10	15	18	26	12
27	7	12	18	16	17	18	27	27	22	35	42	33	31	46	75	41	12	27	68	33	18	25	41	77	32
28	78	58	56	60	44	56	74	69	73	61	47	66	88	41	67	33	40	48	58	41	20	16	19	73	54
29	77	83	97	60	18	29	11	15	17	24	24	10	6	6	7	7	12	14	11	19	15	23	29	20	26
30	20	18	14	13	15	15	23	39	29	29	22	28	20	29	29	28	26	35	38	30	27	15	13	42	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		
31	33	40	33	77	91	105	117	3	-	134	12	-	76	2	100	0

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

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

STATION : VICTORIA PEAK
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2016
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	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
2	1	0	1	1	1	0	1	1	0	1	1	1	1	1	3	6	5	4	3	4	5	4	3	2	2
3	2	2	2	3	1	3	2	5	23	8	5	4	4	6	9	29	15	6	2	1	1	7	0	10	6
4	4	22	4	4	4	4	2	2	1	2	2	2	4	3	2	D	D	0	0	0	1	0	1	3	
5	0	1	1	1	1	2	1	1	2	2	2	1	1	1	1	2	3	1	3	2	2	4	2	1	2
6	0	0	0	0	0	0	0	0	0	1	1	3	3	3	2	1	1	2	0	1	0	0	1	2	1
7	3	3	1	1	0	0	0	0	1	3	2	3	2	3	3	3	2	3	2	1	1	2	2	1	2
8	3	2	1	3	1	1	0	1	0	2	4	2	2	2	3	1	5	2	2	2	1	1	0	2	2
9	1	5	1	2	1	1	3	2	3	7	7	5	3	5	4	10	9	3	3	3	3	4	3	2	4
10	1	1	2	1	1	2	2	4	1	1	0	0	1	0	0	2	1	9	3	5	8	1	6	1	2
11	2	1	1	0	0	0	1	1	1	3	11	9	19	3	1	1	1	1	1	2	1	0	0	1	3
12	2	1	1	1	1	2	1	2	2	2	2	2	2	2	2	3	3	2	2	2	3	2	2	1	2
13	0	0	0	0	1	0	1	1	1	2	4	3	3	4	4	2	2	2	1	2	2	1	1	4	2
14	4	2	2	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	0	1	1	0	1
15	0	0	0	0	0	0	0	0	0	0	1	2	3	1	1	1	0	0	1	8	4	3	3	2	1
16	3	1	1	1	1	0	0	0	1	1	1	2	3	6	10	12	15	10	14	6	2	1	0	4	
17	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1
18	3	2	2	1	2	2	2	3	3	2	2	2	2	3	3	3	3	3	5	4	4	4	4	1	3
19	2	2	3	3	2	2	2	3	2	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	1
20	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	0	1	0
21	1	1	1	2	1	3	7	2	3	2	5	4	2	1	2	5	7	10	10	9	3	4	4	9	4
22	3	4	5	2	1	1	2	2	2	1	2	4	4	11	10	8	16	27	29	15	20	19	16	22	9
23	11	6	5	6	5	4	3	3	3	3	25	15	12	8	6	13	16	13	12	9	6	17	8	9	9
24	14	7	3	3	13	20	6	5	5	7	11	12	19	19	8	7	17	13	9	7	7	6	4	3	9
25	4	3	2	1	0	1	1	1	2	1	1	1	1	2	1	1	2	2	1	1	1	1	0	1	1
26	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
27	0	0	0	0	0	0	0	1	1	0	1	1	0	1	1	3	2	5	2	3	2	1	2	2	1
28	2	2	2	3	2	2	2	2	3	3	3	3	2	2	3	2	3	2	0	0	4	1	2	6	2
29	4	5	3	3	4	3	4	4	4	4	2	2	2	2	2	2	3	3	3	6	4	3	3	1	3
30	1	2	1	2	1	0	0	1	3	3	13	3	1	2	2	3	2	4	2	2	2	1	2	3	2
31	4	2	1	2	2	2	3	3	5	8	7	6	5	15	5	3	6	27	6	2	2	1	2	3	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	
2	2	3	2	6	11	17	21	0	-	29	0	-	9	2	100	0

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

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

STATION : VICTORIA PEAK
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2016
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	8	16	18	10	13	14	11	4	2	1	0	0	1	0	0	4
2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	5	1	1	2	1	10	0	0	0	1
3	0	0	0	0	0	0	0	4	8	3	1	1	0	0	1	17	8	12	22	9	11	14	0	21	6
4	6	11	0	0	22	10	0	0	11	7	4	M	13	12	D	D	14	14	15	8	14	12	10	9	
5	7	M	7	6	7	9	8	10	11	13	12	13	12	11	15	18	18	15	21	17	16	22	11	15	13
6	7	4	5	2	4	3	8	13	13	15	11	15	19	15	14	13	15	20	14	14	18	19	18	15	12
7	16	19	8	6	4	4	5	9	11	17	15	16	14	14	13	15	20	19	16	16	15	21	21	11	14
8	17	11	7	12	7	8	7	10	7	12	12	11	14	13	15	14	23	21	22	24	17	18	16	15	14
9	11	22	10	12	11	11	18	20	16	23	24	21	16	21	21	26	30	18	17	21	15	21	19	12	18
10	5	7	9	3	6	9	9	26	12	9	10	26	42	15	11	19	17	39	29	56	58	62	79	49	25
11	64	45	27	34	24	22	25	40	58	79	62	58	68	30	19	16	12	12	10	12	8	9	9	7	31
12	7	7	8	8	6	8	12	21	29	28	38	36	32	29	23	26	42	34	27	18	13	7	7	12	20
13	11	9	8	7	5	4	6	10	13	15	21	27	21	19	15	18	13	13	13	18	13	9	8	15	13
14	12	7	7	4	3	4	4	5	5	6	9	5	4	4	5	4	5	5	10	9	5	4	6	2	6
15	3	5	3	3	6	4	4	9	12	15	23	27	23	24	15	20	17	23	15	28	25	23	24	25	16
16	37	30	28	25	31	18	16	25	26	42	40	40	44	37	44	43	61	81	73	60	18	9	6	7	35
17	6	5	5	4	6	6	9	10	13	17	20	20	23	20	22	23	18	24	20	18	10	11	19	8	14
18	8	6	5	5	5	6	8	12	15	18	19	11	12	14	18	19	34	27	42	19	12	9	9	5	14
19	4	M	6	6	6	6	6	16	18	17	25	21	21	14	25	33	29	10	7	10	8	5	3	3	13
20	2	0	1	1	1	1	2	4	11	13	12	11	13	7	10	12	14	11	14	11	13	6	7	8	8
21	8	3	5	5	4	13	31	9	13	11	40	44	11	10	17	34	38	45	54	53	37	73	83	74	30
22	41	44	53	31	14	10	17	21	21	26	26	27	34	32	41	34	43	71	89	102	131	114	102	108	51
23	71	41	34	45	46	31	31	27	27	39	61	63	44	31	31	57	64	58	49	31	28	63	11	24	42
24	58	22	4	3	21	39	10	25	23	27	38	51	48	36	32	34	43	39	25	30	24	13	17	14	28
25	13	4	2	0	0	0	2	3	14	19	13	13	4	16	11	6	7	6	4	4	2	2	0	2	6
26	2	2	1	1	1	2	5	9	14	7	8	9	10	9	8	10	12	10	7	6	3	2	3	2	6
27	1	1	0	0	0	0	1	3	11	15	13	11	4	6	5	8	8	12	5	8	10	5	7	5	6
28	3	1	1	2	1	0	4	3	8	6	9	7	7	6	8	5	24	12	1	4	33	15	9	37	9
29	18	15	6	8	8	6	11	11	8	9	6	3	6	3	7	9	11	11	18	18	15	7	21	5	10
30	4	5	3	8	4	0	0	3	2	4	8	4	3	10	5	12	9	10	10	7	13	6	8	10	6
31	9	1	1	6	3	7	18	20	24	23	18	15	12	23	11	11	13	33	13	7	4	4	5	17	12

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
11	11	16	11	36	49	69	80	0	-	131	1	-	51	3	99	0

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH: MAY

YEAR : 2016

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	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0
2	0	0	0	0	0	0	1	0	1	2	1	1	1	1	3	3	8	9	10	7	19	13	13	9	4
3	10	11	5	4	8	7	5	5	4	5	5	12	12	19	8	6	0	0	1	7	8	2	0	6	
4	1	1	3	2	2	0	0	0	0	0	1	3	2	2	0	1	0	1	2	2	3	2	1	1	
5	0	3	3	4	2	3	6	3	11	12	5	3	4	3	3	4	4	2	7	4	3	4	0	2	4
6	4	5	3	2	1	3	8	14	6	3	5	3	1	7	8	1	1	2	1	4	7	3	2	3	4
7	5	6	1	0	3	5	3	2	2	3	2	3	1	7	3	1	3	2	0	0	1	0	0	0	2
8	1	0	1	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	2	2	0	1	1
9	1	2	0	1	1	1	3	2	4	3	2	1	0	0	1	0	2	3	1	2	3	5	1	15	2
10	20	3	5	6	10	7	11	9	18	20	18	3	0	0	0	3	3	2	1	3	4	6	2	1	6
11	12	6	1	3	2	1	3	3	9	23	53	13	2	1	2	2	1	1	1	1	1	0	1	1	6
12	1	0	0	0	0	1	1	1	0	0	1	1	M	1	1	2	1	1	1	1	1	1	1	1	1
13	1	0	1	0	1	1	1	1	2	2	3	5	6	5	3	2	2	2	3	4	3	3	3	4	2
14	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3	1	1
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	4	3	6	1	1	1	1
16	2	2	0	0	0	0	0	0	0	0	0	0	13	5	6	12	30	15	9	2	2	0	0	0	4
17	0	0	0	0	1	0	1	0	1	1	2	2	2	1	1	1	1	1	1	1	1	0	2	3	1
18	4	2	2	3	3	3	3	4	2	2	2	2	2	2	3	2	5	3	3	2	5	7	3	3	3
19	2	2	3	4	4	4	3	4	3	2	1	1	1	1	1	1	1	1	1	1	1	2	2	1	2
20	2	0	1	2	1	1	1	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
21	0	0	1	1	0	0	1	2	1	4	3	7	3	3	8	10	16	15	20	24	14	16	20	11	8
22	7	8	4	2	4	1	1	3	11	2	8	17	7	1	1	2	14	20	25	27	23	17	23	16	10
23	17	14	9	7	4	9	3	3	2	2	3	3	2	4	2	3	5	7	5	8	27	28	24	20	9
24	24	23	21	10	14	12	13	12	12	40	28	15	14	6	6	8	20	19	13	15	8	10	10	5	15
25	4	5	2	2	3	3	2	3	2	1	2	1	1	1	0	0	0	0	1	1	1	1	1	1	2
26	3	1	1	1	0	1	0	1	1	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	1
27	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	2	2	2	6	3	4	4	2	1
28	4	4	2	4	0	2	5	4	8	4	4	2	4	2	2	1	4	0	0	0	0	0	4	6	3
29	4	4	2	5	4	7	6	7	7	3	1	3	2	3	2	2	2	2	3	5	2	5	1	1	3
30	3	3	0	1	3	3	5	1	3	6	7	12	6	1	3	2	2	3	1	0	0	1	1	2	3
31	0	0	1	1	0	1	0	1	0	1	1	1	0	3	1	0	0	0	0	0	1	1	1	2	1

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
3	2	3	2	9	15	21	25	0	-	53	0	-	15	3	100	0

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH: MAY

YEAR : 2016

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	2	2	2	2	0	0	0	1	0	0	2	0	2	2	1	1	4	5	1	2	2	3	1	2
2	1	1	0	0	0	0	2	2	4	7	5	6	3	3	9	9	8	18	19	15	25	20	19	16	8
3	16	14	10	7	15	11	14	6	6	4	3	6	17	11	20	13	7	6	2	48	45	44	17	23	15
4	31	M	45	29	24	11	7	7	0	1	1	0	1	0	1	0	1	5	6	1	5	1	3	8	
5	0	9	4	7	5	7	10	4	5	6	2	0	2	2	3	5	5	6	18	13	12	12	5	3	6
6	11	11	9	8	3	8	16	13	7	2	4	1	2	8	11	1	3	5	6	13	17	5	14	14	8
7	20	15	3	0	7	11	7	4	3	5	1	4	0	10	3	1	4	6	3	3	13	8	6	5	6
8	14	5	6	7	5	4	3	6	7	3	6	1	0	0	0	1	0	6	13	5	18	23	12	11	7
9	7	9	4	9	11	5	13	9	9	5	4	1	2	1	7	4	9	8	11	12	13	20	9	41	9
10	35	6	11	18	21	18	21	22	25	23	19	14	2	4	5	15	10	10	28	46	55	56	53	53	24
11	65	51	25	35	26	20	27	25	28	51	66	31	6	3	1	2	3	2	5	5	5	3	4	10	21
12	9	9	7	6	6	7	6	7	7	6	4	3	M	6	7	9	7	7	4	5	6	5	3	3	6
13	2	0	1	1	2	1	4	5	6	4	3	4	6	3	1	7	5	5	7	7	6	7	6	8	4
14	7	3	3	0	0	0	0	0	0	1	0	0	0	0	0	0	1	4	2	3	5	1	8	0	2
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	11	7	28	43	20	14	25	6
16	28	39	24	9	8	8	11	16	20	23	36	44	47	33	34	48	69	46	34	8	6	1	0	7	25
17	7	5	5	4	6	5	7	7	8	7	7	8	6	5	5	5	7	7	7	6	6	3	5	6	6
18	6	M	2	3	3	3	4	9	5	3	2	2	2	3	5	5	8	6	6	6	10	16	8	7	5
19	4	2	4	3	3	4	6	10	5	3	3	4	1	0	1	3	2	1	2	2	2	5	5	9	4
20	12	3	4	8	6	4	4	9	8	7	6	4	3	7	7	13	10	5	7	8	3	4	5	7	6
21	3	2	7	5	3	3	10	19	9	11	14	28	12	12	14	23	48	62	58	76	66	56	58	57	27
22	59	63	54	19	25	3	3	4	23	2	14	39	10	0	0	2	26	37	47	44	53	42	33	49	27
23	80	62	49	27	1	20	0	2	4	3	17	8	3	9	3	10	7	11	9	14	36	34	39	31	20
24	29	26	31	12	21	13	20	17	12	33	41	22	16	21	17	21	21	20	9	13	9	0	1	1	18
25	0	1	1	0	0	0	2	7	7	7	12	4	1	2	0	1	0	0	0	1	1	0	1	1	2
26	3	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	0	0	0	0	0	0	0	1	0
27	0	0	0	0	0	0	7	6	4	4	3	6	1	4	6	6	4	2	3	10	6	6	2	8	4
28	9	8	3	3	0	2	9	6	10	3	7	5	9	3	3	6	20	16	14	32	16	9	15	22	10
29	11	11	6	16	9	16	11	10	8	7	1	5	4	7	4	5	7	17	24	33	18	31	11	11	12
30	15	9	4	7	24	18	27	13	17	18	31	30	14	10	12	11	12	18	15	22	15	19	15	13	16
31	13	11	24	19	8	15	8	14	7	11	12	15	10	15	12	6	11	21	28	32	38	26	25	26	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	
7	6	11	6	27	42	55	62	0	-	80	0	-	27	3	100	0

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

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

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2016
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	1	2	4	4	9	14	15	10	8	16	12	9	12	5	7	6	6	5	13	9	13	8
2	7	4	5	3	3	3	2	2	1	2	1	1	2	2	3	7	5	5	6	5	5	5	4	4	4
3	3	4	3	3	3	5	5	4	3	4	10	6	5	5	5	8	5	2	1	1	1	2	1	1	4
4	1	1	3	4	3	3	6	15	38	27	22	19	5	3	3	2	1	2	2	3	2	5	4	2	7
5	1	3	3	3	4	4	5	4	6	7	3	3	2	2	3	5	5	4	8	6	7	7	5	7	4
6	5	5	5	3	5	4	4	6	7	5	4	5	6	5	4	3	4	5	4	6	4	3	3	7	5
7	9	10	6	4	3	4	2	4	3	3	3	4	7	4	5	4	4	7	5	4	4	4	5	5	5
8	7	5	5	6	4	2	2	3	2	4	5	3	3	3	3	2	12	4	5	2	3	3	2	4	4
9	4	6	4	3	3	3	5	5	4	6	5	5	4	6	4	M	5	3	4	4	6	9	8	9	5
10	5	4	7	3	5	4	6	13	5	3	3	2	1	1	1	M	6	5	7	6	6	5	3	7	5
11	11	5	3	2	2	2	2	2	3	8	5	M	20	2	1	2	2	1	1	1	1	1	1	1	3
12	1	1	1	1	1	1	1	1	1	1	3	2	10	2	2	2	2	2	1	2	1	1	1	1	2
13	2	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2
14	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	1	5	7	6	8	1	3	7	2	3	3	11	7	5	5	4	3
16	5	3	3	3	1	1	1	4	3	3	7	5	6	4	4	8	12	12	17	8	4	2	1	1	5
17	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
18	2	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1
19	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	1	0	1	0	0	1	1	2	2	1	1	1	1	1	0	0	1	1
21	1	0	1	1	1	1	1	1	2	2	2	2	2	3	7	4	6	7	5	4	8	7	7	7	3
22	4	5	4	5	2	2	3	3	2	2	2	5	6	5	7	5	13	35	21	20	14	10	10	12	8
23	11	9	11	8	8	8	8	8	20	25	11	12	12	5	8	9	9	15	11	18	18	7	6	8	11
24	7	4	4	3	4	11	8	4	4	4	5	8	32	21	8	7	19	11	6	5	5	5	4	7	8
25	5	3	3	1	1	1	1	1	3	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	1
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	M	3	1	2	1	0	1	1	1
28	1	1	1	1	1	0	1	1	1	0	M	1	0	0	1	0	0	0	0	0	0	0	1	6	1
29	5	7	4	4	5	4	5	5	4	3	3	3	2	3	2	3	3	3	3	3	3	2	2	2	3
30	2	4	4	6	3	1	1	4	3	3	5	2	1	3	2	0	1	2	2	1	2	2	3	3	3
31	4	2	1	2	2	2	3	2	3	4	4	4	3	4	3	1	1	2	1	0	1	1	1	2	2

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
3	2	4	2	8	11	17	21	0	-	38	0	-	11	2	99	0

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

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

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH: MAY

YEAR : 2016
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	18	16	11	17	22	30	38	53	57	55	44	43	56	48	46	50	27	51	58	47	39	61	45	59	41
2	36	23	24	19	25	24	15	18	20	19	19	20	19	21	21	27	24	25	25	20	26	20	25	25	23
3	19	18	11	10	13	19	19	23	19	17	20	19	17	19	18	19	18	25	31	49	33	34	26	25	22
4	21	M	42	41	36	36	40	49	54	46	42	43	31	25	24	18	19	25	31	26	21	25	23	16	32
5	15	17	15	13	15	17	20	22	21	19	17	15	15	18	17	19	21	19	26	27	29	27	23	25	20
6	20	16	18	12	17	15	26	26	26	24	21	20	19	17	19	17	21	22	21	24	24	20	21	24	20
7	27	29	19	14	14	16	20	24	20	20	19	18	22	17	19	18	21	22	21	27	27	24	23	18	21
8	21	16	17	17	12	13	16	18	16	20	19	15	15	15	16	16	24	21	26	22	20	21	17	23	18
9	18	21	14	13	14	15	22	27	22	22	21	23	20	18	20	M	26	21	22	25	31	35	28	29	22
10	20	19	23	14	16	18	29	37	27	16	16	29	31	25	29	M	32	42	43	48	51	56	59	63	32
11	61	46	34	32	27	22	25	37	34	42	43	M	52	27	32	28	25	24	22	22	18	16	15	15	30
12	13	13	14	12	10	13	21	29	30	28	29	33	49	34	28	32	35	37	48	40	26	20	20	22	27
13	26	15	16	14	12	11	16	19	21	18	19	21	21	18	21	26	20	24	26	21	18	16	15	19	19
14	19	13	12	11	11	11	12	12	12	14	16	16	15	15	17	17	16	16	16	16	13	14	14	13	14
15	12	12	10	10	11	11	16	15	18	29	28	23	25	15	20	26	17	24	31	47	38	38	38	35	23
16	37	28	28	24	20	18	21	30	32	38	39	37	42	42	46	66	71	70	83	55	29	20	17	15	38
17	16	14	13	13	13	13	16	17	20	21	23	24	26	25	28	30	31	28	25	24	20	17	22	16	21
18	16	M	14	14	15	15	18	22	23	24	24	22	22	21	24	25	34	36	45	42	27	23	22	17	24
19	17	15	14	14	14	15	20	24	24	23	20	19	18	18	25	25	31	24	21	19	19	17	16	15	19
20	15	13	13	12	13	12	15	17	19	18	19	15	18	26	30	29	28	25	24	19	14	13	14	15	18
21	17	13	16	17	16	19	32	25	29	23	27	40	27	27	30	48	42	51	60	59	58	66	61	50	36
22	42	38	36	33	19	19	29	29	29	26	32	37	38	31	37	28	40	58	57	66	70	79	71	68	42
23	61	54	59	51	48	46	44	41	39	44	40	41	38	27	32	35	34	43	40	66	44	31	30	41	43
24	35	24	19	16	17	32	27	28	24	25	32	41	73	53	36	32	58	60	51	48	35	28	25	37	36
25	28	18	17	12	11	14	20	24	27	26	23	23	21	22	23	23	19	20	19	16	14	13	12	12	19
26	12	11	10	10	10	10	14	17	18	18	17	17	18	18	19	19	18	19	16	15	12	11	11	10	15
27	9	9	9	8	9	9	15	16	18	18	19	19	17	18	20	25	M	23	14	18	19	15	15	16	16
28	15	16	14	14	10	8	15	15	16	16	M	15	15	15	24	17	26	28	24	20	34	31	26	40	20
29	37	34	24	26	28	25	32	31	25	23	19	19	19	17	19	21	21	21	23	21	21	19	19	18	23
30	19	20	19	20	15	10	16	24	20	18	19	17	14	18	16	17	17	18	20	15	18	17	20	22	18
31	21	10	10	13	10	15	16	20	22	22	21	22	19	22	22	17	16	22	16	15	13	14	15	20	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	
22	21	25	21	42	52	61	67	8	-	83	14	-	43	2	99	0

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

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

STATION : POK FU LAM
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2016
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	1	1	4	8	20	26	31	28	23	41	39	22	18	24	19	11	16	15	22	24	37	18
2	33	27	23	10	7	10	3	4	6	2	1	1	2	3	4	10	8	6	6	5	6	5	4	6	8
3	5	5	4	4	5	6	6	5	9	10	28	16	14	10	9	21	9	5	2	1	2	6	0	3	8
4	5	1	5	9	9	5	6	16	43	46	54	48	29	5	3	2	2	3	3	4	4	7	5	2	13
5	1	4	4	4	5	5	5	5	8	11	5	5	3	3	3	9	7	4	8	6	7	8	5	9	6
6	5	6	6	3	4	3	5	7	8	8	6	13	8	6	6	5	5	8	4	6	5	3	2	9	6
7	10	13	7	5	4	4	2	4	4	4	5	10	8	6	10	6	5	8	6	5	4	6	7	6	6
8	8	6	5	9	3	3	1	2	2	7	6	4	6	3	5	3	10	6	10	3	3	3	1	5	5
9	4	8	3	3	2	3	6	5	6	16	13	8	5	7	4	9	7	4	5	5	7	9	12	17	7
10	7	6	11	6	8	7	7	17	8	6	6	3	2	2	3	10	15	15	17	12	11	7	6	14	9
11	12	3	2	2	2	2	2	2	3	11	15	18	61	3	2	3	2	2	1	3	2	1	1	1	7
12	0	0	0	0	0	1	1	0	6	7	1	3	10	5	1	3	3	7	11	6	6	5	6	4	4
13	9	4	4	6	8	2	1	1	1	2	4	4	3	3	4	2	1	1	1	2	2	0	1	3	3
14	4	2	2	1	0	1	0	0	0	0	1	0	0	1	1	2	1	1	1	2	1	1	1	1	1
15	0	0	0	0	1	0	1	0	1	20	19	15	7	1	3	19	2	2	2	17	11	9	8	4	6
16	5	2	4	3	1	0	0	4	3	2	6	4	7	4	9	15	19	11	12	14	8	3	1	1	6
17	0	0	0	0	1	0	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	0	4	1	1
18	4	3	3	3	4	4	4	5	5	3	3	3	3	4	4	3	4	4	4	5	5	5	6	2	4
19	3	3	3	4	4	3	3	3	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	0	2
20	0	0	0	0	0	1	0	0	0	0	0	0	0	1	4	2	1	1	0	0	0	0	0	0	0
21	1	0	1	1	1	1	1	2	3	4	4	3	6	5	8	17	12	14	18	11	7	16	15	16	7
22	7	9	8	8	2	2	3	3	3	3	4	8	13	12	11	21	28	31	40	43	34	22	42	39	17
23	19	10	7	8	6	8	6	8	38	59	25	24	16	12	19	15	14	19	17	11	17	11	9	10	16
24	13	9	5	10	13	28	19	8	14	13	19	25	57	40	13	11	35	17	14	13	11	9	6	5	17
25	7	5	4	1	1	1	1	1	20	20	1	1	1	1	0	1	1	1	1	0	0	0	1	3	3
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	0	1
27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	5	1	5	3	3	3	1	2	3	1
28	3	3	5	4	3	3	5	5	5	4	5	4	4	5	13	4	5	2	0	0	0	2	7	13	4
29	9	10	7	11	9	10	13	14	12	12	9	6	3	4	4	7	4	5	3	6	6	7	3	6	8
30	6	10	11	13	5	2	3	10	6	10	7	7	4	5	3	D	D	1	0	0	0	0	0	0	5
31	0	1	0	0	0	0	0	0	0	2	3	0	0	0	1	0	1	0	0	0	0	0	1	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	
4	4	6	4	15	22	37	43	0	-	61	0	-	18	3	100	0

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

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

STATION : POK FU LAM
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2016
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	18	11	8	14	10	25	49	78	76	81	73	68	93	90	72	63	69	82	83	83	76	86	85	102	62
2	88	70	62	33	35	33	12	22	27	10	10	12	10	12	12	20	17	17	20	19	20	16	20	21	26
3	14	11	9	12	14	17	14	25	26	22	28	20	17	14	11	27	20	29	21	65	41	49	32	32	24
4	33	9	44	75	82	54	58	65	74	68	76	83	66	27	16	16	17	27	27	16	10	14	16	7	41
5	7	11	11	9	10	12	16	18	22	19	13	10	8	8	6	14	16	21	28	26	26	24	17	25	16
6	15	11	13	5	8	7	19	27	28	24	18	18	16	14	17	16	19	28	24	25	23	15	13	21	18
7	25	32	15	8	7	9	8	16	14	14	13	16	13	10	11	8	11	18	22	22	18	19	16	15	15
8	16	M	10	14	4	8	5	6	8	16	12	6	9	7	9	7	16	16	23	15	13	11	9	18	11
9	10	17	8	7	7	9	15	24	27	24	21	15	11	14	14	19	19	16	19	25	28	24	31	48	19
10	12	7	19	13	10	15	16	39	25	17	15	47	34	10	14	32	41	51	54	64	69	76	85	91	36
11	85	48	26	41	23	25	28	53	70	64	52	58	79	22	24	19	17	19	18	16	11	12	9	10	35
12	9	9	9	9	8	9	15	29	41	51	39	33	44	38	30	38	54	64	85	76	54	49	33	30	36
13	50	20	18	23	16	5	8	18	28	22	25	27	26	29	29	19	21	34	27	24	18	14	11	15	22
14	17	10	8	6	4	5	6	7	8	8	11	9	9	8	7	6	10	12	12	25	16	15	12	5	10
15	6	10	4	4	6	5	7	11	17	41	38	20	12	8	10	25	15	25	20	45	45	51	46	46	22
16	52	36	37	31	24	22	27	42	44	49	53	47	53	40	50	66	77	71	88	86	36	16	11	11	45
17	10	8	7	7	8	8	12	17	24	27	26	22	26	27	30	29	34	36	33	33	22	17	29	14	21
18	11	8	7	7	7	8	11	18	27	29	30	20	20	23	23	33	45	50	59	70	37	13	13	11	24
19	7	7	8	9	8	7	9	16	21	18	12	10	10	8	12	11	17	15	13	16	15	10	6	7	11
20	6	2	3	3	3	4	4	8	11	8	8	7	8	11	15	16	15	12	11	7	6	7	6	7	8
21	9	4	8	9	9	9	10	21	33	30	22	20	27	16	22	53	47	61	75	63	70	98	101	79	37
22	68	M	56	48	24	24	36	43	39	35	36	39	48	29	30	44	52	84	89	109	109	116	115	106	60
23	83	67	55	65	63	66	55	61	67	74	66	64	31	22	30	30	30	47	57	59	63	32	23	31	52
24	34	19	9	19	16	44	37	31	29	27	39	62	81	65	39	49	73	47	38	28	22	17	12	13	35
25	14	8	9	3	2	3	8	16	35	39	17	13	11	13	9	9	9	12	11	10	8	7	4	3	11
26	2	3	1	2	1	2	7	13	19	19	12	8	15	17	14	10	15	18	15	10	5	4	4	8	9
27	6	4	3	3	2	2	5	7	9	8	8	7	7	8	8	15	17	23	16	14	14	11	12	14	9
28	11	8	10	9	6	6	11	12	14	13	14	12	10	11	29	15	36	38	30	29	14	33	54	58	20
29	46	35	20	33	25	22	30	30	23	27	17	12	8	11	6	10	10	12	14	22	22	24	14	22	21
30	18	24	22	26	12	6	11	31	18	18	12	10	7	9	10	D	D	13	14	10	12	10	18	23	15
31	17	5	4	4	3	7	6	5	7	7	9	4	4	2	5	5	5	3	4	4	7	5	11	17	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		
18	17	25	17	62	76	86	96	1	-	116	6	-	62	2	99	0

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

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

STATION : AP LEI CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2016
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	1	0	0	0	0	7	22	17	14	11	9	18	12	5	16	6
3	11	11	6	6	8	11	13	7	9	11	36	22	53	15	19	16	7	3	0	3	7	13	6	2	12
4	1	3	12	11	12	4	1	6	2	2	5	2	3	2	1	0	0	2	8	8	9	4	3	4	
5	2	25	17	15	34	15	14	13	27	37	11	12	6	7	11	15	13	15	33	19	37	21	16	31	19
6	14	11	7	3	18	13	23	41	26	27	35	35	36	16	15	15	19	21	12	20	26	6	6	11	19
7	33	26	11	8	14	9	18	24	14	25	16	9	30	11	19	10	20	22	7	12	17	15	6	6	16
8	18	9	12	17	7	4	3	5	2	7	19	11	8	8	12	9	24	4	3	4	8	7	3	11	9
9	12	15	8	6	11	10	11	12	27	28	28	23	32	20	19	39	28	9	13	8	19	30	21	26	19
10	10	19	19	5	16	10	17	24	17	2	5	13	0	0	4	12	9	8	10	8	14	10	7	19	11
11	20	4	19	14	3	3	5	6	36	15	21	32	39	1	1	1	1	0	0	2	0	0	0	1	9
12	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
13	0	0	0	0	0	0	0	0	0	0	1	3	1	2	1	0	0	0	0	1	2	0	1	7	1
14	6	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
15	1	1	0	0	1	0	0	0	0	2	3	2	2	1	3	2	0	9	15	9	16	6	11	6	4
16	10	5	4	4	3	2	2	5	5	6	11	8	19	8	11	13	25	58	25	13	5	3	1	1	10
17	1	0	0	0	0	0	1	1	2	1	3	2	2	2	1	2	2	1	2	1	2	1	2	2	1
18	4	2	1	1	2	2	2	3	2	0	1	1	1	1	0	1	1	1	1	2	1	6	5	1	2
19	2	2	2	3	3	2	2	3	2	3	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1
20	1	0	0	1	0	0	0	0	0	0	1	0	0	2	4	2	2	0	0	0	0	0	0	1	1
21	4	2	10	5	5	1	2	10	7	9	13	6	10	9	19	15	15	11	32	11	22	37	64	13	14
22	6	4	6	9	3	2	3	3	3	3	6	20	10	11	26	16	25	29	35	41	29	29	56	84	19
23	68	52	30	27	28	35	31	53	66	73	37	48	27	7	10	50	26	22	33	62	46	26	33	23	38
24	27	29	23	29	12	26	24	15	23	24	18	26	60	38	10	12	35	30	20	28	16	16	12	6	23
25	12	7	5	1	1	1	1	1	6	1	1	1	0	0	0	1	1	0	0	0	0	0	0	1	2
26	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
27	0	0	0	0	0	1	25	14	9	0	0	0	3	2	1	5	10	14	10	16	10	2	6	7	6
28	3	7	10	7	4	2	5	11	8	8	13	7	7	5	8	7	3	5	1	2	1	4	18	31	7
29	22	18	12	10	16	29	25	22	22	13	6	7	6	5	7	5	4	7	3	10	6	5	1	5	11
30	20	8	11	11	4	1	6	12	6	18	8	5	2	6	8	2	4	13	7	0	4	8	6	8	7
31	10	5	3	5	4	5	5	2	5	5	7	5	2	5	8	13	9	3	4	4	8	3	6	5	5

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
7	5	9	5	25	32	42	57	0	-	84	0	-	38	3	100	0

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

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

STATION : AP LEI CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2016
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	9	4	2	2	2	4	9	13	8	13	12	14	11	10	11	10	10	13	15	17	14	17	17	18	11
2	12	8	8	6	4	5	11	3	0	3	2	1	0	2	16	23	20	19	21	14	26	15	6	20	10
3	10	10	5	6	9	13	19	8	8	10	22	17	28	15	17	15	12	26	35	62	33	50	67	36	22
4	23	M	50	60	65	63	38	47	44	25	26	15	3	2	1	0	0	1	7	19	9	12	9	7	23
5	2	19	17	11	18	12	7	5	11	14	8	11	7	7	13	15	15	17	30	22	28	16	14	29	15
6	18	13	11	7	15	14	21	30	15	14	19	17	20	13	13	14	18	21	21	22	23	12	8	15	16
7	32	26	11	9	14	10	11	15	6	16	9	5	20	9	14	11	16	15	7	15	21	22	9	8	14
8	20	9	13	17	10	8	5	5	3	6	13	7	4	3	6	3	16	4	8	7	12	14	7	20	9
9	16	20	11	10	15	14	14	14	17	18	18	13	15	12	12	27	26	16	20	19	27	38	26	28	19
10	12	26	22	8	18	9	22	33	18	5	7	25	26	5	11	24	20	38	47	57	62	71	78	84	30
11	78	47	45	45	26	23	31	36	49	62	66	58	41	4	3	3	5	4	5	10	3	3	3	4	27
12	3	2	2	2	2	5	7	15	15	9	9	10	6	4	3	10	13	14	23	13	4	4	0	6	8
13	2	1	0	0	0	0	0	2	5	2	4	5	2	4	2	2	5	2	3	4	5	3	3	15	3
14	13	6	4	2	0	2	2	1	2	3	4	3	1	1	2	1	3	3	1	1	1	2	2	3	3
15	2	2	1	1	3	4	4	7	9	8	13	7	2	0	3	1	1	13	23	20	44	25	45	34	11
16	39	34	26	25	20	18	22	28	35	42	48	50	57	35	41	48	87	118	57	34	12	6	2	3	37
17	2	1	0	0	1	1	5	6	6	5	7	8	10	10	13	12	13	8	8	3	2	1	2	3	5
18	4	M	0	0	1	1	4	6	7	7	7	1	1	2	5	8	12	19	23	16	3	7	8	1	6
19	0	0	0	1	1	1	2	5	5	5	1	0	0	1	0	0	0	1	2	1	0	0	0	3	1
20	2	0	0	0	1	2	1	4	3	2	2	2	1	2	8	6	4	1	0	1	6	8	4	6	3
21	11	3	14	10	9	1	16	17	11	14	20	20	19	30	38	35	41	44	97	56	83	111	132	75	38
22	59	48	53	48	27	26	27	27	26	27	37	48	28	19	36	19	40	41	63	66	71	91	97	102	47
23	91	95	81	78	74	69	62	55	59	67	59	52	17	8	14	55	19	18	35	58	64	35	68	45	53
24	39	30	48	46	13	24	35	23	23	29	29	25	48	35	7	11	29	26	17	29	14	10	4	7	25
25	17	5	15	8	6	7	6	5	10	5	3	3	2	4	2	3	4	4	3	4	4	3	1	4	5
26	3	3	3	3	2	5	7	6	10	11	8	8	9	10	8	6	8	7	4	2	3	1	2	4	6
27	2	1	0	1	0	1	3	2	4	3	2	2	0	2	2	4	4	19	10	17	13	4	5	8	5
28	11	11	12	8	4	5	12	12	9	12	15	11	9	8	8	10	18	20	10	20	24	19	38	48	15
29	42	29	20	15	22	33	32	22	19	14	9	7	8	6	6	9	9	12	10	16	11	8	6	11	16
30	23	9	13	15	9	4	30	26	13	22	17	13	10	12	8	12	14	13	14	8	10	13	9	9	14
31	15	12	3	6	4	8	14	6	10	7	6	8	5	5	11	13	14	8	7	6	9	4	9	7	8

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
10	10	16	10	41	59	78	91	0	-	132	1	-	53	3	100	0

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

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

STATION : CHEUNG CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2016
UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL	
6	6	7	6	15	21	26	35	0	-	45	3	-	16	2	87	0	

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

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

STATION : CHEUNG CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2016
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	43	41	27	21	26	37	47	42	72	43	48	66	87	34	12	14	56	43	85	85	58	96	80	51	51
2	49	41	39	27	23	15	13	17	25	18	12	11	21	10	30	29	23	14	16	27	15	43	29	27	24
3	32	36	29	24	26	34	33	22	43	42	11	24	15	23	10	8	5	34	58	20	1	14	49	63	27
4	52	M	91	87	80	85	96	79	70	58	39	13	15	9	8	10	18	14	30	38	47	46	48	44	47
5	34	46	42	32	25	29	27	39	9	14	11	9	7	3	6	8	12	18	14	15	12	14	13	21	19
6	20	18	9	21	25	26	23	21	15	17	17	12	7	5	3	2	9	6	14	22	20	48	30	47	18
7	45	24	23	29	24	23	28	24	27	32	29	26	15	7	5	5	12	7	14	22	29	24	26	28	22
8	31	26	20	36	40	46	42	33	24	22	20	7	2	1	7	13	19	35	52	47	49	49	54	55	30
9	50	51	51	50	46	45	42	35	27	18	10	4	4	4	5	7	7	8	17	23	16	23	29	13	24
10	18	17	15	17	16	14	15	19	17	17	12	30	37	28	56	9	30	37	74	76	81	107	94	74	38
11	93	79	18	15	15	16	23	23	25	42	27	39	51	17	5	7	7	9	8	7	6	12	14	14	24
12	14	16	17	10	16	10	13	14	26	17	18	12	14	9	7	9	11	12	13	8	8	11	14	16	13
13	7	19	16	12	22	14	7	8	14	13	21	14	15	14	15	5	21	10	8	12	14	16	18	13	14
14	26	34	25	31	25	22	24	15	19	14	21	19	19	18	12	9	10	14	8	8	14	12	11	19	18
15	10	23	23	6	14	12	18	19	18	40	30	18	11	12	14	24	12	38	28	36	34	19	31	53	23
16	47	72	44	43	37	26	22	25	30	39	45	46	53	48	45	48	70	39	59	43	39	21	9	10	40
17	12	8	11	8	12	14	30	34	23	26	23	27	20	25	21	22	30	17	32	22	13	23	16	13	20
18	10	M	18	21	23	18	29	28	34	27	24	17	13	7	8	23	7	22	22	11	10	14	16	11	18
19	8	10	18	7	11	10	12	25	28	17	7	4	2	5	3	4	3	4	9	9	8	7	8	10	10
20	8	13	16	13	13	8	8	8	6	7	7	9	11	16	18	26	27	18	10	11	8	9	17	18	13
21	29	40	18	9	7	0	3	7	1	5	5	5	14	10	27	49	49	26	39	72	78	100	99	64	32
22	62	70	48	30	31	30	30	24	26	23	21	17	23	18	19	10	10	11	19	30	34	107	110	85	37
23	63	41	39	38	24	29	31	35	45	54	44	14	14	15	16	12	18	23	17	12	14	20	51	65	31
24	80	46	18	30	39	32	49	53	24	15	16	12	12	25	43	21	18	9	9	9	5	13	16	33	26
25	21	13	24	41	36	33	34	34	26	5	9	12	5	5	3	0	0	1	3	7	3	6	6	4	14
26	6	7	9	9	7	9	12	16	17	20	13	18	12	10	10	19	16	11	10	12	8	19	23	13	13
27	24	7	3	1	7	4	15	8	11	5	3	2	3	1	2	1	3	5	1	1	1	1	2	2	5
28	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
29	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
30	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
31	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	6	6	5	6	5	6	4	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		
17	18	24	18	49	65	85	95	0	-	110	5	-	51	2	88	0

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

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

STATION : VICTORIA PEAK
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2016
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	1	0	0	1	1	3	4	4	4	3	2	3	4	14	25	39	22	23	6	4	3	1	1	7
2	1	1	4	4	1	1	1	1	3	4	3	2	2	14	8	18	15	31	26	8	3	2	1	1	6
3	1	2	1	0	0	1	1	2	2	1	1	1	9	1	6	21	2	3	2	1	2	1	1	1	3
4	1	1	2	1	1	3	1	2	4	3	2	3	12	4	5	1	0	0	1	0	1	0	0	1	2
5	1	1	2	1	3	1	1	2	2	17	4	17	3	2	2	5	5	3	1	0	0	1	0	3	3
6	4	5	3	0	1	1	2	1	1	5	4	4	2	1	1	1	4	3	6	8	9	6	5	3	3
7	3	1	1	1	1	2	2	2	5	11	5	5	6	2	1	4	4	4	3	0	6	3	1	8	3
8	2	2	1	2	0	4	0	3	1	3	3	6	10	15	7	3	2	1	1	1	1	1	1	1	3
9	0	1	1	1	2	1	2	3	2	1	0	M	0	0	0	0	0	0	0	0	0	0	0	0	1
10	0	0	1	1	0	0	0	0	2	5	2	1	1	1	1	3	4	4	2	1	2	1	2	2	2
11	2	3	5	2	1	1	0	0	1	2	5	10	1	7	3	0	1	2	2	1	1	2	1	2	2
12	2	1	1	2	1	0	1	0	0	0	1	1	1	0	2	1	1	1	0	0	0	0	0	1	1
13	1	2	1	1	1	2	1	1	1	1	2	1	1	1	1	1	1	1	2	4	1	0	1	0	1
14	0	0	0	0	0	0	0	0	1	2	5	1	0	0	1	2	1	1	0	0	1	0	0	2	1
15	1	2	1	1	1	1	2	2	2	1	1	2	2	2	9	6	2	3	1	2	1	1	1	1	2
16	0	0	0	0	0	1	1	0	2	3	2	4	3	3	2	3	10	7	2	0	1	0	1	0	2
17	0	0	4	5	1	2	1	1	0	1	6	9	8	14	6	8	9	2	2	2	3	1	0	5	4
18	1	1	2	1	1	1	1	2	1	1	1	2	1	0	0	2	5	3	4	4	4	5	5	10	2
19	2	3	3	1	3	3	3	3	3	3	2	3	3	1	1	1	1	1	1	3	2	1	2	2	2
20	1	1	2	1	0	4	5	2	2	1	1	2	3	4	4	3	7	5	5	5	5	8	5	7	3
21	6	2	6	5	6	11	7	7	7	6	4	7	6	4	6	7	3	11	10	7	6	7	6	5	6
22	6	4	2	0	1	1	6	4	3	6	7	12	6	9	26	20	14	12	4	3	2	2	1	14	7
23	14	17	3	3	1	1	3	2	3	6	15	15	11	8	5	3	11	15	17	14	6	6	6	5	8
24	3	3	4	4	0	1	2	1	1	2	2	62	60	60	26	10	5	7	7	4	4	13	11	8	13
25	6	6	6	4	3	11	4	2	2	6	2	3	1	1	1	9	6	1	2	2	3	2	2	4	4
26	2	1	1	2	1	2	2	3	5	4	6	5	3	4	1	1	3	7	7	3	2	2	4	4	3
27	2	1	2	2	2	2	1	2	2	2	1	1	1	1	1	2	0	1	1	3	2	2	2	0	1
28	1	1	0	0	0	0	0	2	2	2	2	3	7	9	8	4	2	2	2	1	0	1	1	0	2
29	0	0	0	0	0	0	0	0	0	2	3	1	0	3	3	2	1	1	1	2	1	0	0	0	1
30	1	1	3	4	4	2	2	4	5	3	2	3	4	3	2	4	8	5	3	3	5	2	3	4	3

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
3	2	3	2	7	11	17	26	0	-	62	1	-	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: JUNE

STATION : VICTORIA PEAK
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2016
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	18	2	0	0	0	1	3	8	7	5	4	3	5	6	16	23	36	19	28	19	17	14	2	1	10
2	0	M	5	4	0	0	1	5	9	11	7	4	1	14	9	33	27	37	39	18	8	9	8	3	11
3	3	15	18	0	2	1	10	12	15	2	2	1	9	1	7	27	10	14	12	10	12	10	9	2	9
4	1	6	12	4	0	13	3	4	6	6	4	7	13	10	8	10	13	16	24	22	50	41	8	14	12
5	5	2	4	0	10	3	0	15	12	61	21	29	5	4	8	27	42	34	8	11	16	9	4	19	15
6	18	20	10	1	2	1	21	28	40	46	22	52	49	44	44	27	35	28	48	44	28	15	15	16	27
7	8	3	1	0	3	12	16	23	35	40	28	19	21	17	11	17	28	35	23	16	31	24	13	21	19
8	3	2	4	8	3	24	6	30	15	18	23	18	27	33	25	14	21	6	6	2	5	5	3	7	13
9	4	2	1	6	11	0	8	15	15	6	1	M	1	1	0	2	1	3	1	2	1	1	1	1	4
10	0	0	0	0	0	0	0	11	17	31	18	8	5	7	11	19	23	45	19	31	17	20	16	12	13
11	25	37	13	5	27	27	14	8	27	19	27	29	6	19	16	10	11	15	17	9	11	16	20	10	17
12	7	4	10	20	16	5	23	5	10	8	9	13	23	23	42	23	9	11	6	19	15	6	4	6	13
13	2	21	21	29	26	23	3	4	8	6	16	5	2	4	5	2	4	3	19	38	10	2	4	3	11
14	2	0	3	1	1	4	13	8	14	32	27	6	3	6	9	14	15	12	5	2	7	6	4	3	8
15	0	2	0	0	0	0	3	6	7	4	4	7	6	4	29	24	7	17	7	8	6	4	0	4	6
16	1	M	5	14	12	17	13	1	7	8	7	15	16	18	20	27	36	34	14	6	8	11	7	3	13
17	1	0	15	44	24	36	4	24	7	10	24	31	28	36	16	32	24	12	10	10	15	22	10	15	19
18	2	3	3	0	1	2	5	11	4	8	3	11	10	16	8	8	18	13	14	22	16	17	16	23	10
19	10	9	7	3	6	6	9	5	5	3	1	7	2	4	5	7	4	2	5	4	2	1	3	5	5
20	1	2	1	0	0	5	7	4	5	6	7	5	5	9	11	9	14	5	13	15	12	18	11	15	8
21	14	4	10	8	13	16	13	12	9	10	7	13	11	7	6	14	7	13	18	20	21	17	16	14	12
22	13	7	1	0	0	1	7	5	4	6	9	11	8	10	19	26	15	15	10	15	13	13	10	32	10
23	28	35	1	3	0	0	2	5	7	11	19	17	14	9	8	14	18	19	25	32	31	20	18	14	15
24	6	7	4	3	1	1	2	4	10	13	6	24	34	33	23	12	10	11	13	20	16	27	23	39	14
25	11	8	7	4	3	12	5	3	6	12	12	6	3	4	7	7	9	12	11	7	6	17	11	4	8
26	2	4	1	0	0	1	1	6	3	7	8	2	2	5	5	7	7	10	10	5	2	0	8	5	4
27	0	0	0	0	0	2	0	2	5	4	2	1	0	1	2	0	2	1	6	6	7	4	3	6	2
28	2	0	0	0	1	5	11	16	11	7	8	8	13	8	8	10	8	8	8	3	0	1	1	1	6
29	2	0	1	0	0	0	2	4	2	4	7	4	3	6	7	6	7	9	12	17	7	2	1	1	4
30	2	M	8	11	10	2	3	10	11	7	7	4	6	5	5	9	10	9	7	9	14	9	16	11	8

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
8	8	11	8	25	32	40	44	0	-	61	2	-	27	3	99	0

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH: JUNE

YEAR : 2016

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
2	0	0	0	1	3	4	6	0	-	12	0	-	3	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 : NITROGEN DIOXIDE

MONTH: JUNE

YEAR : 2016

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	18	M	2	4	0	2	2	4	3	4	14	19	19	14	15	9	15	17	20	21	24	13	21	13	12
2	10	7	2	1	1	3	1	1	7	4	9	6	7	25	11	10	13	13	23	27	28	30	31	18	12
3	9	18	15	5	3	8	11	6	16	10	2	6	11	16	24	30	19	23	22	27	25	25	35	19	16
4	16	5	7	2	7	17	18	20	13	14	13	14	19	13	20	20	23	34	41	41	14	20	12	1	17
5	1	11	4	0	1	1	0	1	9	12	13	2	15	22	25	39	52	33	21	17	15	20	37	35	16
6	20	9	6	0	0	0	13	20	18	4	5	9	14	15	14	17	41	50	47	42	14	7	4	7	16
7	0	0	0	0	0	0	1	3	1	1	0	1	0	0	1	6	6	2	1	2	1	3	13	9	2
8	1	7	8	0	0	M	M	M	M	M	M	M	M	M	M	M	M	9	2	2	1	2	0	0	
9	2	0	1	0	0	0	1	0	0	0	0	3	0	3	14	9	4	6	0	1	3	4	2	1	2
10	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	2	11	7	12	5	8	8	31	4
11	6	6	14	6	7	2	0	5	12	13	18	10	6	6	5	8	10	4	7	13	16	5	10	20	9
12	27	7	7	10	4	2	11	7	4	4	5	3	7	13	9	12	15	10	11	16	8	14	12	21	10
13	22	16	28	20	7	19	2	2	14	12	11	7	12	16	21	14	8	8	21	38	15	14	10	2	14
14	11	6	14	7	14	10	23	31	37	33	12	4	9	8	2	5	21	33	22	14	8	20	25	6	16
15	4	M	16	3	5	8	6	12	16	18	14	5	5	7	6	11	12	13	17	25	12	9	17	16	11
16	7	9	7	6	1	9	8	1	6	12	10	7	6	5	23	29	18	14	25	26	32	21	23	14	13
17	27	26	14	36	41	5	4	13	4	21	15	20	6	10	4	5	6	11	3	18	4	11	12	1	13
18	4	3	8	7	8	13	15	9	7	9	8	2	8	4	2	5	5	5	13	9	8	4	5	8	7
19	7	8	3	1	1	3	2	3	1	0	0	2	0	0	0	0	1	2	2	8	4	4	8	5	3
20	1	4	1	0	2	0	0	3	4	0	1	3	1	1	1	1	5	7	3	7	4	4	11	9	3
21	3	8	11	12	13	7	8	10	4	5	2	2	2	2	3	6	6	12	3	14	11	10	22	13	8
22	12	9	9	13	5	16	11	10	24	11	12	6	4	3	3	16	7	18	25	20	9	22	25	21	13
23	32	47	28	20	12	10	4	5	7	15	24	20	13	14	12	14	10	7	11	16	19	12	6	4	15
24	2	6	13	15	18	27	12	8	8	10	20	13	9	19	9	1	3	1	5	10	13	11	12	11	11
25	14	8	6	2	4	7	2	1	4	3	M	0	0	0	0	0	0	0	0	0	0	0	0	0	2
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	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
28	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	0
30	2	2	2	3	6	2	9	9	13	9	6	20	21	8	10	9	3	4	4	8	7	5	10	2	7

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL		
8	6	9	6	21	27	35	41	0	-	52	0	-	17	3	98	0

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

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

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2016
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	1	1	3	4	2	2	2	3	1	2	1	3	3	2	1	1	1	1	0	2
2	0	0	0	1	1	1	1	1	2	3	3	2	2	4	1	4	6	5	7	3	2	1	1	1	2
3	0	1	1	1	0	1	1	1	1	1	1	1	2	1	2	5	3	3	3	2	2	1	1	1	2
4	2	2	2	1	1	2	2	2	2	1	1	1	2	2	0	1	1	2	2	1	1	1	1	1	1
5	0	2	6	4	5	2	1	2	1	1	2	3	2	4	5	4	4	2	1	1	0	3	3	4	3
6	3	3	2	1	1	9	6	3	6	5	4	5	3	2	2	5	7	5	6	9	7	5	3	2	4
7	2	2	1	1	1	1	2	4	15	6	3	2	5	2	1	2	1	2	2	1	1	2	3	4	3
8	2	2	2	1	1	1	1	1	2	2	4	5	6	5	4	2	2	1	1	1	1	1	1	1	2
9	1	1	1	1	1	0	1	7	7	3	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1
10	1	1	1	1	1	1	2	3	3	1	3	1	1	1	2	2	2	2	2	2	2	2	2	2	2
11	2	2	3	2	1	1	1	1	1	1	1	2	1	2	1	2	2	2	2	1	2	2	2	3	2
12	3	2	2	1	1	1	1	1	1	1	0	1	1	1	1	1	2	1	1	1	1	0	1	1	1
13	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	1	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	1	1	1	2	1	1	1	2	1
16	1	1	1	0	0	0	1	1	0	1	1	1	1	2	3	4	4	2	4	4	4	1	2	6	2
17	4	5	10	10	4	2	3	5	6	7	3	5	4	2	4	5	1	5	2	1	3	1	6	4	4
18	2	3	3	2	3	4	5	3	2	2	4	3	3	2	1	3	5	4	7	4	4	4	5	7	4
19	3	3	3	4	5	2	4	2	2	2	2	2	1	1	1	1	1	1	1	2	1	1	1	2	2
20	1	2	2	2	1	2	4	3	2	2	4	4	3	4	3	3	5	6	6	8	9	5	1	8	4
21	14	10	10	9	10	13	12	14	9	9	8	8	8	6	6	7	6	7	9	12	12	13	10	5	9
22	7	6	5	4	3	3	3	5	5	4	6	8	2	5	4	3	2	5	6	3	8	3	3	6	5
23	15	25	11	5	2	2	3	3	4	4	5	2	4	5	3	4	7	7	15	11	4	4	4	4	6
24	4	5	5	3	2	6	4	2	2	2	3	3	8	7	6	4	3	3	3	3	7	6	5	4	4
25	3	4	4	3	3	3	4	3	21	35	6	8	7	2	6	2	3	3	1	2	1	2	2	5	
26	1	1	1	1	1	1	2	3	2	4	3	3	3	3	2	1	2	3	3	1	1	1	1	2	2
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1
28	0	0	0	0	0	2	1	2	2	3	3	4	3	3	2	1	4	3	2	1	1	1	1	1	2
29	1	1	1	1	1	1	1	1	2	2	2	1	1	2	2	2	2	1	2	2	2	1	1	1	1
30	1	2	3	4	3	2	2	4	4	2	2	1	3	3	3	3	3	2	1	3	4	2	2	5	3

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL	
2	2	3	2	6	8	11	14	0	-	35	0	-	9	2	100	0	

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

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

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH: JUNE

YEAR : 2016
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	M	7	7	10	12	17	22	20	17	15	16	19	12	16	16	25	16	19	17	16	17	12	9	15
2	10	8	13	12	9	9	18	19	19	22	20	20	17	19	16	22	26	22	30	18	18	20	18	15	18
3	11	20	21	9	8	9	22	20	17	16	16	13	16	16	19	26	22	21	21	20	19	18	22	17	17
4	18	16	17	12	14	20	16	16	17	16	16	19	17	17	20	30	39	39	48	50	51	49	45	30	26
5	24	36	43	40	41	16	17	25	25	21	31	25	20	27	32	43	48	37	21	31	37	36	32	32	31
6	26	24	19	14	15	42	43	41	47	45	34	40	45	36	42	45	50	41	53	55	42	33	25	23	37
7	25	17	14	14	12	13	32	31	34	33	26	25	31	20	16	25	16	22	30	24	25	27	30	29	24
8	19	20	15	15	21	18	43	36	44	32	33	32	33	29	20	21	23	27	27	36	25	19	18	17	26
9	17	15	13	12	15	15	18	29	29	27	21	19	17	18	15	15	16	16	14	14	14	15	13	13	17
10	12	10	9	10	10	13	29	28	25	20	23	16	15	16	17	21	23	43	47	42	34	25	26	28	23
11	26	22	22	16	26	21	23	34	37	31	30	32	23	25	26	27	35	30	26	25	26	26	32	31	27
12	30	23	21	17	20	16	25	21	19	20	20	23	23	38	38	29	32	30	24	24	21	24	22	21	24
13	19	21	19	22	24	26	20	20	29	26	30	26	20	19	17	17	16	14	20	22	19	19	22	17	21
14	17	15	12	10	16	16	25	20	24	34	24	14	15	19	22	29	22	25	21	19	29	27	23	12	20
15	13	M	12	11	11	14	18	21	19	17	15	16	15	14	22	22	23	21	19	19	17	15	12	15	17
16	12	11	15	20	16	19	21	14	18	17	15	17	18	34	44	45	41	38	38	44	35	34	42	44	27
17	37	27	37	41	28	29	28	40	36	29	27	24	27	27	20	24	26	21	24	19	13	20	17	25	27
18	17	19	14	14	17	20	23	21	19	19	20	19	21	25	22	24	27	25	34	30	31	28	22	22	22
19	17	15	15	15	18	15	17	12	14	14	13	15	14	12	12	12	15	17	14	14	14	14	14	14	14
20	11	11	10	9	8	12	15	17	14	14	16	17	12	12	13	15	16	21	21	26	27	20	21	25	16
21	21	17	18	16	19	22	23	23	16	18	17	17	16	14	17	17	17	18	21	24	30	28	27	25	20
22	28	21	17	14	12	14	18	20	18	19	22	24	11	18	16	18	18	21	21	15	25	22	22	27	19
23	36	45	28	17	11	12	17	18	17	20	21	17	17	17	14	17	23	23	34	31	23	23	24	21	22
24	26	24	20	16	15	21	23	19	15	13	18	16	19	21	21	19	18	18	14	17	23	27	30	28	20
25	26	19	16	12	15	17	18	18	24	29	21	21	15	12	21	15	16	19	18	17	16	16	15	15	18
26	14	12	10	9	10	11	13	17	15	18	16	18	16	17	14	12	15	16	17	16	15	13	17	16	14
27	12	9	9	9	9	10	13	14	16	18	20	17	11	16	17	17	15	18	19	17	18	13	13	10	14
28	9	8	7	7	10	16	17	21	18	15	16	17	19	16	16	17	19	22	21	15	12	11	12	12	15
29	11	M	12	10	10	9	14	22	23	23	22	21	18	25	22	18	23	22	23	23	18	13	14	13	18
30	16	15	21	24	18	13	15	25	21	20	19	16	20	21	20	21	22	18	23	26	28	20	24	23	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
20	19	21	19	32	40	45	48	7	-	55	14	-	37	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: JUNE

STATION : POK FU LAM
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2016
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	1	1	0	0	M	2	0	0	0	0	0	0	0	0	0	0	6	0
2	5	5	7	5	5	2	5	5	9	14	10	9	8	11	3	3	6	2	3	4	5	3	2	6	6
3	3	3	5	3	5	4	4	6	3	7	8	4	2	3	5	6	14	10	6	7	7	7	6	8	6
4	9	5	7	3	6	8	6	10	8	3	6	4	6	6	1	2	1	2	7	4	3	2	1	1	5
5	0	5	16	5	7	1	0	2	1	0	3	18	4	15	13	10	8	4	0	0	1	0	2	4	5
6	4	6	4	3	3	2	3	1	8	5	4	5	1	0	1	9	23	8	11	11	10	6	5	5	6
7	5	3	2	3	4	3	2	3	30	18	28	17	19	6	3	8	6	7	6	3	2	4	9	9	8
8	4	7	5	1	1	1	1	2	8	1	12	22	26	25	13	4	4	2	2	1	2	3	2	2	6
9	2	2	2	1	1	1	7	17	28	30	4	1	0	1	0	0	0	0	0	0	0	1	0	2	4
10	1	1	1	2	1	1	10	24	16	19	23	7	2	2	4	3	9	7	5	4	6	3	3	5	7
11	2	4	7	2	1	1	1	1	1	0	1	1	1	2	1	1	2	2	2	2	3	2	4	5	2
12	7	3	3	2	3	1	2	1	1	1	1	2	1	0	2	4	3	3	2	3	4	1	3	5	2
13	4	6	3	4	4	4	6	5	10	6	4	5	3	6	4	2	2	3	2	6	4	3	6	3	4
14	3	5	5	3	5	7	6	7	7	8	7	2	2	4	7	9	6	9	4	2	6	7	4	4	5
15	4	8	4	4	4	5	6	5	8	7	5	9	3	7	6	4	3	4	6	6	3	3	3	4	5
16	4	4	4	2	5	4	6	6	11	9	4	5	4	6	5	17	7	2	8	11	11	2	1	2	6
17	3	9	14	16	4	7	3	4	10	11	11	12	5	7	5	7	11	6	9	9	3	7	2	13	8
18	2	4	5	2	4	7	6	5	5	2	7	5	7	2	1	5	13	22	16	8	9	9	8	15	7
19	6	6	6	7	9	6	7	5	6	7	4	7	4	3	2	2	2	1	2	3	3	2	2	3	4
20	2	3	3	2	2	6	7	3	6	3	5	7	6	10	15	14	18	19	14	18	15	13	7	10	9
21	11	8	8	11	10	13	13	14	15	18	10	4	8	4	3	7	3	5	5	16	10	15	9	10	10
22	10	11	9	5	4	3	4	7	15	12	15	26	4	7	6	4	3	10	9	6	7	4	3	8	8
23	15	29	14	8	2	3	6	5	9	7	11	6	12	7	6	9	17	21	29	12	7	8	6	6	11
24	6	7	9	7	4	6	7	4	1	1	11	9	21	23	16	16	7	9	8	5	5	12	12	10	9
25	8	8	9	5	7	7	9	6	32	102	26	6	6	8	13	6	7	15	3	3	3	4	4	3	13
26	2	2	2	2	2	3	2	5	7	6	4	10	6	12	4	2	3	14	6	3	3	2	3	5	5
27	3	2	2	2	3	3	2	2	3	2	2	2	2	2	1	1	3	2	2	2	2	2	2	2	2
28	1	1	1	1	0	2	1	1	2	3	D	D	11	12	17	16	14	15	13	12	11	11	11	1	7
29	0	1	2	0	1	1	1	1	4	M	5	3	1	5	3	3	0	1	2	3	2	1	0	0	2
30	1	3	5	5	3	2	5	7	9	4	4	3	3	6	5	9	8	5	2	4	10	2	4	9	5

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
4	4	6	4	12	16	23	28	0	-	102	0	-	13	2	99	0

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

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

STATION : POK FU LAM
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2016
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	13	6	5	13	14	20	24	24	18	15	M	25	9	7	6	8	9	8	6	8	8	11	17	12
2	15	12	15	13	15	8	18	23	30	30	19	16	14	16	10	9	13	10	14	14	17	14	11	22	16
3	10	7	10	9	12	9	11	17	13	21	17	12	10	15	13	13	21	20	20	20	25	24	24	27	16
4	31	14	18	8	19	21	18	23	21	13	11	12	9	13	18	30	37	51	70	71	69	70	69	53	32
5	23	51	63	43	55	10	7	25	20	13	33	40	15	33	38	52	63	49	27	31	62	40	55	41	37
6	28	25	22	22	13	16	55	50	64	66	39	66	52	44	56	67	82	57	68	68	42	30	26	22	45
7	34	6	2	7	32	26	22	34	47	47	32	21	33	11	9	21	24	37	31	22	21	18	20	18	24
8	7	16	11	10	19	11	31	20	49	31	32	35	34	32	22	17	23	19	29	30	21	9	6	7	22
9	3	3	2	8	13	15	33	32	37	36	19	6	3	4	4	5	7	7	5	6	6	5	4	9	11
10	4	1	0	2	4	8	31	40	37	37	27	10	4	6	7	10	21	45	49	47	26	22	22	27	20
11	14	29	15	3	24	36	25	35	39	36	26	26	20	26	21	22	24	28	33	21	27	18	33	22	25
12	24	20	18	20	20	7	24	20	26	17	7	20	21	22	38	34	18	17	15	17	13	13	12	27	20
13	17	22	7	9	9	10	22	15	30	15	20	13	9	15	9	7	6	8	11	27	23	15	14	10	14
14	6	6	8	8	16	18	14	20	25	18	11	10	9	16	19	25	20	18	16	11	22	22	16	12	15
15	4	15	5	3	2	5	13	15	20	22	16	15	8	17	10	8	7	11	17	17	12	9	8	15	11
16	9	13	11	4	6	5	10	13	24	15	11	10	10	40	35	55	37	26	32	38	39	35	29	28	22
17	14	22	37	53	29	46	22	39	44	25	28	23	12	17	8	9	14	12	18	18	14	21	12	33	24
18	8	16	9	6	8	16	13	16	11	13	21	16	13	16	11	15	24	27	34	20	24	26	17	26	17
19	14	M	11	10	11	9	11	6	5	7	7	7	4	4	2	2	6	6	8	6	5	4	4	10	7
20	3	5	3	1	0	9	8	6	14	6	6	7	4	7	13	13	13	22	23	33	30	21	12	21	12
21	21	13	13	14	13	17	20	20	15	14	12	4	8	2	3	7	5	5	11	27	23	29	18	36	15
22	20	21	16	6	4	6	10	16	22	13	16	21	4	9	7	6	6	17	21	19	24	18	10	25	14
23	31	55	31	14	4	7	11	8	14	10	13	10	16	10	9	11	15	23	34	27	15	14	13	14	17
24	14	15	19	10	6	14	15	7	3	5	13	10	16	19	17	13	8	13	13	13	18	31	34	40	15
25	27	12	13	6	8	11	16	13	27	40	23	4	3	7	11	7	8	17	6	8	8	9	8	8	13
26	5	5	2	1	1	3	3	5	8	7	2	5	3	8	3	2	4	13	10	7	7	3	10	12	5
27	3	0	0	1	1	3	4	6	11	10	10	7	6	8	6	5	10	13	18	24	17	14	5	11	8
28	5	2	0	0	6	17	17	23	17	14	D	D	23	12	8	9	11	12	13	8	4	3	5	5	10
29	3	3	5	2	3	2	3	9	14	M	11	9	9	18	13	M	9	10	14	17	11	6	6	10	9
30	12	13	24	22	16	12	18	28	27	17	11	10	10	13	15	21	17	18	22	25	34	17	26	28	19

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
13	14	18	14	34	45	61	68	0	-	82	5	-	45	2	99	0

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

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

STATION : AP LEI CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2016
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1																									
2																									
3																									
4																									
5																									
6																									
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AMBIENT AIR MONITORING AT AP LEI CHAU TEMPORARILY SUSPENDED

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

STATION : AP LEI CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2016
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																									
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AMBIENT AIR MONITORING AT AP LEI CHAU TEMPORARILY SUSPENDED

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

STATION : CHEUNG CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2016
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	3	4	4	3	3	1	3	0	0	0	0	0	0	0	0	1	1	3	1
2	2	3	2	3	7	3	2	3	3	5	7	3	3	3	2	1	1	1	1	1	1	1	1	1	3
3	0	0	1	1	1	1	1	3	2	2	2	1	1	1	1	1	1	1	1	0	0	0	1	3	1
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	2	0
5	2	2	3	2	1	1	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	1	6	1
6	5	4	3	4	3	5	0	0	0	1	1	2	0	4	7	4	3	1	5	5	2	2	1	5	3
7	5	4	5	5	3	4	5	7	6	9	5	4	8	12	15	5	14	6	5	5	4	3	5	7	6
8	3	0	0	0	0	0	0	0	0	1	4	0	1	0	8	13	4	1	5	4	4	3	2	7	3
9	5	8	7	7	9	6	8	10	10	7	1	3	2	1	3	4	5	1	1	2	2	1	3	3	5
10	4	1	2	2	2	1	3	8	6	1	1	4	1	5	9	6	0	0	0	0	0	0	0	1	2
11	0	3	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
12	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
13	0	0	0	0	0	0	0	2	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
16	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
17	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
18	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
19	0	0	0	0	0	0	0	1	4	10	5	2	7	2	0	2	3	1	3	3	0	0	0	3	2
20	0	0	0	2	0	0	1	4	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	2	1
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
22	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
23	0	0	0	0	0	0	1	3	2	4	3	2	0	0	0	0	0	0	0	0	0	0	0	3	1
24	0	0	0	0	0	0	0	1	1	0	1	0	2	1	0	0	0	0	0	0	0	0	0	3	0
25	2	7	8	6	6	5	3	4	4	1	10	8	1	7	28	9	12	3	1	0	1	0	0	3	5
26	1	0	0	0	0	0	0	3	3	2	6	7	6	5	2	2	7	0	0	0	0	0	0	3	2
27	0	0	0	1	0	2	2	3	3	3	1	1	1	0	0	0	0	0	0	0	1	0	0	8	1
28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	3	0	0	1	0	0	0	0	2	1
29	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
3	0	1	0	4	7	8	10	0	-	28	0	-	6	2	100	0

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

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

STATION : CHEUNG CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2016
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	3	4	13	20	22	16	14	14	16	14	14	12	11	9	8	10	6	10	12	9	10	5	11
2	7	10	2	21	28	11	4	9	7	10	16	6	6	4	0	1	0	0	1	1	1	0	0	3	6
3	2	1	2	2	1	5	3	8	1	4	1	1	2	3	1	3	2	3	2	1	3	3	8	5	3
4	13	7	4	1	11	13	4	9	5	0	0	0	0	1	4	6	13	36	44	54	60	36	31	29	16
5	26	29	54	52	32	16	25	22	9	25	14	20	25	20	28	55	85	36	42	35	42	46	57	71	36
6	69	74	74	68	57	86	56	53	57	46	24	56	60	70	76	75	72	68	70	44	28	27	23	39	57
7	47	24	30	30	32	34	43	42	40	28	8	5	10	13	18	3	26	17	21	19	22	18	65	37	26
8	28	12	2	4	2	3	18	26	35	41	35	5	6	5	13	15	6	5	21	21	22	12	13	23	16
9	25	49	44	40	48	55	55	52	46	24	3	5	3	2	7	10	14	7	6	12	15	11	15	13	23
10	18	8	18	29	38	42	41	34	20	3	3	8	3	5	8	5	2	15	10	10	8	3	9	6	14
11	51	53	35	23	2	9	18	17	17	31	6	2	4	1	2	1	3	3	9	17	24	6	2	5	14
12	4	2	3	3	2	5	7	2	2	2	4	2	2	2	5	26	12	18	10	17	9	10	7	9	7
13	6	8	6	3	7	3	11	17	26	16	15	8	5	6	4	3	4	5	8	10	7	3	2	3	8
14	1	2	4	3	6	4	2	3	4	2	2	3	1	1	10	3	8	2	2	5	8	4	5	3	4
15	2	M	16	7	3	7	3	7	4	4	3	3	2	2	2	2	2	2	3	11	4	2	1	4	4
16	5	7	4	4	5	5	4	7	5	5	8	6	6	18	20	6	9	26	19	29	16	47	54	36	15
17	50	48	44	14	13	15	34	17	40	26	18	19	6	6	10	8	6	6	7	4	6	11	5	6	17
18	4	4	5	5	6	11	6	3	9	4	4	5	6	3	14	7	3	3	4	4	4	4	13	7	6
19	10	16	10	10	4	4	7	16	13	12	8	7	9	4	5	7	7	6	13	14	7	4	7	10	9
20	9	10	8	15	20	20	22	20	15	8	7	3	3	3	3	3	3	3	6	4	3	4	4	9	9
21	8	18	14	20	23	27	19	23	18	10	4	3	3	3	3	3	3	3	4	5	15	5	21	11	
22	14	6	14	11	15	33	23	26	15	7	7	6	5	2	2	4	3	4	5	8	10	9	19	43	12
23	42	29	46	41	33	25	37	31	14	9	6	8	1	1	1	1	1	2	7	14	24	23	29	20	19
24	38	24	32	17	27	35	38	32	28	5	3	2	3	2	3	2	2	2	2	6	10	18	43	43	17
25	26	37	37	37	34	38	32	26	22	16	16	11	4	7	20	7	11	5	3	3	12	3	5	7	17
26	6	4	1	2	1	4	9	15	25	17	8	8	6	5	2	3	11	2	1	1	1	1	3	4	6
27	2	2	5	10	10	18	22	19	18	6	1	1	0	0	0	0	1	1	0	1	9	9	3	20	7
28	6	3	1	3	6	5	19	15	7	5	2	2	2	6	18	18	4	4	7	3	3	3	2	1	6
29	7	M	6	1	0	0	1	6	8	4	3	2	1	2	0	0	7	20	38	45	30	9	9	9	9
30	3	4	0	3	6	0	1	0	1	0	0	0	0	0	1	0	1	3	5	9	5	9	1	3	2

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR			24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
8	7	14	7	37	47	60	71	0	-	86	2	-	57	3	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 : April – June 2016

Week Ending	No. of Samples	Suspended Solids, mg/L			pH		
		Maximum	Minimum	Average	Maximum	Minimum	Average
02/04/16	6*	21	12	16	8.2	8.0	8.1
09/04/16	5*	18	11	14	8.2	8.0	8.1
16/04/16	4*	16	11	13	8.2	8.1	8.2
23/04/16	5*	20	14	17	8.2	8.1	8.1
30/04/16	4*	15	12	14	8.1	8.0	8.1
07/05/16	5*	20	13	15	8.2	8.0	8.1
14/05/16	4*	16	12	15	8.1	8.1	8.1
21/05/16	5*	22	13	19	8.2	8.0	8.1
28/05/16	5*	20	12	16	8.2	8.0	8.1
04/06/16	6*	22	13	16	8.1	7.9	8.0
11/06/16	4*	21	13	18	8.1	7.9	8.0
18/06/16	4*	21	14	17	8.1	7.9	8.0
25/06/16	2*	16	16	16	8.1	8.0	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 : April – June 2016

Sampling date		7/4/2016	5/5/2016	3/6/2016
Barium,	ug/L	<150	<150	<150
Mercury,	ug/L	<0.5	<0.5	<0.5
Cadmium,	ug/L	4	<1	<1
Iron,	ug/L	<400	<400	<400
Total Phosphorous,	mg/L	<0.8	<0.8	<0.8
Total Nitrogen,	mg/L	61	14	84
Cyanide,	mg/L	<0.01	<0.01	<0.01

Remark:

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

Appendix D Summary of EMIS

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