

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



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

Operational Phase

Quarterly Environmental Monitoring & Audit Report

October – December 2020

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



ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499

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

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

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

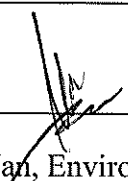
Report Title	Quarterly EM&A Report (October to December 2020)
Date	29 March 2021
Certified by	 (Mr. IP Tat-Yan, Environmental Team Leader)

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EXECUTIVE SUMMARY

This is the quarterly Environmental Monitoring and Audit (EM&A) report for the Projects “Lamma Power Station Units L4 & L5 Flue Gas Desulphurization Plant Retrofit” and “Lamma Power Station Unit L2 Flue Gas Desulphurization Plant Retrofit” prepared by the Environmental Team (ET). This report presents the results of impact monitoring on air and water quality and environmental audit for the operation of the said projects in the period from October to December 2020.

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	13/10/2020 00:00 to 28/10/2020 20:17	Unit overhaul
L2	11/12/2020 21:08 to 14/12/2020 14:04	BCW system pipeline leak repair
L4	16/11/2020 09:00 to 20/11/2020 04:42	Water wall panel to repair
L5	7/12/2020 00:30 ~ 31/12/2020 23:59	Unit overhaul

Malfunction/Outage Records of Pollution Control Equipment

There were no major outages of the Pollution Control Equipment during the reporting period.

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	EP-248/2006	25/04/2006	-	HK Electric	25/04/2006

Description	Permit / Licence No.	Valid Period		Issued To	Date of Issuance
		From	To		
L4/5 FGD plants retrofit project					
Environmental Permit for Unit L2 FGD plant retrofit project	EP-287/2007	02/10/2007	-	HK Electric	02/10/2007
Specified Process Licence issued under APCO	L-7-002(12)	01/01/2019	31/12/2020	HK Electric	17/12/2018
WPCO discharge licence for Ash Lagoon	WT00027218-2017	24/02/2017	31/12/2021	HK Electric	24/02/2017

Implementation Status of Environmental Mitigation Measures

Environmental mitigation measures were implemented in the reporting period.

Environmental Complaints / Feedback Cases

During the reporting period, there was one environmental feedback case regarding the operation of Lamma Power Station (LPS) as detailed in Section 4.6. The reported issue was satisfactorily addressed.

Future key issues

Key issues to be considered in the coming months include:

Air Impact

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

Water Impact

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

Concluding Remarks

The environmental performance of the projects was generally satisfactory.

1. INTRODUCTION

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

This report summarizes the environmental monitoring and audit work for the said Projects for the period from October to December 2020.

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	13/10/2020 00:00 to 28/10/2020 20:17	Unit overhaul
L2	11/12/2020 21:08 to 14/12/2020 14:04	BCW system pipeline leak repair
L4	16/11/2020 09:00 to 20/11/2020 04:42	Water wall panel to repair
L5	7/12/2020 00:30 ~ 31/12/2020 23:59	Unit overhaul

1.4 Malfunction/Outage Records of Pollution Control Equipment

Equipment	Period	Cause	Actions Taken
L2 FGD	12:04 on 21/11/2020 to 12:30 on 21/11/2020	FGD plant was bypassed due to low flue gas temperature at FGD plant inlet	EPD was informed on 25/11/2020
L4 FGD	13:14 on 31/12/2020 to 13:19 on 31/12/2020	Routine Dampers Exercise	EPD was informed on 04/01/2021

1.5 Summary of EM&A Requirements

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

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

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

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

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

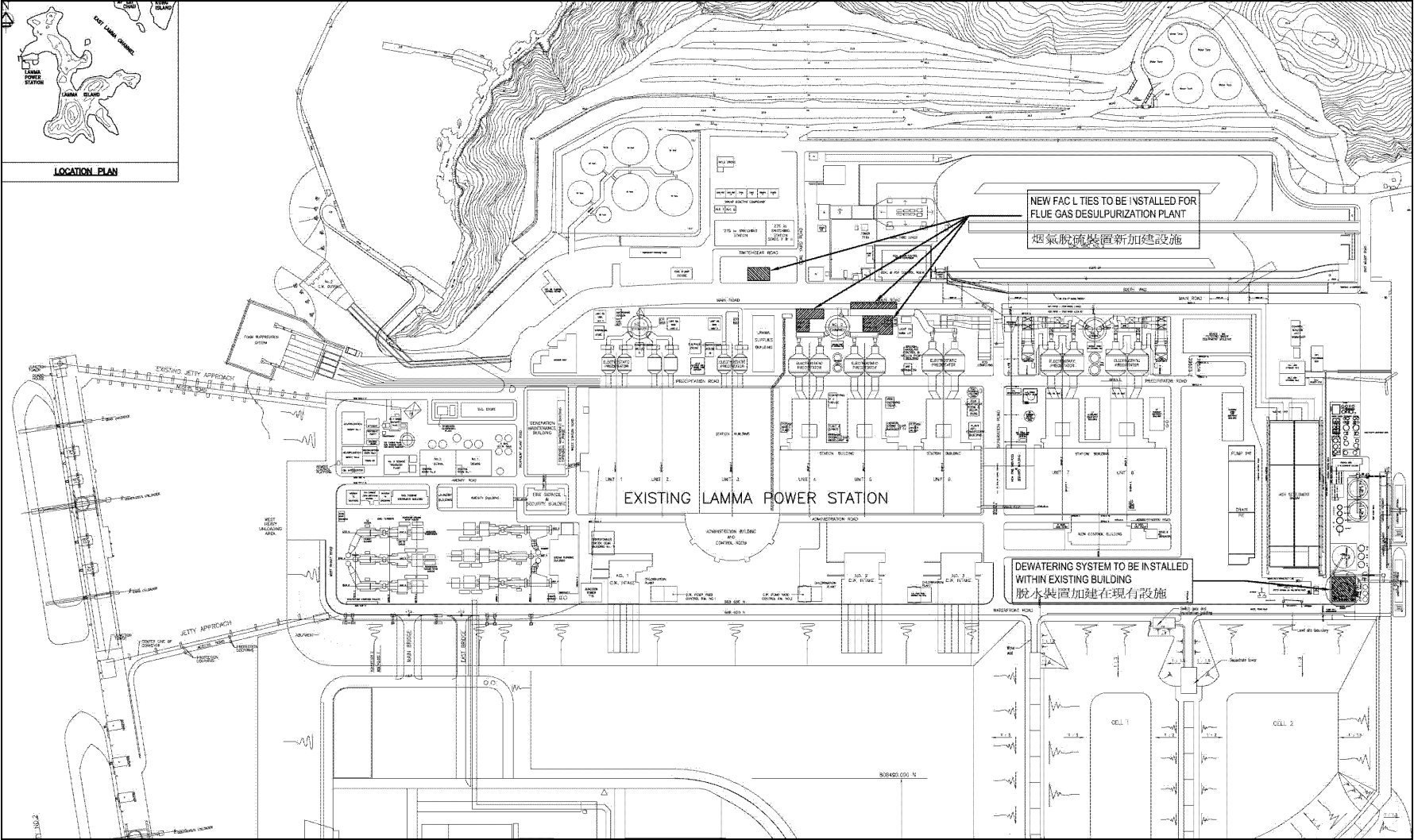


Figure 1.1a Location of New Facilities for L4 & L5 FGD Plants

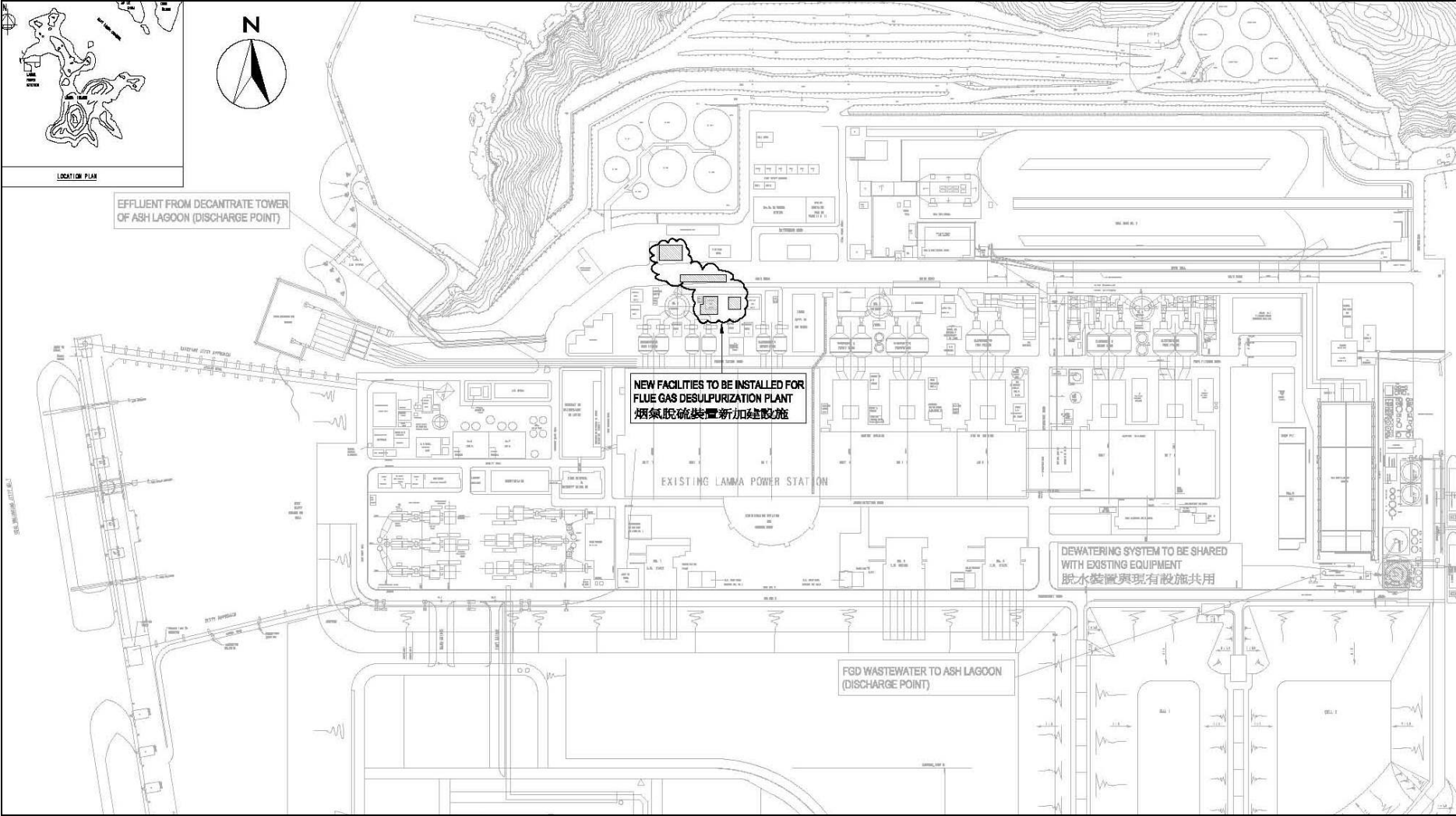


Figure 1.1b Location of New Facilities for L2 FGD Plant

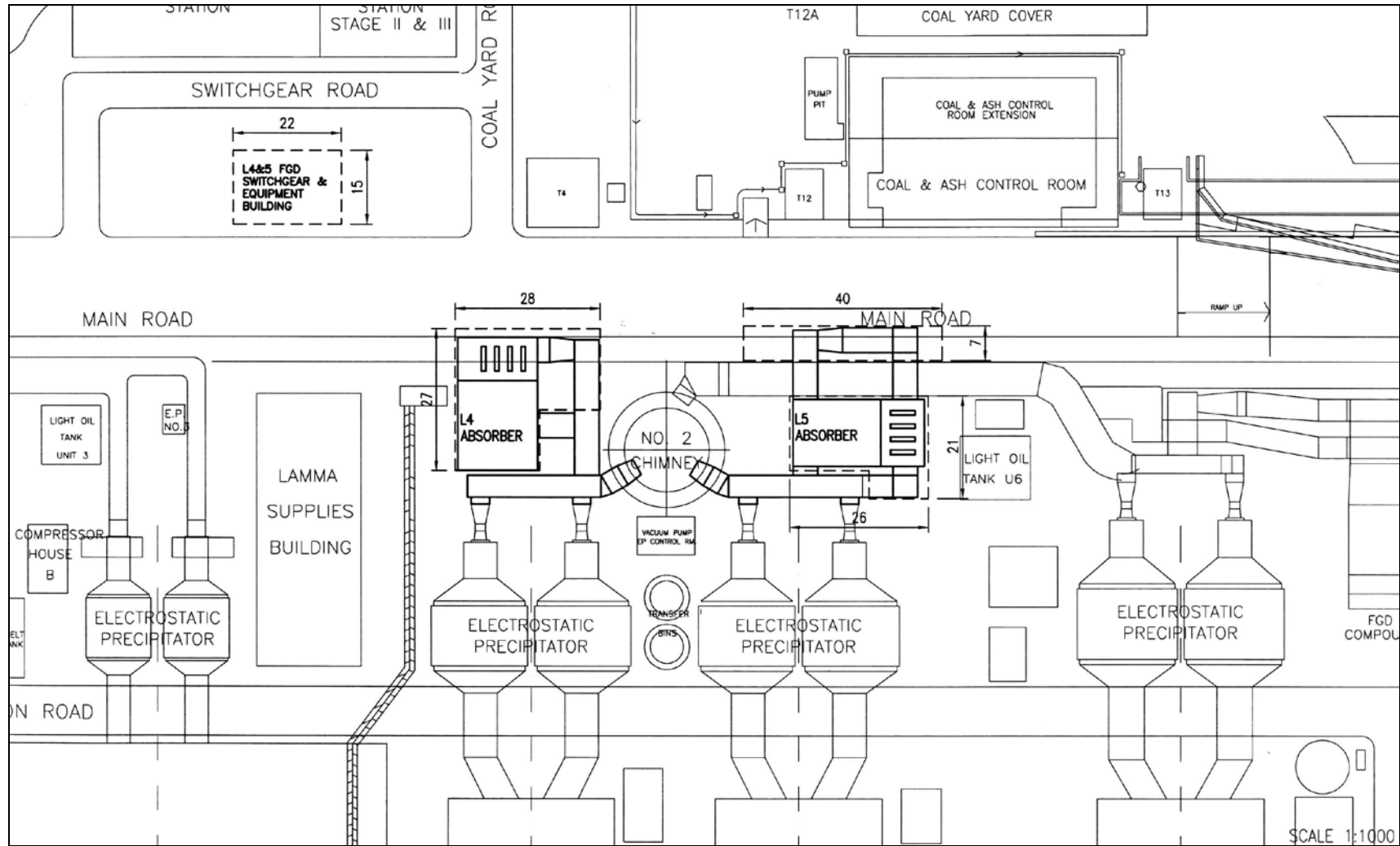


Figure 1.2a General Arrangement of L4 & L5 FGD Plants

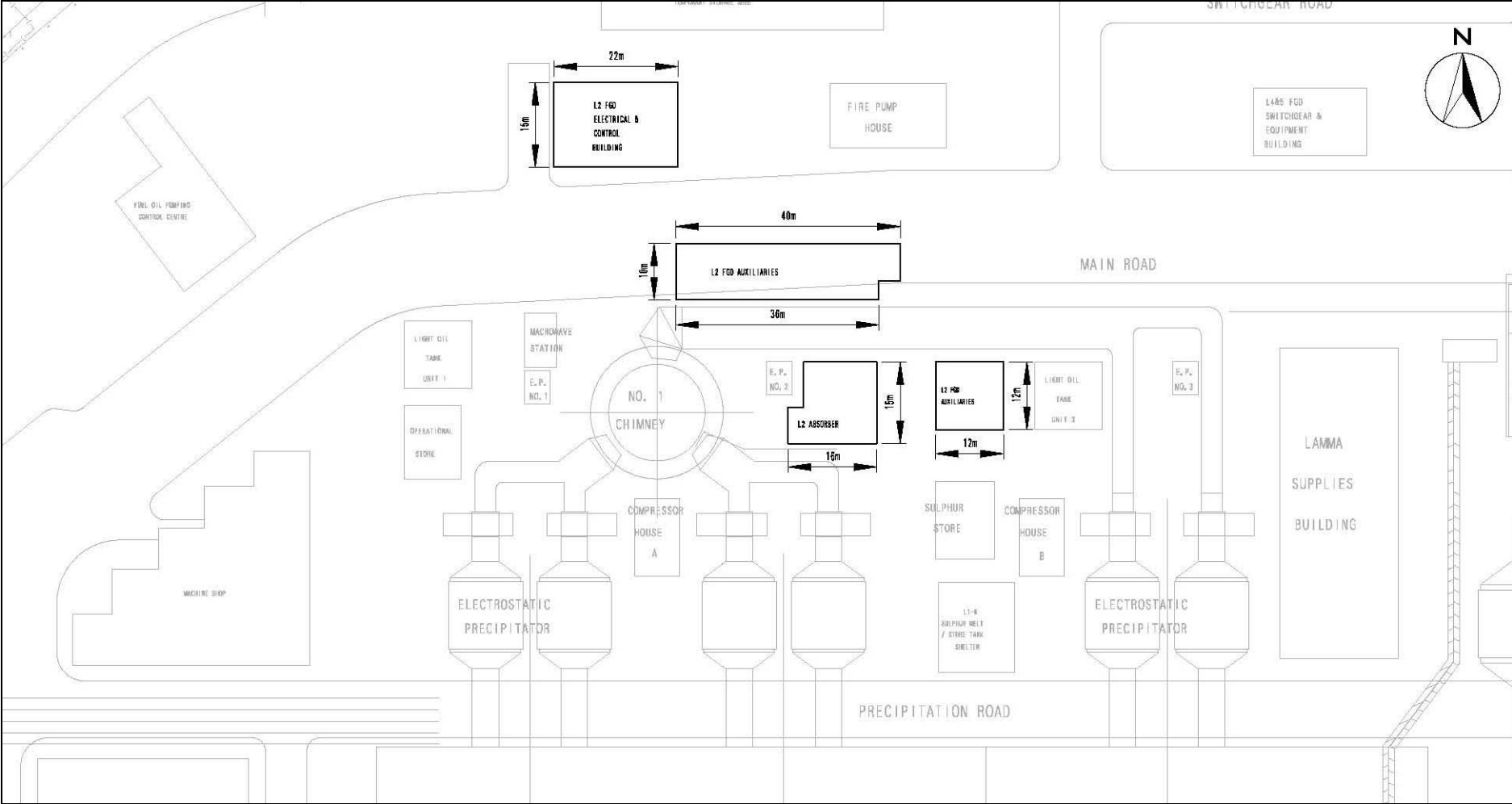


Figure 1.2b General Arrangement of L2 FGD Plant

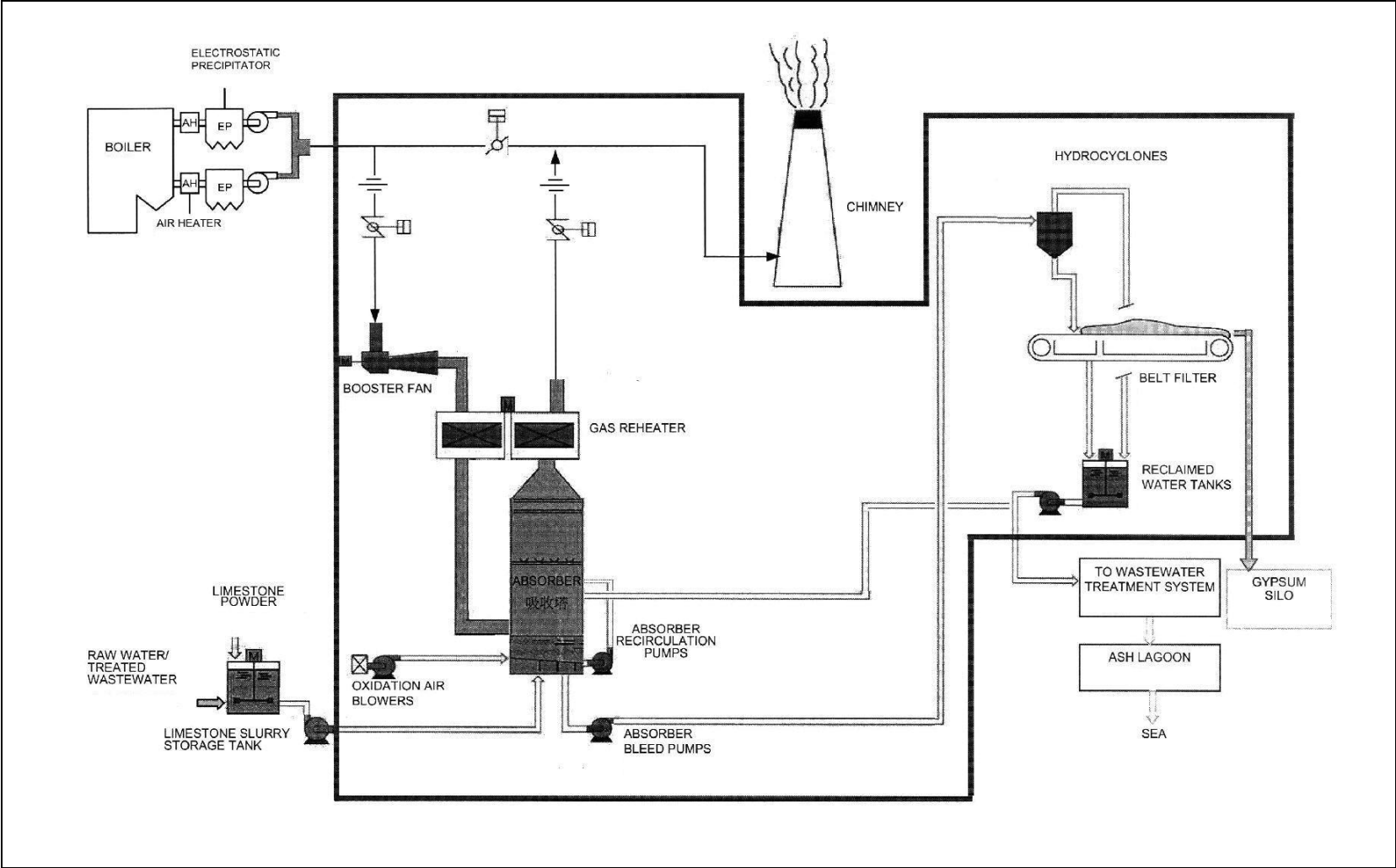


Figure 1.3 Schematic Diagram of the L2, L4 & L5 FGD Plant

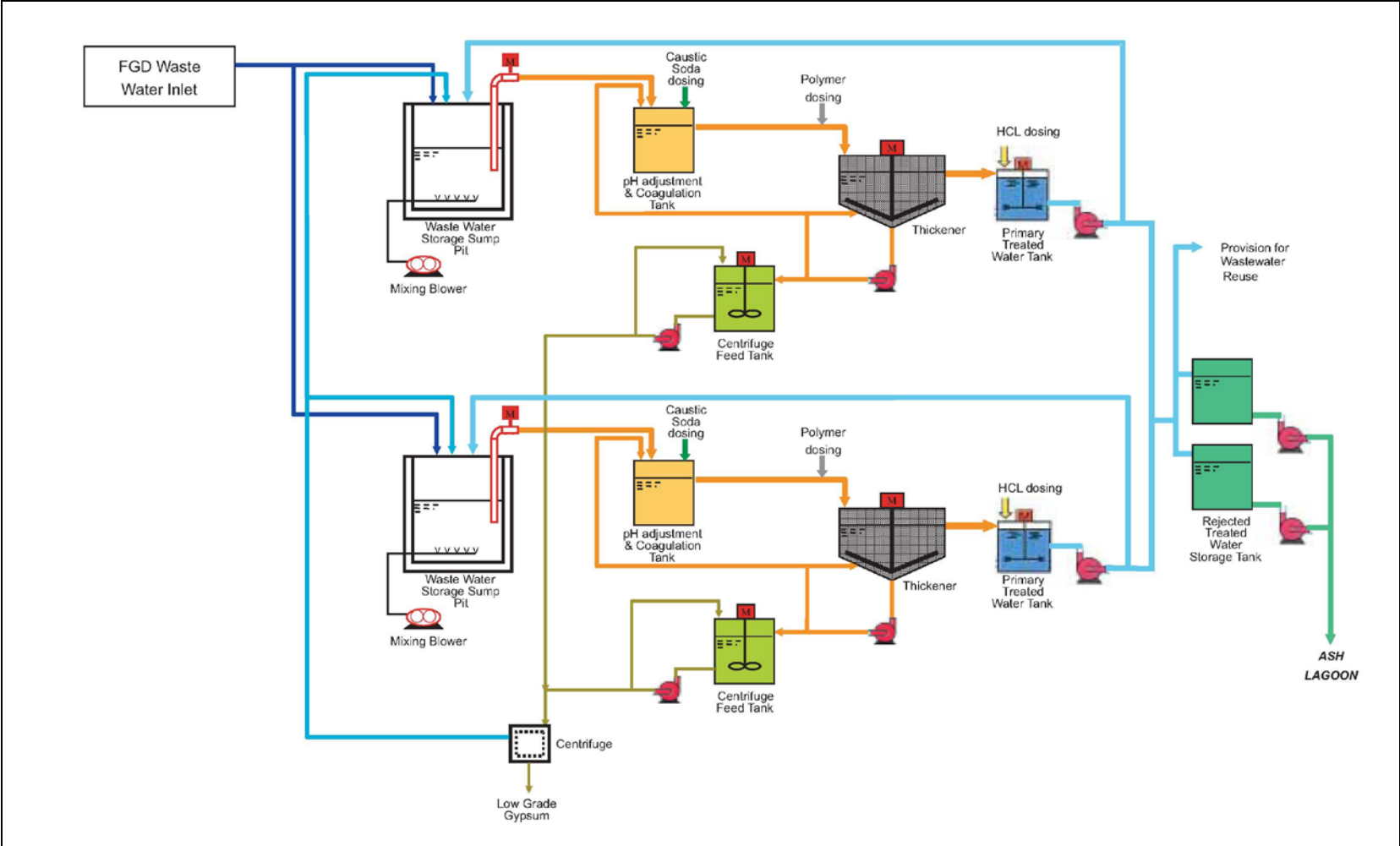


Figure 1.4 Simplified Schematic Diagram of FGD Wastewater Treatment Plant

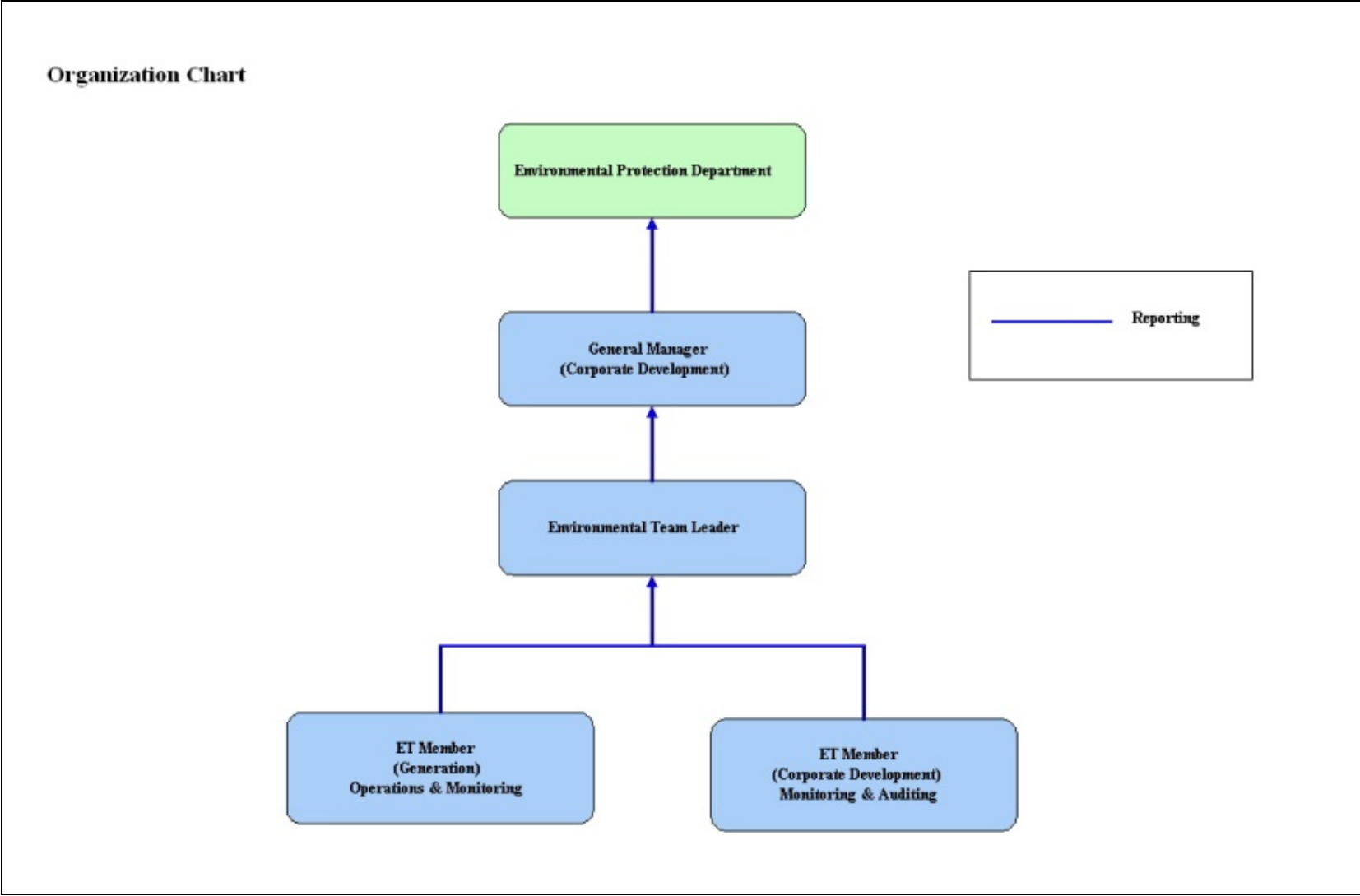


Figure 1.5 Organization Structure at Operational Phase of the Projects

2. AIR QUALITY

2.1 Monitoring Requirements

Since the Projects will bring a general air quality improvement, no additional EM&A activities are considered required, besides those already in place, such as those required by specified process licenses for the operation of the existing Lamma Power Station. Total Suspended Particulate (TSP) monitoring at East Gate and Reservoir area of Lamma Power Station is no longer required under the current SP Licence L-7-002(12) commencing from January 2019. It is agreed with EPD that the results of continuous Respirable Suspended Particulate (RSP) monitoring at Lamma Power Station would be reported. In accordance with the requirements stipulated in the Specified Processes Licence issued under Air Pollution Control Ordinance, various operation parameters as stated in [Table 2.1](#) were monitored. Those parameters have to be checked against the Action/Limit Levels are shown in [Appendix A](#).

Table 2.1 Air Quality Monitoring Parameters and Frequency

Sources of Emission	Parameter	Frequency
Steam boilers L2, L4 & L5	Particulate	Once / year
	Particulate (Opacity)	Continuous
	SO ₂	Continuous
	NO _x expressed as NO ₂ (For L4 and L5 only)	Continuous
Fugitive Dust (Coal, PFA, Limestone, gypsum)	Respirable Suspended Particulate	Continuous
Chimney emissions	Ambient air	Continuous at existing ambient air monitoring stations
	SO 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. A summary of monitoring data is shown in [Appendix B](#).

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

3. WATER QUALITY

3.1 Monitoring Requirements

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

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

Table 3.1 Water Quality Monitoring Parameters and Frequencies

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

3.2 Summary of Results and Observations

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

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

4. ENVIRONMENTAL AUDIT

4.1 Review of Environmental Monitoring Procedures

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

4.2 Assessment of Environmental Monitoring Results

Monitoring results for Air Quality and Water Quality

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

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

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
Air					
1	Annual analysis of dust particulate emission rates at chimney stacks.	01/10/20-31/12/20	N.A.	0	No PM stack sampling tests were conducted in the reporting period.
2	Continuous monitoring of opacity, NOx, SO2 and CO2 in the flue gas at the chimney stacks	01/10/20-31/12/20	0	0	
3	Ambient SO2 & NOx monitoring at the Peak, Queen Mary Hospital, Victoria Road, Chung Hom Kok, Ap Lei Chau and Cheung Chau.	01/10/20-31/12/20	0	0	
Water					
1	pH in WWTP Effluent	01/10/20-31/12/20	0	0	
2	Suspended Solids in WWTP Effluent	01/10/20-31/12/20	0	0	

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
3	Iron in WWTP Effluent	01/10/20-31/12/20	0	0	
4	Barium in WWTP Effluent	01/10/20-31/12/20	0	0	
5	Mercury in WWTP Effluent	01/10/20-31/12/20	0	0	
6	Cadmium in WWTP Effluent	01/10/20-31/12/20	0	0	
7	Cyanide in WWTP Effluent	01/10/20-31/12/20	0	0	
8	Total Phosphorus in WWTP Effluent	01/10/20-31/12/20	0	0	
9	Total Nitrogen in WWTP Effluent	01/10/20-31/12/20	0	0	

Waste Management Records

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

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

Period	Amount of Gypsum Collected	Amount of Sludge Collected
October 2020	4,511.14 MT	49.76 MT
November 2020	3,011.11 MT	49.77 MT
December 2020	1,502.42 MT	68.65 MT

4.3 Status of Environmental Licensing and Permitting

All permits/licenses obtained as of December 2020 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(12)	01/01/2019	31/12/2020	Valid
WPCO discharge licence for Ash Lagoon	WT00027218-2017	24/02/2017	31/12/2021	Valid

4.4 Implementation Status of Environmental Mitigation Measures

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

4.5 Implementation Status of Event/Action Plan

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

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

4.6 Implementation Status of Environmental Complaint Handling Procedures

During the reporting period, there was one environmental feedback case regarding the operation of Lamma Power Station (LPS) as summarized in Table 4.4. The reported issue was satisfactorily addressed.

Table 4.4 Environmental Complaint(s) / Feedback Cases(s) Received

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

<p><i>Reference:</i> LFB20201101</p> <p><i>Received:</i> On 19/11/2020 (pm) from a Southern District resident</p> <p><i>Concerned:</i> On 19/11/2020 (0000 to 0100 hrs)</p>	<p>The enquirer reported that smoke came out from LPS. After an investigation, no abnormal operation/activity that could have caused any excessive smoke emission during the concerned period was found. The relevant emission data was also checked normal. The enquirer was advised of the findings and had no further question.</p>	<p>Nothing abnormal was identified. A reply was made to the enquirer and the case was closed.</p>

Table 4.5 Outstanding Environmental Complaint(s) / Feedback Case(s) Carried Over

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

5. FUTURE KEY ISSUES

5.1 Outage Plan for the coming 3 months

No major outage planned in the coming 3 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 October to December 2020. 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.

During the reporting period, there was one environmental feedback case regarding the operation of Lamma Power Station (LPS) as detailed in Section 4.6. The reported issue was satisfactorily addressed.

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	
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. For all other parameters except pH, Generation Division to be informed, frequency of monitoring to be increased, and investigations to be initiated to identify cause and remedy if concentration exceeds action level. If problem persists to exceed the limit level, ET Leader verbally informs EPD and ensures remedial actions implemented.
	Suspended Solids	Daily	30 mg/L	25	30	
	Iron	Monthly	4 mg/L	3.6	4	
	Barium	Monthly	1.5 mg/L	1.3	1.5	
	Mercury	Monthly	0.005 mg/L	0.0045	0.005	
	Cadmium	Monthly	0.005 mg/L	0.0045	0.005	
	Cyanide	Monthly	0.1 mg/L	0.09	0.1	
	Total Phosphorus	Monthly	8 mg/L	7.2	8	
	Total Nitrogen	Monthly	400 mg/L	360	400	

Appendix B

Air Quality Monitoring Results

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

Date: Fourth Quarter of 2020 (October – December)

Date	RSP concentration ($\mu\text{g}/\text{m}^3$)	
	Reservoir	East Gate
01/10/2020	13	28
02/10/2020	16	26
03/10/2020	18	22
04/10/2020	22	19
05/10/2020	18	20
06/10/2020	12	9
07/10/2020	13	20
08/10/2020	17	33
09/10/2020	19	41
10/10/2020	20	42
11/10/2020	18	40
12/10/2020	16	32
13/10/2020	13	19
14/10/2020	14	33
15/10/2020	14	34
16/10/2020	17	37
17/10/2020	20	34
18/10/2020	17	32
19/10/2020	20	39
20/10/2020	20	38
21/10/2020	23	51
22/10/2020	21	44
23/10/2020	17	41
24/10/2020	25	69
25/10/2020	21	58
26/10/2020	17	39
27/10/2020	14	30
28/10/2020	14	31
29/10/2020	16	42
30/10/2020	20	45
31/10/2020	17	45

Date	RSP concentration ($\mu\text{g}/\text{m}^3$)	
	Reservoir	East Gate
01/11/2020	16	42
02/11/2020	22	51
03/11/2020	20	49
04/11/2020	24	54
05/11/2020	14	35
06/11/2020	27	59
07/11/2020	29	58
08/11/2020	27	57
09/11/2020	26	66
10/11/2020	27	72
11/11/2020	19	51
12/11/2020	16	42
13/11/2020	16	39
14/11/2020	17	38
15/11/2020	15	31
16/11/2020	15	31
17/11/2020	10	23
18/11/2020	14	22
19/11/2020	9	15
20/11/2020	13	19
21/11/2020	14	22
22/11/2020	11	22
23/11/2020	14	26
24/11/2020	19	40
25/11/2020	17	33
26/11/2020	20	35
27/11/2020	23	55
28/11/2020	20	##
29/11/2020	18	##
30/11/2020	18	38

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

Date	RSP concentration ($\mu\text{g}/\text{m}^3$)	
	Reservoir	East Gate
01/12/2020	17	33
02/12/2020	18	43
03/12/2020	22	55
04/12/2020	20	50
05/12/2020	23	52
06/12/2020	25	52
07/12/2020	34	71
08/12/2020	29	69
09/12/2020	24	47
10/12/2020	24	44
11/12/2020	14	24
12/12/2020	25	45
13/12/2020	15	24
14/12/2020	18	33
15/12/2020	11	21
16/12/2020	13	##
17/12/2020	20	58
18/12/2020	27	55
19/12/2020	32	69
20/12/2020	27	48
21/12/2020	32	58
22/12/2020	27	45
23/12/2020	18	30
24/12/2020	26	39
25/12/2020	24	39
26/12/2020	21	39
27/12/2020	22	37
28/12/2020	20	42
29/12/2020	25	41
30/12/2020	26	60
31/12/2020	18	38

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

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 (%)
1/10/2020	26	356	12
2/10/2020	31	316	11
3/10/2020	23	443	12
4/10/2020	24	379	13
5/10/2020	24	383	12
6/10/2020	25	403	13
7/10/2020	24	351	12
8/10/2020	18	302	12
9/10/2020	*	*	*
10/10/2020	*	*	*
11/10/2020	*	*	*
12/10/2020	17	306	12
13/10/2020	37	349	10
14/10/2020	34	390	12
15/10/2020	39	364	12
16/10/2020	32	346	12
17/10/2020	40	433	11
18/10/2020	22	437	11
19/10/2020	20	364	11
20/10/2020	17	315	11
21/10/2020	15	239	11
22/10/2020	21	297	11
23/10/2020	13	288	12
24/10/2020	14	247	12
25/10/2020	20	328	11
26/10/2020	26	375	11
27/10/2020	16	326	11
28/10/2020	25	361	11
29/10/2020	30	376	12
30/10/2020	36	365	13
31/10/2020	24	371	11

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/11/2020	17	345	11
2/11/2020	15	308	12
3/11/2020	13	312	12
4/11/2020	17	348	12
5/11/2020	15	326	11
6/11/2020	11	292	11
7/11/2020	13	218	12
8/11/2020	23	411	12
9/11/2020	23	395	12
10/11/2020	20	282	11
11/11/2020	18	266	11
12/11/2020	23	276	12
13/11/2020	16	337	12
14/11/2020	32	412	11
15/11/2020	27	396	10
16/11/2020	18	255	11
17/11/2020	16	258	12
18/11/2020	12	341	12
19/11/2020	20	418	12
20/11/2020	20	373	12
21/11/2020	21	351	12
22/11/2020	19	295	12
23/11/2020	25	314	12
24/11/2020	15	273	12
25/11/2020	21	375	13
26/11/2020	11	277	12
27/11/2020	51	403	12
28/11/2020	50	439	11
29/11/2020	*	*	*
30/11/2020	*	*	*

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/12/2020	*	*	*
2/12/2020	*	*	*
3/12/2020	*	*	*
4/12/2020	*	*	*
5/12/2020	*	*	*
6/12/2020	*	*	*
7/12/2020	*	*	*
8/12/2020	*	*	*
9/12/2020	*	*	*
10/12/2020	*	*	*
11/12/2020	*	*	*
12/12/2020	*	*	*
13/12/2020	*	*	*
14/12/2020	*	*	*
15/12/2020	*	*	*
16/12/2020	*	*	*
17/12/2020	*	*	*
18/12/2020	*	*	*
19/12/2020	*	*	*
20/12/2020	*	*	*
21/12/2020	*	*	*
22/12/2020	*	*	*
23/12/2020	*	*	*
24/12/2020	*	*	*
25/12/2020	*	*	*
26/12/2020	*	*	*
27/12/2020	*	*	*
28/12/2020	*	*	*
29/12/2020	*	*	*
30/12/2020	*	*	*
31/12/2020	*	*	*

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 (%)
1/10/2020	*	*	*
2/10/2020	*	*	*
3/10/2020	*	*	*
4/10/2020	*	*	*
5/10/2020	59	194	11
6/10/2020	26	324	11
7/10/2020	17	226	10
8/10/2020	*	*	*
9/10/2020	17	240	8
10/10/2020	*	*	*
11/10/2020	*	*	*
12/10/2020	*	*	*
13/10/2020	*	*	*
14/10/2020	28	328	12
15/10/2020	34	311	7
16/10/2020	17	317	8
17/10/2020	27	389	8
18/10/2020	17	348	8
19/10/2020	14	366	8
20/10/2020	23	359	11
21/10/2020	20	357	11
22/10/2020	16	392	8
23/10/2020	*	*	*
24/10/2020	*	*	*
25/10/2020	*	*	*
26/10/2020	*	*	*
27/10/2020	*	*	*
28/10/2020	*	*	*
29/10/2020	14	221	11
30/10/2020	14	370	11
31/10/2020	13	395	8

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/11/2020	13	321	8
2/11/2020	15	294	10
3/11/2020	11	269	7
4/11/2020	12	284	7
5/11/2020	12	183	7
6/11/2020	15	245	7
7/11/2020	*	*	*
8/11/2020	*	*	*
9/11/2020	11	254	9
10/11/2020	13	276	8
11/11/2020	12	280	7
12/11/2020	15	300	7
13/11/2020	14	307	7
14/11/2020	*	*	*
15/11/2020	*	*	*
16/11/2020	*	*	*
17/11/2020	*	*	*
18/11/2020	*	*	*
19/11/2020	*	*	*
20/11/2020	16	343	9
21/11/2020	11	343	8
22/11/2020	14	294	12
23/11/2020	13	313	8
24/11/2020	14	302	7
25/11/2020	9	290	7
26/11/2020	17	194	7
27/11/2020	12	263	8
28/11/2020	*	*	*
29/11/2020	*	*	*
30/11/2020	19	313	8

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/12/2020	57	307	8
2/12/2020	41	313	9
3/12/2020	73	349	8
4/12/2020	60	337	8
5/12/2020	43	449	17
6/12/2020	50	400	15
7/12/2020	51	353	8
8/12/2020	54	327	8
9/12/2020	47	341	8
10/12/2020	28	348	7
11/12/2020	36	303	8
12/12/2020	38	375	8
13/12/2020	67	402	7
14/12/2020	37	344	11
15/12/2020	29	336	8
16/12/2020	39	348	8
17/12/2020	37	413	8
18/12/2020	26	354	8
19/12/2020	21	400	9
20/12/2020	30	459	8
21/12/2020	18	425	9
22/12/2020	16	359	9
23/12/2020	31	334	8
24/12/2020	39	326	9
25/12/2020	51	358	9
26/12/2020	48	411	9
27/12/2020	122	413	8
28/12/2020	90	413	11
29/12/2020	53	393	9
30/12/2020	50	405	10
31/12/2020	61	441	12

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	
	SO2 concentration (mg/Nm3) [#]	Opacity (%)
1/10/2020	*	*
2/10/2020	*	*
3/10/2020	*	*
4/10/2020	*	*
5/10/2020	*	*
6/10/2020	*	*
7/10/2020	*	*
8/10/2020	*	*
9/10/2020	*	*
10/10/2020	*	*
11/10/2020	*	*
12/10/2020	*	*
13/10/2020	*	*
14/10/2020	*	*
15/10/2020	*	*
16/10/2020	*	*
17/10/2020	*	*
18/10/2020	*	*
19/10/2020	*	*
20/10/2020	*	*
21/10/2020	*	*
22/10/2020	*	*
23/10/2020	*	*
24/10/2020	*	*
25/10/2020	*	*
26/10/2020	*	*
27/10/2020	*	*
28/10/2020	88	16
29/10/2020	*	*
30/10/2020	*	*
31/10/2020	*	*

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) [#]	Opacity (%)
1/11/2020	80	17
2/11/2020	70	14
3/11/2020	71	14
4/11/2020	76	16
5/11/2020	*	*
6/11/2020	*	*
7/11/2020	*	*
8/11/2020	*	*
9/11/2020	*	*
10/11/2020	*	*
11/11/2020	*	*
12/11/2020	*	*
13/11/2020	*	*
14/11/2020	*	*
15/11/2020	*	*
16/11/2020	60	15
17/11/2020	72	41
18/11/2020	61	14
19/11/2020	47	15
20/11/2020	*	*
21/11/2020	55	14
22/11/2020	*	*
23/11/2020	57	14
24/11/2020	*	*
25/11/2020	*	*
26/11/2020	*	*
27/11/2020	*	*
28/11/2020	*	*
29/11/2020	*	*
30/11/2020	*	*

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) [#]	Opacity (%)
1/12/2020	73	13
2/12/2020	72	13
3/12/2020	113	14
4/12/2020	101	14
5/12/2020	*	*
6/12/2020	*	*
7/12/2020	*	*
8/12/2020	*	*
9/12/2020	*	*
10/12/2020	*	*
11/12/2020	*	*
12/12/2020	*	*
13/12/2020	*	*
14/12/2020	*	*
15/12/2020	*	*
16/12/2020	*	*
17/12/2020	*	*
18/12/2020	*	*
19/12/2020	*	*
20/12/2020	*	*
21/12/2020	87	14
22/12/2020	*	*
23/12/2020	*	*
24/12/2020	*	*
25/12/2020	*	*
26/12/2020	*	*
27/12/2020	*	*
28/12/2020	54	15
29/12/2020	*	*
30/12/2020	*	*
31/12/2020	*	*

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

No annual stack particulate samplings were conducted in the period October 2020 to December 2020.

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: OCTOBER

STATION : VICTORIA PEAK
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----									RANGE-----				STN GEOM	PERCENT	NO. OF TIMES
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
2	2	2	2	3	4	5	5	1	-	6	1	-	5	2	100	0

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

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

STATION : VICTORIA PEAK
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	1	1	1	1	2	3	5	4	5	4	3	2	4	4	4	3	2	1	1	1	0	2	3	2
2	3	1	0	0	1	1	1	3	4	4	7	4	2	2	1	7	3	3	1	2	1	0	0	2	2
3	0	1	2	1	0	1	1	4	3	3	4	6	4	11	14	14	10	5	6	2	5	5	0	6	5
4	2	4	1	0	0	1	1	6	6	8	9	21	23	15	12	20	31	24	49	32	13	19	16	10	13
5	16	21	25	21	6	5	10	19	16	16	11	7	7	5	9	8	5	4	3	0	0	1	2	3	9
6	3	1	1	2	5	9	12	18	22	22	23	22	26	26	28	30	36	35	41	34	28	23	27	30	21
7	15	11	9	8	13	10	19	24	34	39	30	28	18	19	26	22	26	25	34	29	23	22	18	23	22
8	24	16	18	9	7	14	16	24	31	31	24	20	14	14	15	15	27	25	33	33	30	27	27	24	22
9	19	11	9	8	9	12	16	29	33	29	29	21	19	17	21	24	29	27	33	36	35	25	14	18	22
10	13	9	8	6	5	6	9	23	29	24	24	21	18	18	22	23	25	33	23	18	10	9	7	8	16
11	8	4	2	2	2	3	6	16	16	14	23	9	13	18	14	17	18	12	12	12	10	8	6	9	11
12	4	2	2	2	0	1	6	14	24	20	25	25	13	15	22	25	32	24	24	22	21	10	5	7	14
13	4	3	3	1	1	1	1	1	1	2	1	0	0	0	0	0	1	1	0	0	1	0	0	2	1
14	0	M	0	0	0	0	0	2	4	5	7	6	4	4	5	7	7	5	7	4	1	1	2	4	3
15	0	0	0	0	0	0	2	5	10	10	7	7	9	13	17	18	12	16	8	5	7	6	7	9	7
16	4	3	3	4	4	4	9	18	21	19	17	17	17	17	20	22	21	23	13	12	9	5	6	9	12
17	15	13	8	9	6	7	9	13	15	16	18	15	16	16	18	23	13	10	8	7	6	16	18	18	13
18	17	11	10	8	6	7	13	19	15	11	9	9	12	9	13	15	20	16	11	10	10	10	25	15	13
19	12	13	10	10	10	9	10	21	29	30	24	18	14	19	22	23	25	31	36	32	30	24	23	16	20
20	12	9	7	8	13	14	20	32	28	20	18	14	13	16	23	24	23	28	35	40	28	24	24	21	21
21	13	9	7	8	8	9	9	13	16	19	20	15	16	19	17	16	18	21	20	20	18	20	21	15	15
22	10	8	6	7	6	6	9	13	14	17	23	23	20	16	18	17	20	24	26	19	13	12	13	15	15
23	12	9	8	6	6	9	13	22	27	32	35	30	28	31	35	M	M	39	37	26	25	19	15	15	22
24	14	9	6	5	6	8	12	22	22	22	25	21	23	22	23	21	18	25	17	13	9	8	8	6	15
25	6	3	2	3	2	1	3	6	5	6	4	4	3	4	5	14	27	16	11	5	3	3	2	1	6
26	0	0	0	0	0	0	0	1	3	8	7	11	17	12	12	15	21	8	11	11	6	5	2	4	6
27	1	0	0	0	0	0	2	7	16	10	8	9	13	17	11	16	16	11	15	7	3	4	0	2	7
28	0	M	0	0	0	0	1	5	9	13	12	18	16	20	10	6	17	16	13	7	4	2	5	3	8
29	0	1	0	0	0	0	1	3	5	14	16	15	14	25	23	22	33	45	36	21	21	18	21	20	15
30	16	6	5	5	4	3	8	16	20	32	25	18	20	16	17	8	6	3	4	6	2	3	5	6	11
31	4	1	1	2	2	1	3	5	5	7	7	3	3	7	9	13	7	6	11	8	3	5	10	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
9	10	12	10	25	30	35	36	0	-	49	1	-	22	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:OCTOBER

YEAR :2020

UNIT :MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
4	4	4	4	5	6	6	7	2	-	8	3	-	6	1	100	0

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH:OCTOBER

YEAR :2020

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
7	7	8	7	14	16	18	20	0	-	29	2	-	15	2	90	0

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

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

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2020
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	0	0	0	1	1	1	1	1	1	1	1	0	0	0	1	1	0	0	1	0	0	1	1	
2	1	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	1	0	0	1	1	0	
3	0	1	0	0	0	1	0	0	0	1	1	0	0	1	0	1	0	0	1	0	0	2	1	1	0	
4	1	0	1	1	0	1	0	0	2	0	1	3	1	2	1	2	2	1	1	2	0	1	1	1	1	
5	1	1	1	2	1	0	1	1	0	1	0	1	0	0	0	0	1	0	0	1	0	0	1	0	1	
6	1	0	1	0	0	1	0	1	1	0	0	1	0	0	0	1	1	0	1	1	1	0	1	2	1	
7	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0	0	0	0	1	1	0	0	0	1	1	
8	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	1	0	
9	0	1	0	0	0	0	0	1	1	1	1	1	0	0	0	1	1	1	0	0	2	1	1	1	1	
10	0	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	2	0	1	1	0	0	2	1	
11	0	0	0	1	0	1	1	1	1	1	0	1	2	1	1	2	1	1	1	0	1	0	1	0	1	
12	1	1	0	1	0	1	1	1	1	0	1	1	0	1	2	0	1	1	0	1	1	1	1	1	1	
13	1	1	0	0	1	0	0	1	0	0	1	0	0	0	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	1	0	0	0	0	0	1	0	0	0	0	0	0	
15	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	0	0	1	2	1	
16	0	1	1	1	1	0	1	1	1	1	1	0	0	1	1	0	1	1	0	0	0	0	0	2	1	
17	1	1	1	1	1	0	1	0	0	1	1	1	0	1	0	0	1	1	0	1	1	0	0	1	1	
18	1	1	1	0	0	0	0	1	1	1	1	1	1	0	0	1	2	1	0	0	1	0	0	0	1	
19	0	0	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	0	0	1	0	0	0	1	1	
20	0	1	1	1	1	1	1	1	1	1	1	0	0	0	1	2	1	0	1	1	1	0	1	2	1	
21	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	1	1	2	1	
22	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	2	1	
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	2	1	
24	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	
25	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0	0	1	1	
26	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	0	2	1	1	0	0	0	1	1	
27	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	1	1	
28	1	1	0	0	1	1	0	1	1	1	1	M	1	1	1	0	0	0	0	0	0	0	0	1	1	
29	0	0	0	0	0	0	0	0	1	1	1	1	0	1	1	1	1	1	1	0	0	0	0	1	0	
30	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	1	0	
31	0	0	0	1	1	0	1	1	1	0	0	0	0	0	0	1	1	1	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		
1	1	1	1	1	1	2	2	0	-	3	0	-	1	1	100	0

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

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

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
6	6	7	6	13	16	20	23	0	-	30	1	-	11	2	100	0

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

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

STATION : POK FU LAM
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2020
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	2	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	1	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
5	0	0	0	0	0	0	0	0	0	0	0	2	1	0	2	0	0	0	0	0	0	0	0	8	1
6	3	1	3	2	0	0	0	0	0	0	2	0	0	1	2	0	0	1	2	7	4	5	8	13	2
7	7	4	8	5	1	2	4	5	7	8	3	6	5	3	5	5	7	1	2	5	9	7	5	11	5
8	2	0	3	9	6	10	10	13	10	4	3	3	2	2	2	2	2	3	3	3	3	2	2	7	4
9	3	1	1	1	5	8	6	7	7	7	7	7	6	6	7	7	8	8	8	8	8	8	8	20	7
10	14	14	13	8	12	8	7	9	9	9	8	9	8	8	10	9	10	9	8	7	8	7	7	15	9
11	9	8	2	3	7	9	12	13	14	14	15	15	15	14	14	14	13	13	13	13	13	12	12	20	12
12	14	10	2	1	4	11	12	13	15	15	14	14	14	14	14	13	13	13	13	13	13	14	13	15	12
13	6	6	4	5	4	5	2	3	7	7	6	4	9	9	4	8	2	8	8	6	8	1	5	19	6
14	13	5	4	6	4	1	7	12	13	13	13	13	13	13	13	13	13	13	13	12	12	13	13	20	11
15	15	13	13	13	13	12	13	13	13	13	13	13	13	14	14	14	14	14	14	13	13	13	13	20	14
16	15	14	14	14	14	14	13	14	15	14	13	13	13	13	14	14	14	13	13	13	13	12	13	20	14
17	15	15	14	14	14	14	13	14	13	13	13	13	13	13	13	14	13	13	13	13	12	13	13	20	14
18	15	14	14	15	14	14	14	14	15	14	13	13	6	5	5	6	5	5	5	4	6	12	12	19	11
19	15	14	14	14	14	14	13	13	14	15	14	14	13	13	13	13	13	13	13	13	13	13	13	12	13
20	7	7	7	6	6	6	6	6	7	6	5	4	5	6	6	6	7	8	7	6	6	7	6	13	7
21	8	7	6	7	6	7	7	7	8	8	7	6	6	6	6	7	7	6	7	8	7	7	7	13	7
22	9	8	14	11	8	3	8	7	3	3	4	4	4	3	4	3	3	3	3	3	3	3	4	15	6
23	11	9	8	3	3	6	11	5	3	3	3	3	3	3	3	2	3	3	3	3	2	3	3	14	5
24	11	10	10	10	10	10	10	11	11	10	11	10	10	10	10	10	10	10	9	8	9	9	9	13	10
25	8	7	7	7	7	7	7	7	7	8	7	6	6	6	6	6	6	6	6	5	5	5	5	11	7
26	7	6	5	6	5	5	5	6	7	6	6	7	7	9	8	10	8	7	6	6	6	5	5	11	7
27	7	6	6	5	5	6	6	6	7	7	6	6	6	6	7	7	7	6	5	5	5	5	5	11	6
28	7	6	6	6	6	6	5	6	6	6	6	6	6	7	6	5	5	5	5	4	4	4	4	10	6
29	6	5	5	5	5	5	6	6	6	6	7	6	6	6	6	6	5	5	5	5	5	4	4	11	6
30	7	6	5	5	5	5	5	4	5	5	5	5	4	5	5	5	5	5	5	5	4	4	4	11	5
31	7	6	6	6	5	5	5	6	6	6	6	5	6	6	6	6	6	6	6	5	5	5	5	11	6

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL		
7	6	7	6	14	14	15	17	0	-	20	0	-	14	2	100	0

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

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

STATION : POK FU LAM
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	10	9	8	8	8	9	8	10	11	12	12	14	12	13	14	16	17	17	17	16	19	18	20	19	13
2	12	10	11	15	14	14	17	23	24	24	23	24	23	22	17	24	22	19	21	26	21	19	21	25	20
3	19	20	19	17	15	18	20	23	21	24	23	29	30	35	49	40	45	28	24	21	24	23	23	28	26
4	23	M	24	20	18	18	19	22	22	25	43	52	52	40	28	31	32	30	32	30	24	25	27	31	29
5	30	27	23	29	39	48	48	46	31	38	32	11	10	9	8	8	8	9	10	6	5	5	7	11	21
6	7	6	5	5	7	11	15	17	35	29	37	26	20	22	27	39	36	44	41	37	33	29	28	29	24
7	24	19	16	17	17	17	23	37	43	42	38	36	37	32	28	32	33	38	41	43	33	24	22	30	30
8	31	23	18	17	14	11	24	36	46	47	35	27	23	23	24	24	30	35	39	47	36	29	27	24	29
9	24	18	14	13	15	16	23	37	38	29	29	24	23	19	23	31	36	37	41	45	43	28	19	16	27
10	19	14	10	8	8	8	11	24	31	30	28	36	31	23	23	22	50	37	36	30	19	13	13	17	23
11	13	12	6	6	6	5	9	14	12	16	16	11	18	14	13	14	18	21	17	14	12	7	8	7	12
12	7	5	5	4	4	4	8	16	24	16	14	15	16	13	13	17	15	27	25	19	20	11	10	10	13
13	8	5	6	5	4	4	5	4	5	6	5	4	4	4	4	4	4	4	4	5	4	4	4	4	5
14	3	3	2	2	3	3	5	8	10	12	12	12	12	11	13	15	15	14	18	12	9	7	8	7	9
15	5	4	3	4	3	3	6	11	14	13	14	12	12	11	16	18	18	22	15	12	15	12	12	10	11
16	9	7	7	7	8	7	8	14	18	14	13	12	13	18	18	21	28	29	26	15	10	10	10	11	14
17	17	16	13	12	13	14	19	27	20	18	15	10	11	17	17	20	16	17	15	13	12	18	21	15	16
18	15	M	14	11	10	13	28	30	31	18	11	9	11	12	16	14	15	16	16	14	13	20	20	17	16
19	15	31	30	26	20	19	20	38	44	38	38	34	20	29	28	36	39	47	53	42	26	25	33	23	31
20	16	17	24	25	29	23	29	36	41	33	20	15	20	35	32	29	29	58	33	35	34	33	33	32	30
21	22	22	16	23	17	31	26	27	39	37	35	30	27	31	34	30	33	43	50	54	50	35	34	27	32
22	18	13	18	15	17	14	27	33	36	38	37	42	43	33	34	26	30	40	42	26	13	14	13	14	27
23	14	14	13	12	13	15	20	29	33	34	34	38	37	31	35	41	45	49	45	37	26	21	22	31	29
24	26	19	19	19	18	16	21	34	41	38	20	24	26	25	28	24	19	21	20	17	14	15	14	13	22
25	13	11	9	11	10	10	11	15	13	13	11	10	9	10	13	15	17	13	14	16	14	12	11	10	12
26	9	8	7	6	7	6	7	10	14	11	13	17	18	28	24	46	36	30	19	26	19	18	13	12	17
27	8	7	6	4	5	5	7	10	15	21	13	17	17	20	24	25	25	26	26	19	13	11	10	7	14
28	7	6	6	5	5	6	6	10	12	10	10	13	15	16	22	20	19	15	18	11	10	11	9	8	11
29	6	7	6	5	5	5	8	12	14	14	13	12	17	39	52	46	54	44	49	40	24	22	18	22	22
30	23	17	13	12	13	11	14	26	55	59	34	21	22	27	18	24	17	12	15	21	15	11	12	13	21
31	12	10	9	8	9	10	12	18	17	16	15	13	12	17	20	22	21	18	23	21	13	16	21	13	15

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
17	17	20	17	37	42	48	52	2	-	59	5	-	32	2	100	0

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

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

STATION : AP LEI CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

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

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

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

STATION : AP LEI CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	1	2	2	1	0	1	0	1	3	2	1	8	4	3	10	2
4	1	0	0	0	0	0	0	0	0	0	0	3	1	1	3	14	11	9	23	9	8	14	3	14	5
5	2	0	53	2	1	1	6	29	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
6	0	0	0	0	0	1	9	13	14	12	12	9	8	9	7	22	29	24	28	32	25	17	13	8	12
7	7	3	2	3	2	5	11	22	25	29	28	20	8	7	11	16	20	26	28	31	19	11	11	20	15
8	17	12	11	7	3	5	15	27	27	23	20	9	6	12	13	12	9	15	20	27	22	13	11	12	15
9	10	5	4	1	3	6	13	22	15	20	19	13	14	11	15	15	30	29	32	35	27	20	15	18	16
10	15	11	7	6	6	8	13	18	17	14	16	18	12	15	8	7	6	7	15	13	10	8	5	5	11
11	1	0	0	0	1	2	5	9	10	9	9	7	8	7	6	7	4	5	7	5	3	1	0	2	5
12	1	1	0	0	0	0	6	7	15	8	4	5	3	2	5	9	8	12	15	10	7	4	3	4	5
13	2	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
14	0	M	0	0	0	0	0	2	2	3	3	3	1	2	3	3	2	2	3	1	0	0	0	2	1
15	0	0	0	0	0	0	2	2	6	6	8	9	5	7	7	6	6	7	3	1	4	2	3	5	4
16	3	1	2	2	2	3	9	13	11	9	8	12	17	14	12	14	8	12	9	5	5	3	1	5	8
17	10	12	6	5	4	6	10	14	15	15	9	7	7	11	10	3	3	2	2	1	3	16	18	18	8
18	13	9	8	8	7	9	12	15	10	7	7	7	6	6	5	6	8	6	4	3	2	3	16	17	8
19	14	10	10	9	7	7	12	21	28	28	16	11	13	16	27	27	26	29	28	36	26	19	15	16	19
20	11	10	8	8	10	14	26	31	34	13	10	5	11	36	22	35	34	11	8	13	9	16	19	16	17
21	11	10	6	5	7	8	13	22	25	27	M	16	20	18	17	21	24	22	25	22	20	20	23	16	17
22	12	7	3	5	4	6	10	21	22	25	26	32	31	26	20	19	22	28	27	17	8	9	8	10	17
23	8	6	6	4	4	7	16	23	24	25	34	32	29	28	25	32	36	35	29	16	11	8	10	19	19
24	21	11	10	7	9	8	11	14	19	21	18	14	12	14	12	12	12	11	12	9	6	5	4	6	12
25	5	2	2	2	2	2	2	5	5	4	4	2	2	0	1	6	6	4	5	2	0	0	0	8	3
26	5	6	5	5	5	5	6	9	9	9	11	13	12	10	12	9	10	13	18	11	9	9	8	3	9
27	2	0	0	0	0	0	6	10	7	6	4	5	5	6	2	6	10	4	6	2	1	3	0	1	4
28	0	M	0	0	0	0	4	5	6	4	4	8	9	11	6	2	8	7	5	5	3	1	1	1	4
29	0	0	0	0	0	0	3	5	6	7	8	8	11	20	22	25	38	33	24	17	13	9	7	9	11
30	8	6	4	4	3	2	8	17	26	32	14	9	10	10	5	3	3	1	2	6	2	2	1	3	8
31	2	0	1	2	2	3	4	4	5	9	4	5	4	4	5	5	4	3	7	2	2	4	7	9	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
7	6	8	6	22	27	32	35	0	-	53	0	-	19	3	100	0

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

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

STATION : CHEUNG CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2020
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	2	2	1	2	2	2	2	2	2	3	4	3	3	3	3	2	1	1	1	1	1	3	2	
2	2	1	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	1	1	1	1	3	2	
3	2	1	1	1	2	1	1	2	1	1	2	1	1	2	3	3	4	2	2	2	1	2	2	3	2	
4	2	2	2	2	2	2	3	2	2	3	3	2	3	3	4	3	3	3	2	2	2	2	2	4	3	
5	2	2	2	2	2	1	2	2	1	1	2	2	4	2	3	3	2	2	2	1	1	1	0	1	2	
6	1	1	1	1	1	1	2	2	2	2	3	2	2	2	2	1	2	2	3	2	1	1	0	2	2	
7	1	1	1	1	1	0	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	2	1	
8	1	1	1	1	2	1	1	1	1	1	1	2	2	2	3	2	2	2	1	1	1	1	0	2	1	
9	0	1	1	1	1	1	1	2	1	1	2	3	3	4	3	3	3	3	2	2	2	2	3	3	2	
10	2	2	3	3	4	4	3	3	4	4	4	3	3	4	4	5	4	4	3	2	2	2	2	3	3	
11	2	3	2	2	2	2	2	3	4	5	4	4	6	6	6	5	5	4	3	3	3	3	2	4	4	
12	3	2	3	2	2	3	2	3	4	4	3	4	5	5	5	5	5	4	4	5	3	3	3	6	4	
13	3	2	2	2	3	2	2	3	3	2	2	2	2	2	2	2	2	2	2	2	1	4	3	3	2	
14	2	3	3	3	3	2	5	6	6	4	4	5	5	6	6	5	5	3	5	4	2	3	2	4	4	
15	3	3	2	2	1	1	1	1	1	2	2	2	3	4	4	4	4	3	2	2	2	3	2	3	2	
16	2	2	2	3	3	3	4	4	3	3	3	3	4	6	6	4	3	3	2	3	2	1	1	3	3	
17	2	3	4	3	4	2	2	2	2	3	3	3	3	4	3	3	2	3	3	2	2	2	2	4	3	
18	3	3	3	3	2	2	2	2	2	3	3	3	4	4	3	4	3	3	2	2	1	1	0	2	3	
19	2	2	2	2	2	2	2	2	2	1	2	2	3	3	4	4	3	3	2	2	2	2	1	3	2	
20	2	2	2	2	2	2	2	1	2	3	3	3	3	4	4	4	3	2	3	2	2	3	2	4	3	
21	3	2	2	2	3	2	3	3	3	3	4	3	4	4	4	4	4	4	4	3	4	5	5	6	4	
22	5	6	6	5	5	5	5	5	5	5	5	5	5	5	6	6	5	5	5	5	6	6	6	8	5	
23	6	5	5	5	5	6	5	5	5	5	5	5	5	6	6	5	5	5	5	6	5	6	6	7	5	
24	7	7	6	6	6	6	6	6	6	5	6	6	6	7	7	6	5	5	4	3	3	3	3	5	5	
25	4	4	3	3	3	4	4	2	2	2	2	3	2	3	4	4	2	2	2	1	0	0	0	1	2	
26	0	0	0	0	0	0	0	0	0	1	1	2	2	3	4	5	4	3	1	0	0	0	0	1	1	
27	0	0	0	0	0	0	0	0	1	1	3	1	1	2	3	2	2	1	0	1	2	1	0	0	1	1
28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	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	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	M	M	1	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	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	2	2	2	5	6	6	6	0	-	8	0	-	5	2	100	0

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

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

STATION : CHEUNG CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	13	2	5	8	26	18	4	6	7	6	5	9	13	3	11	7	17	9	3	2	4	10	5	14	9
2	9	1	1	14	12	1	11	19	13	17	9	6	12	3	0	1	0	1	1	3	4	2	0	5	6
3	7	2	2	6	4	4	10	10	7	11	13	0	0	0	1	1	2	4	11	18	19	15	8	12	7
4	4	2	5	2	4	4	5	7	9	23	18	4	0	4	4	0	1	3	2	2	3	2	9	5	5
5	7	27	37	19	16	27	42	63	25	60	38	8	19	6	6	5	1	1	1	0	0	0	2	8	17
6	12	7	9	8	9	43	43	39	38	36	33	40	52	55	45	37	50	70	63	43	39	35	39	37	37
7	35	32	21	17	15	21	29	34	31	37	34	35	34	39	33	28	25	36	32	26	24	26	24	29	29
8	29	21	20	12	14	16	18	25	23	38	27	27	25	28	31	21	26	38	37	32	36	31	31	25	26
9	18	21	21	16	15	18	25	23	20	30	31	31	25	24	18	15	29	62	37	43	38	35	36	36	28
10	46	37	26	24	33	35	37	33	40	36	33	25	29	12	5	6	8	11	23	10	14	16	14	17	24
11	13	12	4	4	2	2	9	30	32	26	23	21	16	9	7	3	6	5	7	16	10	4	8	5	11
12	7	5	6	5	1	2	7	33	48	29	11	20	32	3	7	11	12	30	92	104	45	9	5	15	22
13	11	7	6	2	3	3	1	1	0	0	0	0	0	0	0	0	1	1	8	15	21	16	16	2	5
14	16	M	9	13	13	4	10	17	17	20	16	19	27	28	35	32	28	18	30	19	18	23	9	26	19
15	20	18	15	9	4	1	0	3	9	10	6	6	8	16	13	2	4	4	4	5	17	21	10	12	9
16	8	4	3	5	4	23	43	55	39	26	21	26	48	48	37	6	7	9	8	19	13	6	8	18	20
17	20	37	30	34	43	25	33	28	30	40	29	17	18	31	34	23	15	24	16	15	26	43	56	56	30
18	52	38	36	27	27	23	24	24	19	33	36	23	31	5	4	5	6	13	15	15	11	22	34	32	23
19	43	41	31	24	17	22	22	21	26	27	22	32	32	33	35	32	23	35	57	36	30	26	21	30	30
20	30	39	25	15	15	17	19	24	22	33	39	26	26	35	18	9	13	12	11	13	16	38	30	31	23
21	17	16	15	16	22	21	25	25	26	28	28	29	32	28	26	19	20	24	31	39	31	28	45	41	26
22	28	26	25	19	21	23	27	34	36	45	46	54	46	45	37	27	24	37	45	44	39	34	33	41	35
23	33	39	35	29	41	38	33	38	45	52	52	44	45	53	64	70	71	66	66	76	51	62	63	54	51
24	49	55	45	41	87	77	61	65	63	50	40	35	56	60	53	56	22	26	18	19	15	14	14	11	43
25	9	14	7	8	7	18	27	15	12	9	7	22	20	10	2	4	11	17	26	26	26	23	14	18	15
26	21	14	11	11	25	9	5	5	11	19	15	12	9	8	12	11	8	9	14	22	14	14	21	19	13
27	8	5	16	7	1	1	26	37	34	56	11	8	11	7	3	3	5	6	21	23	12	5	16	7	14
28	4	M	11	6	3	2	8	26	8	14	24	36	44	64	7	11	15	15	11	10	17	10	4	9	16
29	8	4	5	3	7	19	3	7	10	14	19	25	40	54	38	43	53	47	49	63	82	29	39	16	28
30	15	16	32	36	32	23	40	46	47	54	48	47	17	M	M	2	0	0	4	6	0	2	1	12	22
31	13	9	13	2	7	18	23	25	21	6	7	10	7	1	2	0	0	0	3	23	8	12	6	15	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		
15	18	21	18	43	53	63	70	0	-	104	5	-	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
MONTH: NOVEMBER

STATION : VICTORIA PEAK
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

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

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

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

STATION : VICTORIA PEAK
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2020
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	1	1	3	5	5	9	8	13	11	26	15	11	12	6	7	17	15	10	3	7	8
2	3	0	0	0	0	3	12	28	31	32	29	29	17	16	14	18	18	19	21	32	33	23	19	18	17
3	16	10	7	8	7	8	16	24	32	34	28	25	21	16	23	22	26	29	31	9	7	8	5	6	17
4	1	0	0	0	0	1	7	17	17	19	12	6	5	5	8	10	17	17	12	5	4	3	2	2	7
5	1	0	1	0	0	0	3	6	9	8	4	4	5	6	8	17	18	19	9	6	7	3	3	7	6
6	3	1	0	0	1	2	3	16	31	39	41	32	24	33	35	48	45	50	38	29	26	43	37	40	26
7	33	13	7	7	7	4	8	14	22	24	25	25	25	24	24	43	41	39	46	42	37	29	28	25	25
8	18	12	8	7	4	3	6	11	16	17	17	16	14	12	13	18	23	26	25	18	22	16	12	9	14
9	7	7	6	5	5	6	11	27	41	25	23	23	17	19	29	24	18	12	13	12	10	8	8	13	15
10	11	5	3	4	3	5	9	31	43	37	31	29	22	22	25	31	37	31	16	13	10	5	5	6	18
11	3	M	3	1	2	3	9	24	30	31	26	20	15	14	17	14	13	12	12	8	5	5	4	5	12
12	3	2	1	1	1	2	10	28	37	39	22	16	13	18	22	23	34	31	16	14	18	22	19	21	17
13	17	11	10	6	9	6	13	29	45	45	35	22	31	27	25	36	40	31	23	20	10	9	10	10	22
14	8	7	5	4	5	7	15	24	29	27	22	20	15	20	27	33	36	40	36	32	25	22	13	6	20
15	4	5	6	1	1	2	2	4	1	1	2	M	5	3	3	12	24	17	14	11	7	7	6	5	6
16	2	1	1	0	0	1	4	13	12	9	8	7	5	2	14	21	13	12	16	7	5	2	2	6	7
17	0	0	0	0	0	0	1	3	4	2	6	4	3	2	13	M	23	22	20	33	13	5	10	11	8
18	10	10	8	7	7	8	8	14	18	20	21	19	23	29	20	33	35	34	17	7	5	5	4	2	15
19	2	4	8	2	2	4	5	14	40	35	41	42	39	24	36	25	32	48	30	14	13	11	23	13	21
20	10	5	7	5	5	4	9	21	28	38	39	37	41	30	28	27	29	16	12	4	2	2	3	3	17
21	5	2	4	13	9	6	6	7	9	10	11	11	11	11	15	21	20	14	9	7	5	4	5	8	9
22	10	9	8	6	5	4	6	5	7	9	7	9	7	8	8	9	12	8	9	25	16	17	22	12	10
23	8	8	8	5	3	3	4	7	8	9	7	12	16	18	20	21	25	25	21	24	24	29	20	14	14
24	10	9	9	9	8	8	15	32	32	32	34	39	49	30	34	33	33	21	15	18	14	8	9	10	21
25	10	7	7	6	6	7	17	27	33	28	24	19	21	17	22	23	22	39	23	22	12	11	10	9	18
26	7	6	6	7	7	6	9	20	33	31	39	26	26	21	20	36	56	72	115	110	74	48	31	18	34
27	13	10	10	18	22	21	26	35	46	40	37	42	41	40	41	42	44	50	53	60	37	35	35	32	35
28	34	31	26	23	17	17	21	25	30	31	36	41	31	28	25	30	32	36	34	48	41	35	36	35	31
29	31	25	23	23	19	17	16	23	24	24	26	23	18	17	24	31	26	35	35	45	40	33	29	32	27
30	33	30	20	17	18	19	22	29	35	36	34	33	30	30	30	27	38	41	43	41	34	25	27	26	30

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
13	15	18	15	36	41	46	50	0	-	115	6	-	35	3	100	0

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH: NOVEMBER

YEAR : 2020

UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
6	6	6	6	9	10	12	12	4	-	17	4	-	11	1	100	0

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH: NOVEMBER

YEAR : 2020

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	3	2	2	2	3	3	6	5	2	4	5	6	4	5	5	6	9	12	4	8	6	7	2	1	5
2	1	1	0	0	0	2	4	8	14	9	10	9	4	4	6	29	36	33	18	23	16	7	7	6	10
3	7	8	5	4	5	5	6	13	15	18	10	8	5	7	10	16	12	11	9	7	5	7	7	5	9
4	5	3	3	1	3	2	7	13	10	10	5	5	5	8	8	10	11	9	6	7	3	3	2	1	6
5	1	2	2	1	1	4	5	4	3	1	2	1	1	0	1	1	10	13	9	4	6	1	4	2	3
6	1	0	0	1	1	2	4	4	10	55	60	55	41	29	34	47	58	82	76	73	80	81	71	19	37
7	12	8	7	6	5	6	6	5	10	19	31	28	34	38	48	76	79	80	52	33	14	12	12	14	26
8	9	7	6	5	5	5	6	7	9	9	10	11	11	10	7	13	20	17	20	22	14	12	9	10	11
9	8	10	9	10	9	6	7	10	13	14	13	11	8	8	10	13	12	13	9	8	5	6	7	5	9
10	5	5	4	6	3	8	13	16	17	20	19	15	16	14	18	19	22	14	10	9	5	5	5	5	11
11	3	M	4	3	4	8	8	11	9	6	8	7	7	6	7	7	6	3	2	2	4	8	3	3	6
12	4	5	3	3	4	4	9	22	18	11	7	7	3	4	5	5	7	9	7	6	6	9	5	11	7
13	12	9	8	8	6	2	3	8	10	9	7	10	16	14	15	16	12	7	8	8	7	5	12	7	9
14	9	11	9	7	8	13	19	20	19	16	13	8	6	7	12	10	14	13	27	24	19	19	13	7	13
15	7	8	5	3	3	3	4	3	3	4	3	2	1	1	2	3	6	7	6	5	3	3	4	4	4
16	3	2	3	2	2	3	5	11	8	4	3	1	0	2	2	7	8	8	7	8	4	2	3	4	4
17	3	3	1	0	1	0	1	3	4	4	3	3	3	1	0	1	6	7	7	2	2	3	4	4	3
18	4	3	4	5	5	5	3	2	1	1	0	0	2	3	3	1	3	6	3	5	11	13	16	4	4
19	4	0	0	0	0	0	1	6	6	11	10	1	0	0	1	6	8	6	7	12	11	8	6	2	4
20	3	5	1	5	2	3	4	9	13	13	9	5	1	0	1	2	6	8	11	5	8	14	17	8	6
21	8	4	7	12	3	2	1	3	3	3	4	5	3	4	4	6	4	8	6	4	2	4	5	7	5
22	9	4	2	1	0	1	3	1	3	4	2	2	1	1	2	5	6	14	16	12	7	11	10	4	5
23	2	5	3	1	0	0	1	3	2	2	2	3	3	3	4	7	6	6	3	3	8	4	7	4	3
24	3	3	5	5	4	6	13	14	17	12	12	8	6	6	8	9	11	7	9	7	6	3	6	4	8
25	1	M	1	1	1	4	11	19	17	9	3	2	3	3	4	M	26	24	18	9	9	6	7	6	8
26	6	5	6	7	6	6	8	13	14	15	14	17	14	12	13	13	16	22	28	17	12	12	11	8	12
27	8	11	10	9	11	12	14	13	13	13	22	27	20	17	23	35	40	42	52	30	19	15	13	13	20
28	17	18	15	12	13	11	11	13	18	22	14	14	12	11	12	16	15	20	24	26	19	18	17	20	16
29	21	14	14	12	12	12	11	11	12	12	9	8	8	11	15	17	17	16	20	21	18	17	16	14	14
30	14	21	22	18	15	13	15	20	23	27	20	15	10	10	13	18	19	21	21	21	19	19	17	17	18

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
7	7	10	7	19	26	51	73	0	-	82	3	-	37	2	100	0

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

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

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

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

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

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

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	3	3	2	2	3	3	4	4	5	7	10	16	20	9	9	11	14	8	12	14	10	4	5	8
2	3	3	10	4	4	4	12	18	15	15	14	13	12	12	15	19	17	18	17	19	16	12	9	10	12
3	9	7	5	5	6	5	8	14	19	17	13	13	13	12	11	11	18	21	20	9	6	6	6	6	11
4	3	2	2	3	3	3	7	10	8	10	8	7	9	8	10	10	11	13	10	7	5	4	4	4	7
5	3	3	3	2	2	3	6	7	8	7	5	6	6	7	7	11	14	14	11	10	7	5	5	5	7
6	4	5	1	1	2	3	9	14	26	24	22	26	30	31	30	32	33	40	34	30	31	43	63	83	26
7	58	11	8	12	6	6	8	12	11	14	16	21	17	16	15	31	43	55	36	48	32	16	11	12	21
8	10	7	5	5	4	4	5	6	9	13	11	9	8	8	10	10	9	11	13	12	8	12	8	7	9
9	7	7	5	5	5	6	10	15	17	13	11	10	11	12	15	13	13	11	10	9	8	7	7	7	10
10	5	4	3	3	3	4	12	21	25	21	13	12	13	12	12	15	16	17	13	10	9	7	7	7	11
11	4	M	4	2	2	3	8	11	12	12	11	9	8	10	11	13	14	12	11	11	9	6	6	5	8
12	4	4	3	3	3	3	7	15	16	15	10	7	8	10	12	12	16	22	13	13	14	14	13	11	10
13	10	7	6	5	5	5	11	18	22	23	20	12	14	16	13	16	16	17	15	13	9	7	7	6	12
14	5	5	4	3	4	5	10	12	14	18	12	10	9	10	13	16	19	19	16	15	13	11	9	6	11
15	6	5	4	3	2	3	3	5	4	4	5	5	5	5	6	8	10	10	11	10	8	6	5	5	6
16	3	2	2	1	1	1	3	7	7	6	5	5	4	4	8	11	13	10	9	8	5	3	4	5	5
17	2	2	1	1	1	1	3	4	4	4	4	4	4	4	5	8	9	13	15	22	13	8	14	4	6
18	2	1	1	0	0	2	8	10	8	10	17	19	21	21	22	15	16	19	17	8	5	5	3	10	10
19	10	18	19	15	16	12	13	18	25	24	29	18	12	17	19	23	26	29	40	34	32	27	15	16	21
20	17	25	23	23	21	24	23	23	31	33	29	28	22	21	20	13	14	15	11	5	4	3	2	4	18
21	4	2	1	4	3	2	2	2	2	3	4	4	3	4	6	8	9	7	6	5	3	3	4	5	4
22	5	3	2	2	2	1	4	3	4	4	4	4	4	4	5	8	14	8	21	43	33	21	13	7	9
23	4	3	4	1	0	1	2	4	4	5	4	5	8	10	8	9	12	16	16	16	16	17	15	11	8
24	9	9	8	8	7	8	12	19	21	26	32	27	19	13	12	15	22	17	11	9	7	4	5	4	14
25	4	M	3	1	1	2	7	13	15	12	10	9	8	10	14	24	13	21	16	14	9	8	7	5	10
26	3	2	2	2	2	3	8	14	16	21	25	46	26	11	14	16	17	21	27	32	31	32	25	10	17
27	5	4	1	5	7	8	11	13	18	17	18	18	18	18	17	21	23	24	27	26	15	11	10	14	15
28	12	8	6	6	5	5	4	6	7	8	9	12	9	9	8	9	10	14	13	16	18	13	14	11	10
29	9	8	7	8	4	4	7	7	5	5	6	6	4	4	8	8	8	8	9	13	11	9	9	11	7
30	11	9	6	4	4	4	7	11	11	12	9	9	9	10	10	9	15	20	16	20	19	9	10	14	11

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL		
8	9	11	9	21	27	33	43	0	-	83	4	-	26	2	100	0

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

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

STATION : POK FU LAM
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

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

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

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

STATION : POK FU LAM
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2020
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	17	M	11	10	9	9	11	16	15	19	27	21	31	42	15	14	21	26	18	16	18	16	13	10	18
2	7	7	5	13	19	11	20	41	50	43	36	35	37	33	28	39	36	45	49	54	51	44	26	31	32
3	30	25	24	15	13	15	25	29	51	54	40	36	36	32	29	47	51	59	46	23	17	17	17	15	31
4	10	10	10	9	9	9	11	29	29	26	20	17	17	17	19	20	31	27	25	16	13	12	12	9	17
5	9	8	8	8	7	8	11	18	15	13	13	14	12	14	14	20	31	39	35	26	24	16	16	18	17
6	11	10	7	8	8	10	12	33	74	55	48	54	51	47	43	66	72	88	86	85	72	64	150	191	56
7	153	33	17	17	15	14	15	25	31	41	46	43	43	39	38	66	63	110	75	89	74	38	25	20	47
8	20	20	18	10	14	14	15	18	18	22	24	28	21	24	24	22	23	32	36	30	23	20	21	14	21
9	14	15	14	14	16	18	23	36	43	52	31	27	27	35	38	34	33	26	25	23	16	16	14	13	25
10	14	14	12	13	11	15	25	45	66	70	53	50	47	32	43	40	41	39	41	28	24	23	17	15	32
11	12	11	9	9	10	11	18	35	37	34	29	24	23	30	25	26	28	31	29	28	20	15	17	14	22
12	12	11	9	10	10	12	19	43	49	40	34	17	20	35	28	30	36	53	36	25	23	20	25	25	26
13	20	19	20	20	23	22	35	56	65	65	64	54	41	32	35	39	36	43	29	27	24	17	13	20	34
14	13	12	14	14	15	16	17	26	33	39	23	19	16	19	32	39	41	44	40	29	25	22	19	12	24
15	11	M	17	12	10	9	9	9	10	9	7	10	7	7	9	14	23	27	29	22	25	21	31	12	15
16	11	10	9	7	7	8	11	21	29	21	15	13	13	10	24	25	29	28	35	20	16	13	12	11	17
17	7	6	5	6	6	6	8	13	17	13	20	18	15	10	19	22	34	72	82	92	33	35	52	15	25
18	9	7	6	6	5	8	29	25	28	35	38	51	49	47	51	33	29	57	49	22	18	17	38	16	28
19	26	46	50	38	43	30	28	52	49	51	54	57	32	29	27	30	29	60	57	67	62	48	62	63	45
20	68	63	60	54	51	57	53	52	53	57	51	52	52	37	32	23	35	29	24	15	11	5	5	6	39
21	7	7	12	13	11	9	8	10	11	12	13	12	13	14	17	21	25	20	15	12	8	8	8	11	12
22	12	12	10	8	6	6	7	14	19	12	11	16	9	8	10	15	25	17	29	94	74	60	49	13	22
23	10	9	9	7	5	4	6	11	14	15	11	16	16	14	17	23	22	26	22	20	27	31	29	24	16
24	14	11	11	11	10	11	26	45	47	41	39	54	38	31	24	30	45	30	26	24	16	11	12	13	26
25	12	8	8	7	7	12	17	22	30	33	21	12	11	21	27	38	29	25	50	32	17	10	11	12	20
26	10	9	8	8	9	7	13	26	46	55	56	57	42	19	32	29	42	37	58	71	61	74	100	30	37
27	17	12	15	26	33	36	44	42	51	45	43	40	39	38	36	M	M	64	87	78	35	33	26	45	40
28	40	31	24	24	19	19	21	31	33	35	35	41	32	36	33	29	33	46	41	53	44	48	44	30	34
29	31	M	30	28	21	19	23	32	24	23	24	23	18	17	26	29	26	28	32	41	36	32	35	46	28
30	39	39	28	24	23	24	27	38	43	41	34	33	30	29	31	31	48	53	46	44	43	37	55	57	37

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----				STN GEOM	PERCENT	NO. OF TIMES
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL	
23	24	28	24	52	63	75	89	4	-	191	12	-	56	2	99	0	

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

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

STATION : AP LEI CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
2	1	1	1	3	4	5	7	0	-	16	0	-	4	2	100	0

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

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

STATION : AP LEI CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2020
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	2	2	3	1	2	5	7	5	4	4	7	12	12	2	3	5	12	12	24	14	11	4	6	7
2	7	4	1	0	1	5	20	49	44	37	27	20	12	14	15	44	41	37	51	42	40	25	17	16	24
3	14	12	9	9	8	9	17	26	34	41	34	25	17	18	8	22	18	26	19	6	5	6	3	4	16
4	2	1	0	2	1	3	12	20	18	15	8	10	4	2	3	4	10	10	5	2	1	0	0	1	6
5	0	0	1	0	1	3	6	5	8	5	5	4	5	4	5	5	3	3	4	3	1	1	4	6	3
6	0	0	0	1	1	2	16	27	51	55	51	58	35	40	50	67	72	68	65	55	78	94	129	136	48
7	104	48	32	26	15	16	17	22	40	56	44	43	38	42	59	66	51	45	67	59	59	48	31	19	44
8	16	11	10	9	7	8	8	10	16	19	15	13	15	12	16	17	22	30	30	17	13	8	3	5	14
9	5	8	7	6	8	12	17	37	33	23	16	16	16	17	11	10	10	8	6	7	6	6	7	7	12
10	5	3	2	3	3	7	18	27	36	38	34	24	21	21	23	28	27	21	13	8	11	4	3	4	16
11	4	M	4	3	3	5	10	21	17	17	14	10	7	5	4	5	3	4	6	6	3	3	2	2	7
12	2	2	2	3	3	6	17	32	36	33	14	7	9	6	2	3	7	12	12	10	6	5	6	16	10
13	12	13	15	19	16	20	43	69	70	54	M	26	33	37	40	36	30	19	24	16	13	14	17	23	29
14	17	14	16	16	17	20	26	35	37	31	25	22	20	21	30	35	32	36	41	38	32	29	20	12	26
15	15	11	10	9	8	9	11	11	11	12	11	11	9	9	9	13	17	16	14	12	12	11	11	10	11
16	9	7	7	6	6	8	12	20	12	10	10	9	8	7	7	10	10	11	17	16	12	8	9	11	10
17	8	8	7	6	6	7	8	10	11	11	11	10	10	10	12	12	21	19	20	16	11	12	13	12	11
18	12	8	8	8	8	10	21	19	13	10	13	14	46	61	39	7	9	10	6	6	7	11	9	11	15
19	8	8	7	8	8	8	18	50	55	53	44	16	12	13	24	16	19	21	27	34	23	20	17	20	22
20	20	11	24	40	23	13	40	48	49	51	35	48	31	21	19	13	14	14	9	8	7	8	9	8	23
21	8	7	7	15	9	8	8	8	11	12	14	15	10	12	10	17	15	12	13	8	6	7	8	11	10
22	11	10	10	8	7	5	7	9	10	9	8	9	9	7	8	10	11	8	11	42	51	15	16	12	13
23	12	10	8	6	4	5	5	8	9	7	8	10	12	12	12	12	20	21	19	18	21	15	15	9	12
24	9	8	9	9	10	12	22	32	30	21	26	15	10	9	11	13	13	9	9	11	9	6	7	9	13
25	8	M	7	5	6	10	21	31	21	18	12	14	16	12	16	15	15	19	14	14	10	10	12	8	14
26	7	6	6	7	6	7	13	23	22	28	34	19	14	11	20	62	33	33	22	39	70	26	15	10	22
27	10	12	10	13	19	19	29	35	43	38	43	43	45	47	52	54	45	62	64	59	48	33	30	34	37
28	31	30	26	22	16	17	21	25	26	30	31	42	34	27	24	28	39	39	39	45	41	37	35	35	31
29	28	27	23	26	20	18	19	23	24	25	24	16	19	16	24	28	19	28	31	36	30	32	33	34	25
30	32	30	23	19	19	22	25	37	36	38	35	33	27	23	35	36	34	40	39	31	25	30	32	30	30

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
13	13	19	13	40	51	63	70	0	-	136	3	-	48	2	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 200

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

STATION : CHEUNG CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2020
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	1	0	1	1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	2	2	2	1	2	2	3	1	0	0	0	0	0	0	0	1
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	0	1	1	4	4	4	6	7	7	7	6	6	7	8	6	7	9	4
7	9	7	7	8	7	7	6	8	8	8	7	7	7	6	6	5	5	4	2	3	2	3	4	7	6
8	5	5	7	8	8	8	6	6	6	6	6	6	5	6	5	6	5	4	3	4	4	2	0	1	5
9	0	0	0	0	3	6	5	5	5	6	6	6	6	5	3	3	3	1	0	0	0	0	0	1	3
10	0	0	0	0	2	7	7	7	7	7	6	5	5	5	5	4	4	3	3	2	0	0	0	1	3
11	0	0	0	0	0	0	0	2	5	6	4	3	3	1	2	1	0	0	0	0	0	0	0	1	1
12	0	0	0	0	0	0	0	0	1	1	2	2	1	2	1	1	1	0	0	0	0	0	0	0	1
13	0	0	1	3	3	3	3	2	2	3	3	3	2	1	0	1	1	0	0	1	0	0	0	1	1
14	0	0	1	1	1	1	1	3	4	4	4	3	2	2	3	4	2	0	1	2	2	2	0	2	2
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	1	6	1	0	0	0	0	2	2	0	0	0	0	0	0	0	1
17	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
19	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	1	0	0	0	1	0
20	0	0	0	0	0	0	0	0	0	0	1	1	4	4	2	2	6	1	1	0	0	0	0	1	1
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	1	0	0	1	0	3	0
24	0	1	1	1	1	1	1	1	1	5	5	5	4	4	4	5	3	2	1	2	1	0	1	2	2
25	1	0	0	0	0	1	1	1	2	2	2	3	3	2	3	3	3	2	2	1	1	1	1	3	2
26	1	1	1	1	1	0	0	2	3	4	4	5	6	5	6	5	5	2	2	1	1	1	1	3	3
27	2	1	1	1	1	2	1	1	1	2	2	2	3	3	3	3	3	2	2	2	1	1	1	3	2
28	1	0	0	0	1	0	0	0	0	0	1	1	1	2	1	1	1	0	1	2	2	1	2	2	2
29	1	1	0	1	1	1	1	1	0	0	0	1	1	2	2	2	2	2	2	2	2	1	1	3	1
30	2	1	1	1	0	1	0	1	0	3	2	2	2	1	M	M	0	0	0	0	0	0	0	0	1

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
2	0	1	0	5	6	7	8	0	-	9	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: NOVEMBER

STATION : CHEUNG CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	3	0	0	0	1	5	5	11	23	10	1	1	4	1	4	19	17	26	18	36	39	19	26	11
2	24	33	59	34	18	23	24	40	28	30	36	32	31	31	16	17	15	34	56	51	25	28	21	12	30
3	9	10	7	5	6	10	14	25	25	35	29	33	46	34	57	43	47	45	36	11	16	10	15	2	24
4	19	32	14	9	14	1	15	31	41	42	33	5	0	0	1	0	6	16	17	22	11	17	15	14	16
5	11	15	3	0	3	3	1	9	7	7	3	6	1	1	0	4	7	5	6	6	14	11	9	18	6
6	10	5	6	6	9	4	22	71	56	53	83	83	55	41	50	53	71	63	76	165	188	183	104	194	69
7	144	57	84	87	73	45	87	86	79	86	71	81	78	65	80	123	150	36	136	92	69	70	81	71	85
8	44	41	49	50	45	54	51	68	69	56	49	46	42	43	21	54	57	61	74	48	40	31	9	12	46
9	12	16	12	15	25	21	29	33	44	53	48	52	47	30	12	9	10	10	18	14	14	16	13	17	24
10	11	8	8	13	24	46	40	51	61	73	60	42	47	59	53	71	74	40	25	19	11	10	10	15	36
11	8	M	5	5	20	28	20	59	62	55	48	34	24	6	5	9	6	4	6	20	20	14	12	21	21
12	9	10	5	7	13	31	47	50	50	58	50	37	16	10	8	7	8	8	18	18	16	34	13	15	22
13	31	123	101	50	23	32	37	42	50	68	69	79	46	39	17	27	31	19	50	50	12	12	34	52	46
14	44	43	50	40	56	46	78	79	72	65	54	40	37	26	60	62	54	25	50	79	95	82	39	23	54
15	21	14	9	10	5	6	14	21	12	7	13	15	14	11	9	7	5	9	12	19	21	11	11	15	12
16	7	6	13	6	9	2	6	17	23	19	13	8	8	1	4	18	11	9	13	13	12	13	17	30	12
17	12	6	9	3	4	11	9	13	10	10	8	7	3	2	6	6	14	16	12	12	4	3	7	16	8
18	15	10	6	9	20	37	33	39	16	24	20	29	51	41	14	11	12	18	12	15	17	14	11	46	22
19	10	16	36	33	32	23	35	58	63	40	30	20	11	5	9	11	12	39	67	90	63	42	31	28	34
20	9	31	33	23	22	39	46	51	32	23	28	23	18	24	17	27	68	74	54	23	20	23	31	25	32
21	9	16	24	14	9	6	8	10	8	16	18	29	23	16	25	20	13	8	4	7	6	3	5	6	13
22	6	14	22	22	18	23	24	17	29	32	15	7	14	10	30	16	33	33	42	76	33	16	11	11	23
23	8	10	18	17	7	5	4	14	21	12	6	14	5	12	10	15	14	29	20	54	64	37	10	10	17
24	9	9	8	10	8	15	44	51	45	58	48	35	12	5	12	11	10	10	9	18	14	5	8	13	19
25	14	M	6	5	19	44	41	78	46	30	23	31	34	24	15	12	14	19	12	11	12	10	11	12	23
26	14	17	4	9	10	12	9	47	60	63	55	38	27	18	20	14	28	29	15	23	37	21	16	21	25
27	14	14	41	36	23	25	28	31	27	39	32	46	50	55	60	66	50	42	58	39	40	30	29	33	38
28	24	27	25	16	16	16	19	23	20	23	37	37	46	46	35	40	39	45	83	57	46	41	47	36	35
29	26	23	21	19	22	23	22	25	21	22	18	19	21	27	31	29	41	55	55	40	38	39	42	40	30
30	36	29	26	20	18	19	26	30	27	29	28	29	32	21	M	M	60	89	103	99	82	80	61	79	47

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
21	21	29	21	61	78	91	123	0	-	194	6	-	85	3	99	0

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

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

STATION : VICTORIA PEAK
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
5	5	5	5	8	8	10	11	2	-	13	3	-	9	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: DECEMBER

STATION : VICTORIA PEAK
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	25	26	27	24	24	21	25	29	30	32	34	21	14	19	26	24	25	37	45	28	30	27	31	36	28
2	35	28	23	17	19	18	25	31	36	39	34	25	15	18	22	20	27	28	31	36	35	31	28	29	27
3	24	21	16	17	13	11	15	20	28	26	24	25	22	20	21	22	27	36	38	35	32	26	27	25	24
4	21	15	14	14	12	13	17	27	28	28	27	27	26	23	21	23	33	39	33	41	35	29	30	27	25
5	24	20	18	15	14	13	16	23	29	28	30	30	24	21	26	33	48	53	54	49	44	34	24	27	29
6	27	30	21	22	22	20	24	28	31	27	19	12	9	15	29	43	50	48	34	17	21	22	17	13	25
7	21	18	21	23	47	19	26	34	45	53	56	41	42	35	30	39	58	58	53	47	51	48	38	20	38
8	20	17	17	13	19	24	24	28	35	38	40	49	46	41	40	44	54	59	51	43	33	31	20	21	34
9	20	M	15	15	16	22	26	34	35	41	32	20	16	11	15	19	22	35	44	36	30	21	16	15	24
10	12	11	9	9	10	11	18	25	29	32	28	28	38	37	40	48	41	67	98	98	64	22	13	13	33
11	13	11	8	7	7	8	8	20	26	24	16	16	18	20	21	32	20	36	45	39	47	46	39	38	24
12	37	33	36	41	38	32	32	36	27	28	27	24	30	21	29	27	22	22	19	16	15	10	8	10	26
13	7	11	11	9	9	8	8	10	11	9	10	9	10	8	10	12	10	10	6	10	9	11	10	11	10
14	11	9	8	8	9	10	11	13	20	27	23	21	20	22	27	27	M	38	38	47	42	34	25	24	22
15	22	16	11	11	14	16	21	23	23	20	17	20	20	25	32	36	45	52	52	50	44	42	40	33	29
16	24	31	23	21	17	17	25	26	28	28	M	26	20	21	26	28	34	35	51	49	43	37	37	34	30
17	20	12	8	2	0	3	11	16	20	18	18	16	22	21	24	35	45	52	57	56	56	49	45	38	27
18	33	33	34	22	12	9	13	18	21	16	16	17	18	23	28	33	39	47	45	35	28	21	20	21	25
19	17	7	3	1	2	3	5	11	9	6	6	11	10	19	21	17	19	25	22	24	19	10	12	11	12
20	9	7	2	1	0	2	3	6	3	2	2	4	1	4	6	11	9	13	13	13	14	13	14	7	7
21	6	2	0	0	0	0	0	7	11	8	15	17	19	12	13	10	8	14	12	18	12	18	24	25	10
22	23	14	3	2	0	2	6	18	30	22	12	9	4	7	15	16	35	38	47	53	57	8	4	1	18
23	0	0	0	0	0	0	0	9	26	10	12	11	9	12	19	26	37	38	29	17	19	6	6	6	12
24	0	1	3	0	18	0	2	11	22	19	14	17	17	24	29	37	37	47	46	62	68	20	13	6	21
25	5	8	4	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
26	0	0	0	0	0	0	0	0	0	0	0	0	3	2	3	4	14	9	5	7	6	0	7	10	3
27	6	3	1	1	0	0	0	0	0	0	34	23	53	81	74	74	83	101	113	80	72	81	61	15	40
28	4	1	0	0	0	1	2	9	27	21	12	8	6	5	9	11	11	6	9	8	9	8	6	6	7
29	3	1	0	0	1	2	2	2	6	45	43	38	53	58	58	43	47	64	35	59	67	86	64	118	37
30	135	55	25	19	19	19	25	29	31	30	34	22	31	25	16	17	24	28	27	23	21	18	20	15	30
31	10	9	7	5	4	3	11	27	36	37	34	25	11	19	24	28	36	53	59	50	46	42	32	31	27

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
19	20	23	20	45	53	67	82	0	-	135	1	-	40	2	100	0

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH: DECEMBER

YEAR : 2020

UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----									-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
4	5	5	5	7	8	9	10	2	-	14	2	-	8	2	100	0

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH: DECEMBER

YEAR : 2020

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	16	17	14	13	14	12	12	21	24	16	10	9	9	9	10	11	14	14	10	9	12	18	17	20	14
2	16	18	20	15	13	13	15	20	25	13	9	9	9	10	12	11	13	17	27	23	17	16	16	17	16
3	25	20	17	13	13	11	13	16	15	17	19	22	21	20	23	22	27	25	27	26	16	15	14	14	19
4	18	14	13	12	13	12	15	16	14	17	17	23	22	25	27	23	25	28	29	20	16	12	13	16	18
5	18	19	15	13	13	13	15	20	21	24	14	8	9	12	30	51	45	36	25	22	18	20	22	14	21
6	17	16	15	13	11	11	11	11	13	13	11	8	7	7	11	13	13	11	10	11	11	14	11	10	12
7	10	14	22	35	31	26	24	38	44	26	20	52	59	61	49	47	44	86	66	61	54	53	20	23	40
8	25	22	17	17	19	21	26	23	40	44	33	19	16	17	30	68	74	58	32	25	24	22	24	24	30
9	21	M	19	16	17	18	19	26	37	21	19	17	12	12	13	13	14	20	23	18	18	13	14	13	18
10	12	12	11	12	11	14	16	15	22	24	22	21	20	34	39	M	57	46	59	67	39	23	23	15	27
11	14	12	11	10	11	11	15	15	16	17	16	15	11	12	13	13	16	19	14	12	11	13	19	22	14
12	25	31	29	32	37	34	29	21	23	20	25	24	18	17	23	19	20	22	19	15	17	15	16	15	23
13	13	12	11	11	11	10	10	10	10	10	10	11	11	10	12	11	10	12	15	13	11	11	11	14	11
14	11	10	12	12	10	14	15	13	13	13	17	16	17	17	19	21	24	25	21	20	18	16	15	14	16
15	14	14	14	15	14	13	13	14	13	12	15	17	16	16	17	19	22	31	28	19	19	18	17	17	17
16	19	19	16	16	16	16	13	14	17	16	17	19	19	20	36	33	33	29	25	23	25	15	16	19	20
17	25	22	19	18	16	14	15	16	15	15	15	17	22	39	28	29	34	41	48	48	54	46	23	14	26
18	21	22	30	14	31	33	30	29	28	28	31	34	38	41	44	52	64	65	54	47	38	31	26	24	36
19	23	20	14	15	16	14	13	15	21	24	28	32	31	35	33	35	39	38	40	28	26	21	23	25	25
20	26	20	18	18	19	18	18	19	20	19	19	22	22	22	22	25	31	28	26	24	19	17	16	16	21
21	15	13	13	13	13	13	16	19	22	28	42	40	25	30	21	17	17	17	17	26	26	23	20	19	21
22	18	17	14	15	11	10	12	13	13	14	15	13	10	11	12	13	16	17	17	23	25	14	13	15	15
23	10	M	9	9	10	12	12	16	21	18	18	21	24	20	17	18	23	24	31	21	19	24	24	22	18
24	23	21	24	50	55	29	37	38	33	35	31	41	42	45	45	52	61	71	90	92	50	45	40	23	45
25	20	23	17	15	11	14	17	14	12	15	15	14	13	11	11	13	14	16	14	14	13	12	10	10	14
26	10	9	10	10	9	9	8	9	11	10	10	11	11	10	10	12	11	13	11	10	11	14	11	10	10
27	9	9	8	9	7	8	14	15	10	13	11	59	60	42	29	40	37	30	34	38	44	21	10	12	24
28	9	10	7	10	11	12	10	10	12	14	13	10	10	9	11	12	11	10	11	11	12	12	10	9	11
29	9	9	9	9	9	9	11	11	11	11	10	10	10	11	10	16	12	14	25	29	35	64	121	106	24
30	134	55	28	22	21	22	24	22	19	17	18	21	18	17	21	18	18	20	19	17	16	14	11	11	25
31	13	11	9	8	7	7	8	12	14	14	9	8	8	10	12	14	16	20	26	31	24	16	13	13	13

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
18	17	21	17	37	48	61	70	7	-	134	10	-	45	2	100	0

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

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

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

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

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

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

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	10	9	8	7	7	6	8	10	10	10	10	6	2	4	7	9	11	15	19	11	10	10	7	13	9
2	9	8	6	4	3	3	5	11	13	12	10	6	2	3	4	5	9	11	15	15	13	11	11	9	8
3	7	4	4	3	3	0	3	6	8	9	8	7	6	6	5	6	9	12	12	11	7	6	6	9	7
4	6	4	4	4	2	1	3	5	8	8	9	9	8	7	6	6	11	14	15	14	11	9	10	8	8
5	7	5	4	2	2	2	4	7	6	7	7	7	7	8	13	18	20	22	21	17	13	11	8	10	10
6	13	13	7	5	5	5	8	9	13	14	10	7	4	16	19	19	28	19	20	16	9	6	4	19	12
7	19	20	22	20	25	11	10	17	15	19	31	26	26	24	19	30	34	43	28	31	19	16	17	9	22
8	7	6	5	4	8	10	11	17	19	16	23	22	19	23	28	28	29	32	37	24	15	14	8	8	17
9	7	M	5	4	5	6	9	14	15	15	14	7	6	4	6	7	9	12	20	18	17	9	7	6	10
10	4	2	1	1	2	2	8	14	17	18	16	15	29	28	21	18	23	33	30	31	31	16	7	7	16
11	4	3	2	1	1	2	5	9	11	9	7	6	8	7	7	15	14	36	29	20	9	6	12	21	10
12	32	37	35	32	30	30	22	21	13	10	17	17	12	10	11	15	14	12	9	7	6	4	3	2	17
13	1	1	1	0	0	1	2	3	5	3	3	3	4	3	4	5	4	3	1	10	20	19	26	27	6
14	20	11	4	3	1	0	3	6	10	10	9	8	8	8	9	11	17	14	19	19	17	18	17	15	11
15	12	12	6	8	5	5	5	7	7	9	7	6	6	9	12	16	19	22	25	23	20	20	18	17	12
16	16	14	13	13	10	8	9	10	10	11	12	13	13	16	16	18	19	19	24	22	20	20	18	17	15
17	16	14	11	12	11	11	10	11	11	11	12	11	11	14	16	20	25	27	28	29	29	26	23	22	17
18	24	21	20	18	17	9	11	13	13	13	13	16	18	20	21	23	28	27	26	23	16	15	11	12	18
19	9	7	6	4	4	6	8	10	9	8	10	14	14	18	20	19	16	18	17	14	11	9	8	8	11
20	8	9	6	4	3	3	4	5	5	4	5	5	6	8	10	9	8	9	11	9	9	9	6	6	7
21	7	5	3	2	2	2	3	7	8	9	12	15	22	20	18	21	14	11	16	14	11	14	14	17	11
22	13	9	5	3	3	4	5	10	16	18	9	6	6	6	8	12	13	25	33	32	31	17	7	5	12
23	3	M	2	2	1	1	4	10	13	9	10	12	10	14	24	13	22	29	35	31	28	22	20	20	15
24	23	18	15	21	19	16	19	19	20	23	27	26	26	34	34	34	29	37	35	34	37	32	14	11	25
25	9	8	8	4	3	5	4	5	3	4	5	5	6	6	13	5	4	4	4	3	3	2	2	2	5
26	2	1	1	1	1	1	2	4	5	4	2	3	3	2	3	2	3	6	5	20	8	2	4	16	4
27	5	0	0	0	1	1	8	13	17	28	36	32	44	37	23	19	31	38	43	51	44	36	32	57	25
28	52	33	15	4	2	3	4	2	11	8	5	4	3	2	3	3	4	4	3	3	3	3	2	3	7
29	2	1	0	0	0	1	4	8	13	18	13	21	27	29	26	30	25	25	39	40	42	39	38	42	20
30	51	24	12	7	5	5	6	7	8	7	7	7	6	5	5	6	7	7	8	6	5	5	5	4	9
31	2	1	1	0	0	0	1	4	7	10	8	6	3	4	7	8	11	13	14	10	12	10	5	5	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		
9	9	12	9	27	32	37	43	0	-	57	4	-	25	2	100	0

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

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

STATION : POK FU LAM
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

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

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

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

STATION : POK FU LAM
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2020
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	46	45	36	32	30	28	32	39	38	37	37	25	16	17	27	32	38	56	56	45	34	27	33	42	35
2	38	37	31	20	20	27	34	52	48	44	38	25	13	17	20	28	32	43	56	54	50	49	51	34	36
3	29	23	21	21	20	15	23	33	30	34	34	28	28	27	31	35	39	42	48	38	34	33	33	40	31
4	35	26	24	24	20	17	24	29	35	37	33	33	30	27	29	30	40	45	53	52	56	49	48	39	35
5	33	32	24	21	22	21	25	33	34	M	32	29	26	28	46	50	66	70	72	54	42	36	27	60	38
6	75	56	35	31	35	45	48	52	50	51	44	38	21	31	40	53	61	61	71	41	32	29	98	143	52
7	108	75	82	71	86	52	46	59	52	62	67	61	63	55	54	80	98	115	107	68	49	48	45	25	68
8	24	31	25	27	35	44	39	63	64	57	69	57	54	64	75	81	76	85	86	60	41	42	30	24	52
9	36	27	32	27	30	34	38	54	56	56	52	29	20	19	24	25	35	38	53	52	45	34	30	19	36
10	18	17	16	20	19	23	29	40	61	64	53	52	61	56	59	54	66	82	89	98	97	42	22	20	48
11	22	17	14	12	12	13	16	29	41	38	24	22	25	23	25	35	32	85	90	69	48	26	38	58	34
12	81	107	105	98	81	74	72	65	59	41	37	36	42	29	36	45	40	33	37	28	25	19	13	12	51
13	12	M	18	12	12	11	13	16	18	17	15	15	16	13	15	20	17	18	14	18	46	54	82	89	24
14	60	32	14	11	12	14	19	35	28	33	25	28	24	24	27	29	32	66	73	59	59	61	60	50	36
15	44	42	32	35	26	28	30	36	38	41	29	27	33	38	44	54	65	75	74	71	64	63	60	53	46
16	54	48	44	44	32	30	37	41	41	46	43	43	44	49	56	M	56	68	69	67	62	58	57	50	50
17	50	45	44	42	41	39	36	38	42	46	41	36	36	44	49	60	73	80	83	84	83	78	70	65	54
18	68	61	58	54	50	30	40	47	43	35	35	39	45	50	54	60	72	70	74	65	49	48	42	40	51
19	33	26	28	22	22	27	35	45	36	34	36	44	37	49	54	51	50	57	53	55	38	32	33	30	39
20	34	30	28	23	21	20	24	27	26	23	22	24	23	32	34	34	35	35	36	34	36	36	30	29	29
21	32	28	21	17	19	19	25	41	42	44	49	56	57	48	50	67	65	36	39	55	42	60	52	61	43
22	45	35	25	24	22	26	28	48	66	66	61	45	22	22	34	42	34	55	104	124	107	72	25	21	48
23	18	14	12	12	11	14	26	41	55	46	55	38	34	40	57	39	55	91	89	89	81	66	64	54	46
24	64	68	63	69	56	57	56	59	59	50	48	49	51	57	64	69	73	102	94	96	96	80	42	26	65
25	25	39	27	20	17	15	16	27	19	20	20	16	17	18	44	21	20	18	20	18	17	13	12	13	21
26	11	11	11	11	10	11	27	38	41	35	18	13	17	12	12	13	21	20	20	40	38	27	54	28	22
27	16	M	13	13	14	24	37	19	33	70	84	56	76	66	41	42	63	74	98	117	137	128	145	152	66
28	131	108	54	31	16	11	13	26	72	25	20	18	15	14	16	17	18	16	16	17	16	16	15	M	30
29	10	10	9	7	9	11	22	64	65	60	45	65	60	52	53	60	46	71	96	109	117	124	120	137	59
30	139	62	38	24	22	24	28	31	32	30	33	33	25	25	28	32	33	37	39	33	27	28	28	19	35
31	19	15	15	14	13	15	17	32	44	43	31	28	26	27	26	30	41	57	58	44	41	39	27	23	30

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	
36	37	42	37	72	89	108	126	7	-	152	21	-	68	2	99	0	

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

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

STATION : AP LEI CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
2	2	3	2	5	6	8	10	0	-	21	1	-	6	2	96	0

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

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

STATION : AP LEI CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	25	27	29	27	25	25	32	35	32	34	31	17	10	12	15	20	20	14	14	17	28	30	28	36	24	
2	38	30	27	20	21	21	29	33	32	33	19	10	8	11	13	19	25	32	46	44	40	34	34	29	27	
3	29	22	18	20	16	13	16	22	26	25	23	23	28	25	26	27	35	35	38	31	31	33	33	28	26	
4	24	17	17	16	15	15	22	27	28	26	28	29	25	27	27	30	32	39	49	48	38	33	34	33	28	
5	27	21	21	18	17	20	23	26	26	26	29	22	18	31	42	57	63	58	70	63	53	30	37	35	35	
6	35	37	23	25	27	26	28	31	30	34	15	10	10	14	39	29	14	16	18	22	31	30	28	27	25	
7	33	32	42	47	47	32	39	50	50	67	63	63	67	59	52	79	93	99	108	108	74	59	45	27	60	
8	23	26	28	21	22	33	41	50	54	56	61	59	53	65	76	83	81	78	78	51	51	39	29	30	50	
9	35	M	22	19	22	28	38	45	51	48	28	16	17	16	20	17	20	29	30	25	24	18	26	20	27	
10	18	17	13	13	14	17	27	33	36	34	22	24	71	58	62	69	58	51	40	58	62	20	17	14	35	
11	11	11	10	10	9	10	11	15	14	15	15	14	13	12	12	M	11	16	20	9	8	10	16	63	15	
12	88	89	92	82	63	44	32	32	21	14	17	19	26	27	16	16	9	9	10	4	7	4	4	6	30	
13	4	6	7	5	5	4	5	4	6	4	6	6	7	5	6	14	8	8	10	15	11	10	7	8	7	
14	7	5	5	4	5	7	12	14	16	13	16	14	15	16	17	17	21	26	31	47	44	38	25	21	18	
15	20	14	8	8	11	14	19	24	23	17	13	15	17	20	23	45	58	63	65	61	57	48	48	41	31	
16	37	34	27	24	17	18	23	30	31	32	34	35	28	26	39	44	50	49	64	59	62	50	52	48	38	
17	29	21	17	12	12	12	25	32	32	27	34	34	32	35	41	52	63	69	75	77	74	69	64	47	41	
18	49	58	54	48	44	31	29	37	35	32	29	29	M	47	52	56	58	63	65	54	45	38	31	32	44	
19	34	23	16	13	13	15	21	27	23	23	27	29	33	39	39	37	44	55	52	33	30	27	26	24	29	
20	22	23	17	16	15	18	21	23	21	20	18	19	20	24	31	28	28	36	37	39	32	27	27	20	24	
21	22	17	14	12	12	13	17	27	32	37	35	44	55	47	40	20	16	23	27	33	35	32	39	41	29	
22	41	32	24	16	14	15	21	33	44	25	12	10	11	11	12	15	19	59	50	75	44	15	15	10	26	
23	6	M	3	4	5	8	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
24	M	M	M	M	M	M	M	M	M	M	31	44	48	49	49	56	64	81	87	89	89	47	35	25		
25	17	20	16	12	9	7	9	10	9	11	13	14	10	6	7	7	7	8	8	7	6	5	4	5	9	
26	4	4	4	5	4	5	6	6	6	4	5	7	6	4	4	4	4	6	13	11	7	5	4	9	6	
27	6	3	5	5	4	7	14	14	29	66	54	64	64	35	27	45	71	73	62	41	41	48	66	62	38	
28	35	19	5	5	5	6	19	17	14	11	7	5	5	4	6	8	6	4	5	5	5	5	3	6	9	
29	4	3	3	1	3	6	8	11	19	24	45	73	56	44	43	44	75	83	55	42	34	87	110	104	41	
30	126	50	21	17	16	17	20	21	19	19	22	21	20	19	19	19	25	30	26	20	17	17	18	15	26	
31	14	13	9	7	7	7	12	24	28	27	23	14	10	11	10	14	30	39	49	46	34	29	18	16	20	

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----				STN GEOM	PERCENT	NO. OF TIMES
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL	
22	24	29	24	58	69	83	92	1	-	126	6	-	60	2	96	0	

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

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

STATION : CHEUNG CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2020
UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
2	1	2	1	4	5	7	8	0	-	10	0	-	6	2	98	0

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

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

STATION : CHEUNG CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2020
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	53	61	62	52	40	44	44	46	52	51	53	45	34	48	43	43	19	19	23	35	85	109	78	66	50
2	61	59	69	64	59	45	55	63	44	52	63	56	38	35	37	45	40	42	43	58	58	49	41	58	51
3	62	59	49	39	36	40	43	46	34	33	23	26	29	29	32	39	41	47	48	37	40	37	37	36	39
4	31	33	38	45	41	40	35	34	32	39	31	31	30	36	41	41	45	53	66	43	42	44	39	41	40
5	37	36	30	30	28	27	32	38	35	31	29	34	40	52	63	64	59	65	99	79	75	83	88	76	51
6	39	34	35	33	32	30	32	42	45	41	42	39	38	32	36	23	28	25	22	31	72	98	99	103	44
7	43	76	141	188	193	162	125	106	82	93	76	76	65	M	M	76	87	101	115	111	103	118	57	47	102
8	49	40	28	22	20	26	37	38	45	60	71	73	72	61	68	73	74	111	78	73	58	40	34	46	54
9	42	M	43	32	31	29	33	49	44	38	34	51	27	17	14	17	9	9	18	31	24	20	17	26	28
10	25	27	42	20	16	26	48	52	45	53	56	58	57	50	42	50	70	62	55	58	61	40	20	21	44
11	11	9	9	13	10	12	10	7	8	12	14	13	9	12	11	16	19	15	24	25	19	17	25	32	15
12	30	61	92	78	110	91	78	78	72	44	14	15	14	19	16	17	17	20	19	7	9	11	9	9	39
13	6	15	20	10	21	29	10	15	15	10	20	23	8	9	7	18	16	29	21	57	26	65	49	28	22
14	7	16	29	10	16	38	24	13	19	19	24	44	66	65	67	71	74	73	68	61	47	51	53	48	42
15	35	37	37	32	28	24	23	26	25	32	33	40	39	40	47	60	76	76	81	73	69	64	57	43	46
16	45	38	34	34	34	29	29	28	25	37	38	38	47	56	57	52	53	60	62	64	51	47	47	47	44
17	43	44	36	24	26	29	31	29	28	29	25	32	41	49	59	70	83	93	94	96	83	75	75	71	53
18	71	69	66	59	57	52	50	45	39	41	38	39	M	57	62	60	56	51	50	57	46	32	27	25	50
19	24	33	33	25	20	19	23	24	29	29	33	40	47	49	46	38	41	53	58	53	35	29	24	28	35
20	25	22	22	24	23	22	20	21	22	25	20	21	26	32	41	45	39	43	49	53	43	41	32	31	31
21	28	20	16	17	18	19	24	27	28	38	43	56	54	59	64	68	57	50	45	104	114	62	42	54	46
22	47	60	48	41	30	30	29	44	52	49	56	51	51	47	22	9	13	41	37	51	52	54	19	22	40
23	17	M	17	M	14	34	29	67	65	57	53	50	54	59	50	23	29	47	79	126	110	88	67	93	56
24	93	75	61	60	41	39	53	54	46	48	44	M	51	52	53	58	78	69	69	81	94	86	84	87	64
25	75	63	53	57	43	40	48	21	23	22	15	15	30	6	8	11	8	8	9	22	17	14	7	14	26
26	15	24	25	8	13	12	12	24	15	6	5	4	5	5	4	5	5	14	88	85	50	24	71	22	
27	68	48	23	18	37	72	65	71	60	69	50	36	26	40	42	39	29	43	59	57	64	45	99	121	53
28	87	125	115	80	55	69	92	90	70	39	17	24	28	28	10	4	9	5	20	18	15	10	22	16	44
29	15	15	6	5	5	16	18	17	20	37	39	52	18	15	20	27	47	69	62	73	62	58	54	54	34
30	86	51	33	29	24	32	31	31	31	34	33	36	32	31	34	39	37	39	37	37	26	26	24	25	35
31	19	17	15	14	15	15	19	25	28	29	29	31	31	30	30	25	40	48	62	59	52	43	42	33	31

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		
35	39	43	39	75	88	110	120	4	-	193	15	-	102	2	99	0

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

Appendix C Summary Results on Water Quality Monitoring

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

Period : October - December 2020

Week Ending	No. of Samples	Suspended Solids, mg/L			pH		
		Maximum	Minimum	Average	Maximum	Minimum	Average
03/10/20	5*	14	6	10	8.1	7.9	8.0
10/10/20	6*	24	13	18	8.5	8.3	8.4
17/10/20	7	18	9	13	8.6	8.4	8.5
24/10/20	7	21	10	16	8.6	8.4	8.5
31/10/20	7	24	10	16	8.5	8.3	8.4
07/11/20	7	16	9	12	8.4	7.9	8.1
14/11/20	7	21	9	15	8.0	7.8	7.9
21/11/20	7	19	12	16	8.5	7.9	8.2
28/11/20	7	21	9	16	8.3	8.1	8.2
05/12/20	7	19	7	11	8.0	7.8	7.9
12/12/20	7	18	11	14	8.0	7.8	7.9
19/12/20	7	24	8	13	8.0	7.9	7.9
26/12/20	7	17	8	12	8.0	7.9	8.0

Remark :

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

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

Period : October - December
2020

Sampling date		8/10/2020	10/11/2020	10/12/2020
Barium,	ug/L	<150	<150	<150
Mercury,	ug/L	<0.5	<0.5	<0.5
Cadmium,	ug/L	<1.0	<1.0	1.2
Iron,	ug/L	<400	<400	<400
Total Phosphorous,	mg/L	<0.8	<0.8	<0.8
Total Nitrogen,	mg/L	45	84	86
Cyanide,	mg/L	<0.01	0.02	0.02

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