

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 2022**

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 2022)
Date	27 March 2023
Certified by	 (Mr. CHAN Hon Yeung, 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 2022.

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

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

Unit	Period	Remarks
L4	1/10/2022 00:00 to 2/10/2022 06:41	Boiler plant defect rectification
L4	23/11/2022 10:45 to 23/11/2022 21:14	Turbine Reheat Stop Valve 'B' valve stopper to repair
L4	29/11/2022 00:01 to 30/11/2022 23:59	Turbine plant defect rectification
L4	1/12/2022 00:01 to 8/12/2022 05:37	Turbine plant defect rectification
L4	11/12/2022 13:24 to 31/12/2022 23:59	Unit overhaul
L5	1/10/22 04:13 to 11/10/22 10:23	Unit overhaul
L5	26/10/22 06:00 to 26/10/22 17:44	Boiler plant defect rectification
L5	7/12/2022 20:26 to 20/12/2022 14:24	Boiler plant defect rectification

### 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 L4/5 FGD plants retrofit project	EP-248/2006	25/04/2006	-	HK Electric	25/04/2006
Environmental Permit for Unit L2 FGD plant retrofit project	EP-287/2007	02/10/2007	-	HK Electric	02/10/2007
Specified Process Licence issued under APCO	L-7-002(13)	01/01/2021	31/12/2022	HK Electric	01/12/2020
WPCO discharge licence for Ash Lagoon	WT00039618-2021	11/02/2022	31/12/2026	HK Electric	11/02/2022

### 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 no environmental complaint or feedback case regarding the operation of Lamma Power Station.

### 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 2022.

### 1.1 Background

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

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

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

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

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

### 1.2 Project Organisation

The management structure to oversee the Projects includes the following:

- Environmental Protection Department (The Authority);

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

The organization chart for the Operation EM&A programme is shown in [Figure 1.5](#).

### 1.3 Plant Availability during the Reporting Period

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

Unit	Period	Remarks
L4	1/10/2022 00:00 to 2/10/2022 06:41	Boiler plant defect rectification
L4	23/11/2022 10:45 to 23/11/2022 21:14	Turbine Reheat Stop Valve 'B' valve stopper to repair
L4	29/11/2022 00:01 to 30/11/2022 23:59	Turbine plant defect rectification
L4	1/12/2022 00:01 to 8/12/2022 05:37	Turbine plant defect rectification
L4	11/12/2022 13:24 to 31/12/2022 23:59	Unit overhaul
L5	1/10/22 04:13 to 11/10/22 10:23	Unit overhaul
L5	26/10/22 06:00 to 26/10/22 17:44	Boiler plant defect rectification
L5	7/12/2022 20:26 to 20/12/2022 14:24	Boiler plant defect rectification

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

Equipment	Period	Cause	Actions Taken
L5 FGD	10:00 on 01/12/2022 to 11:11 on 01/12/2022	FGD plant was bypassed for maintenance check	EPD (Air Management) was informed on 02/12/2022
L5 FGD	18:31 on 01/12/2022 to 08:30 on 02/12/2022	FGD plant was bypassed for defect rectification	EPD (Air Management) was informed on 05/12/2022

### 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.

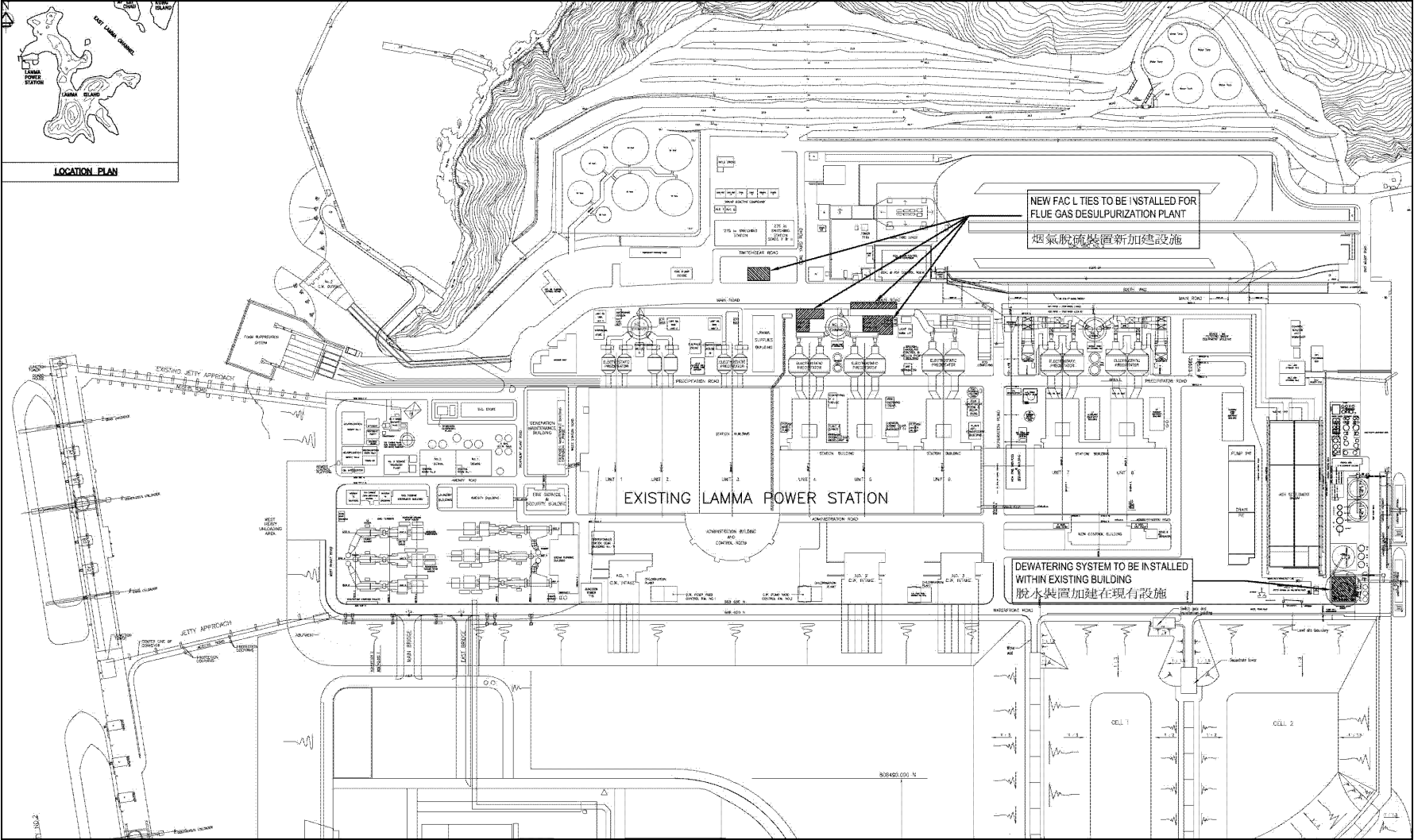


Figure 1.1a Location of New Facilities for L4 & L5 FGD Plants

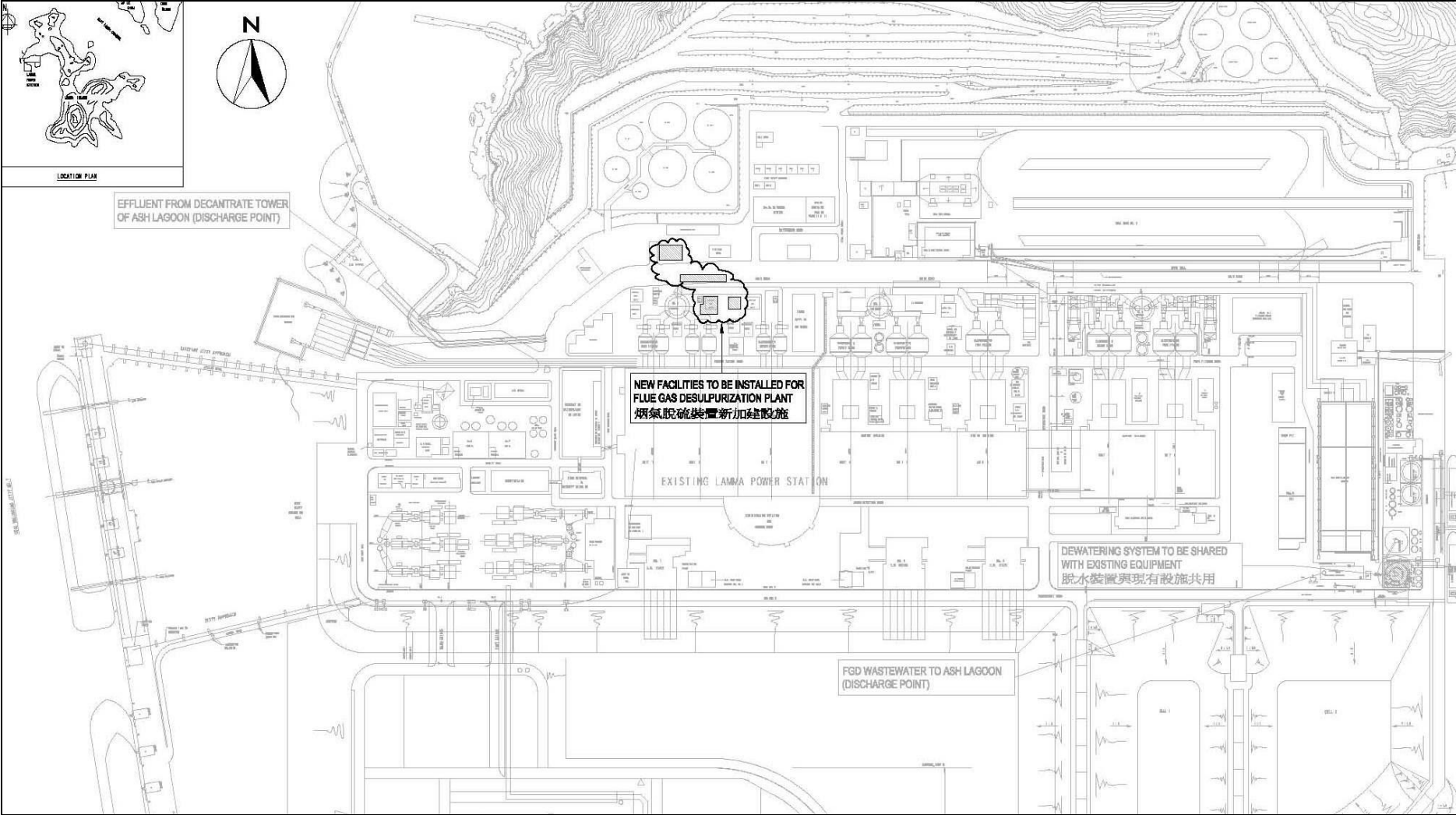


Figure 1.1b Location of New Facilities for L2 FGD Plant

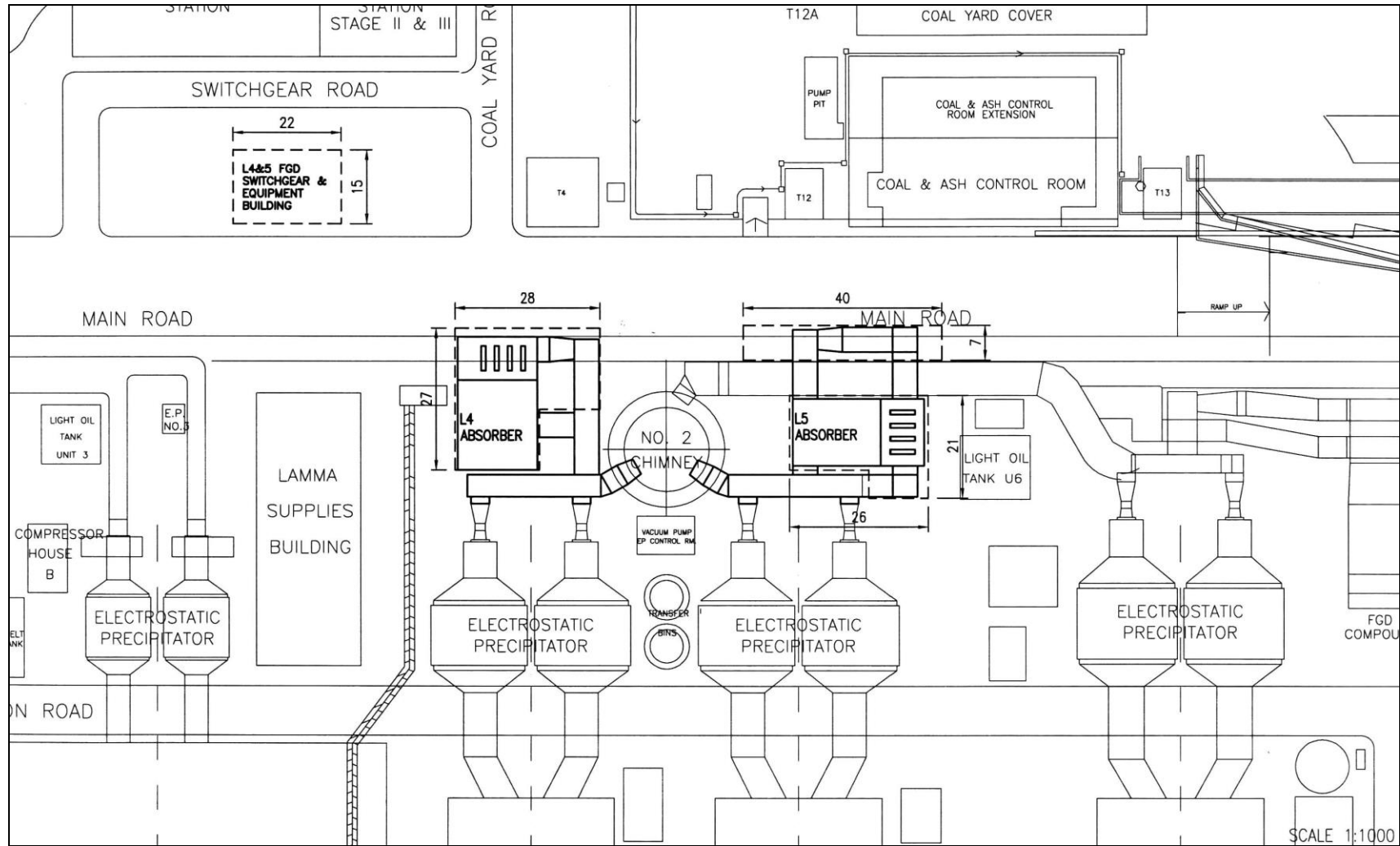


Figure 1.2a General Arrangement of L4 & L5 FGD Plants

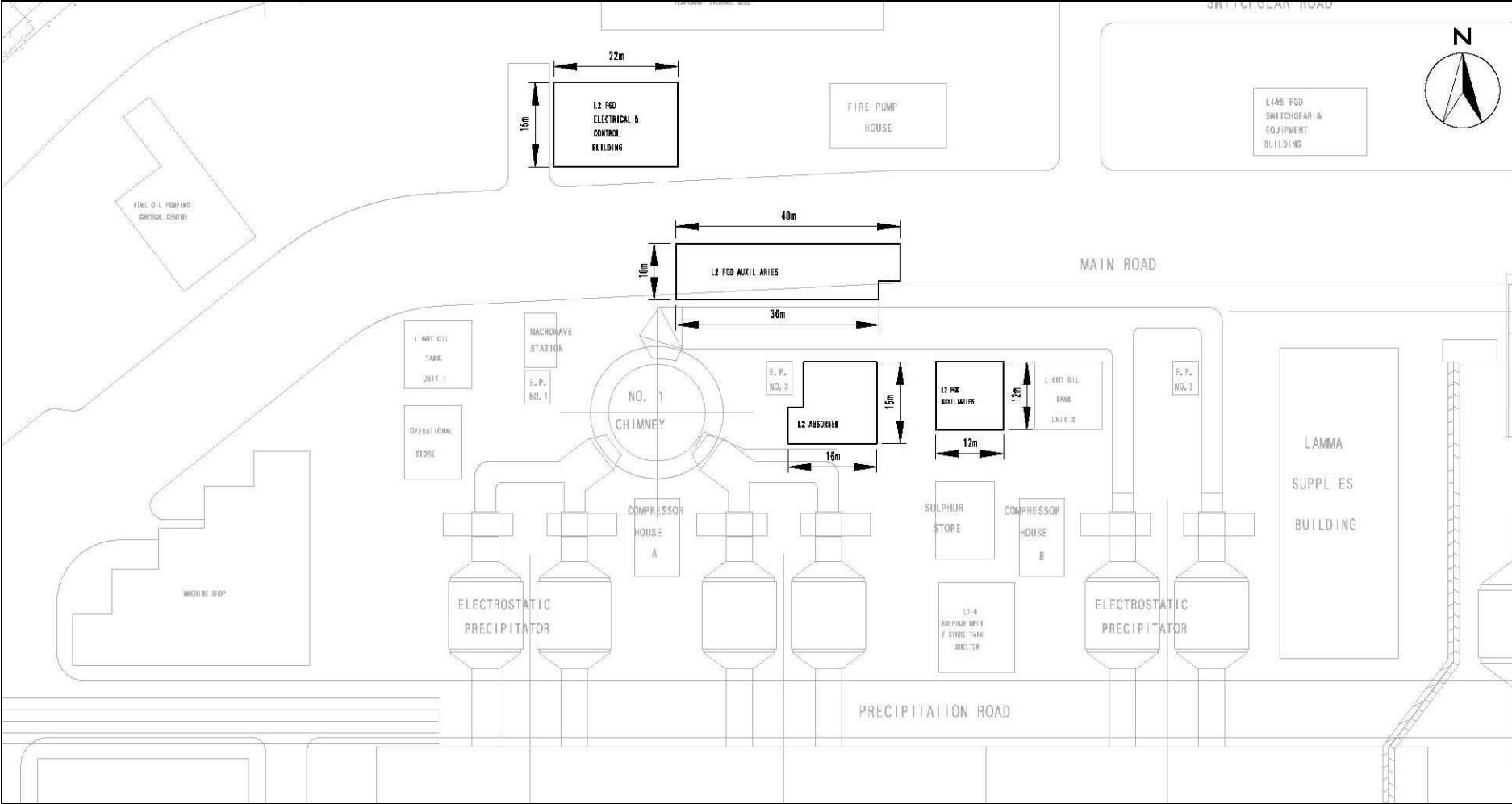


Figure 1.2b General Arrangement of L2 FGD Plant

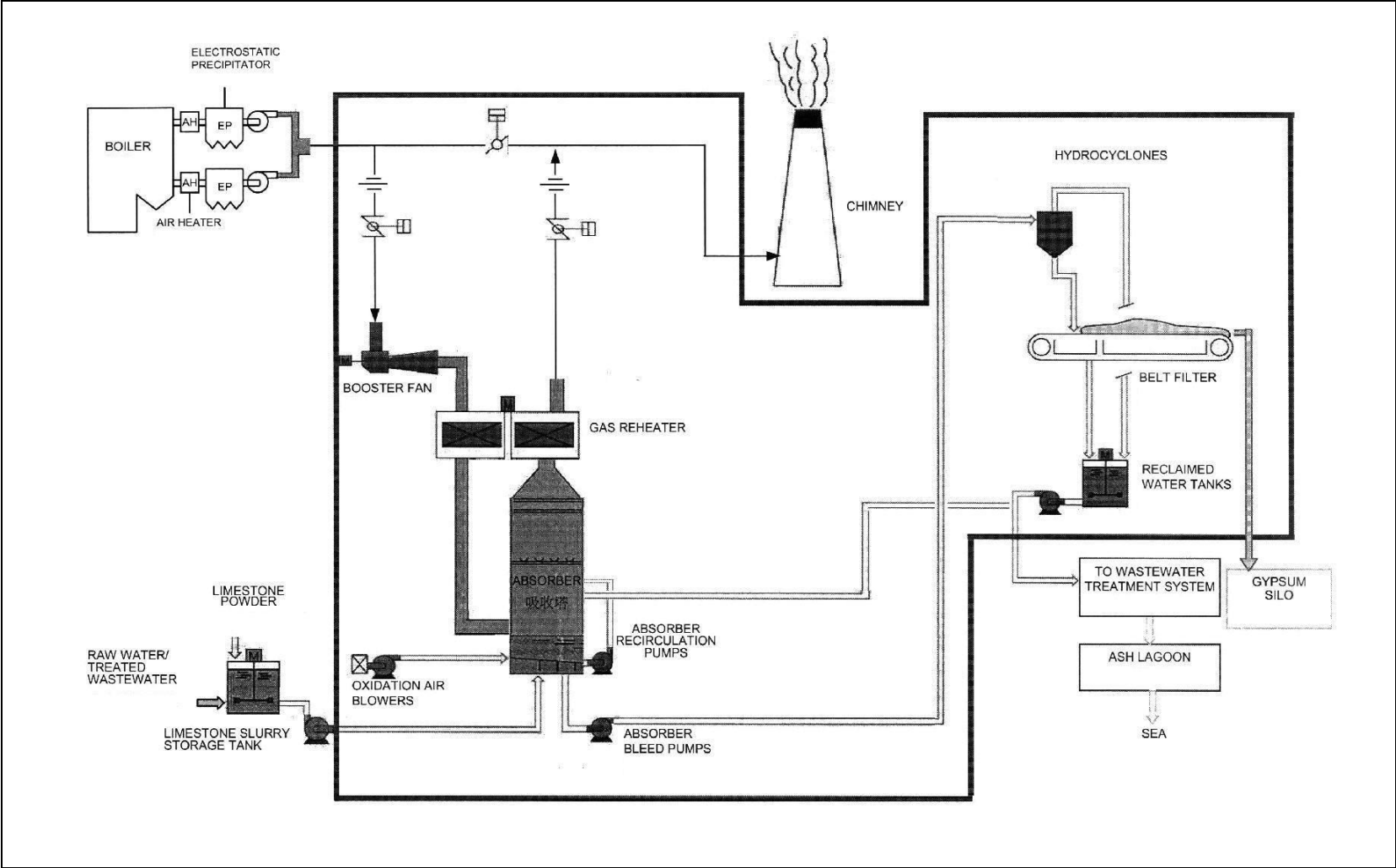


Figure 1.3 Schematic Diagram of the L2, L4 & L5 FGD Plant

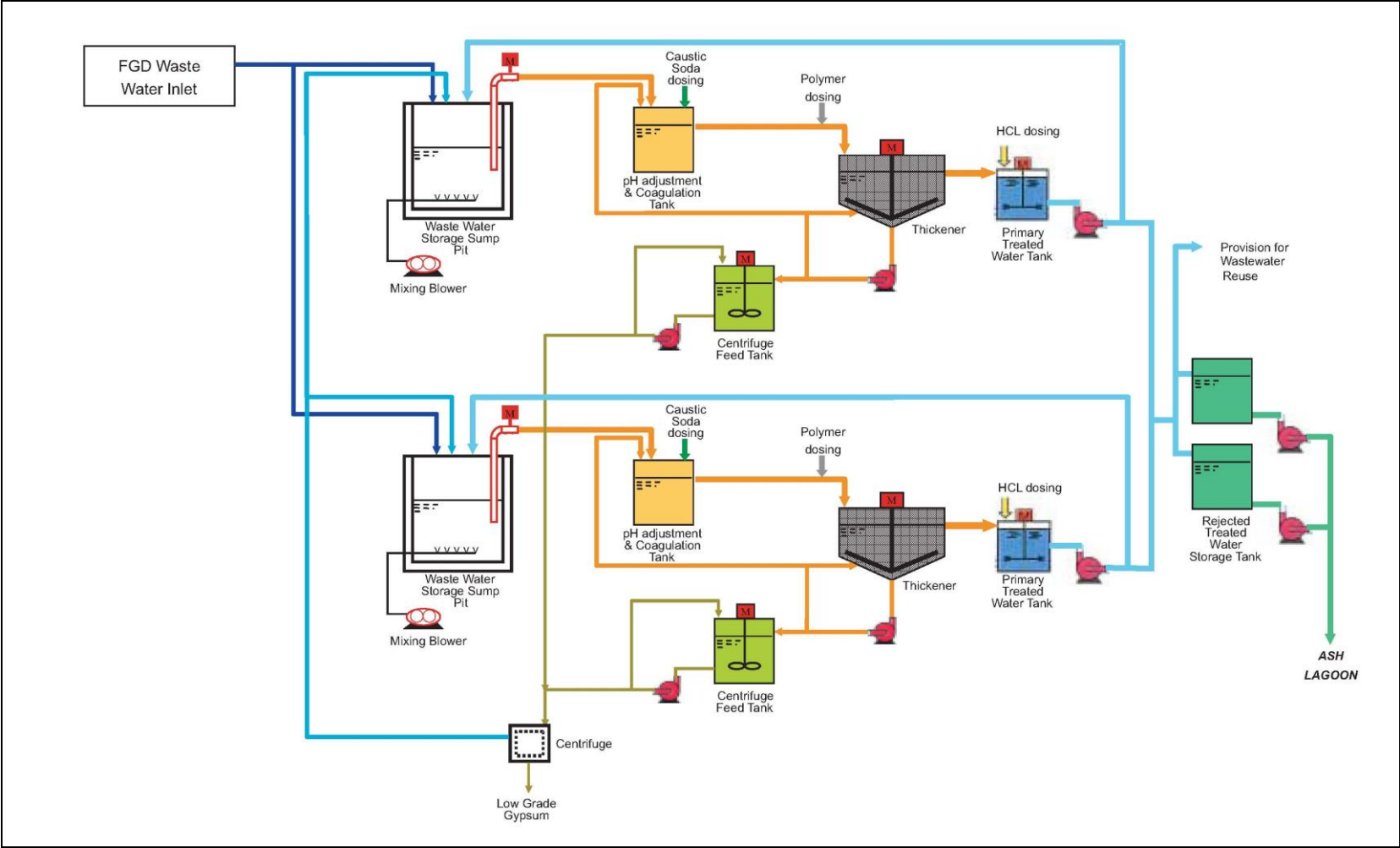


Figure 1.4 Simplified Schematic Diagram of FGD Wastewater Treatment Plant

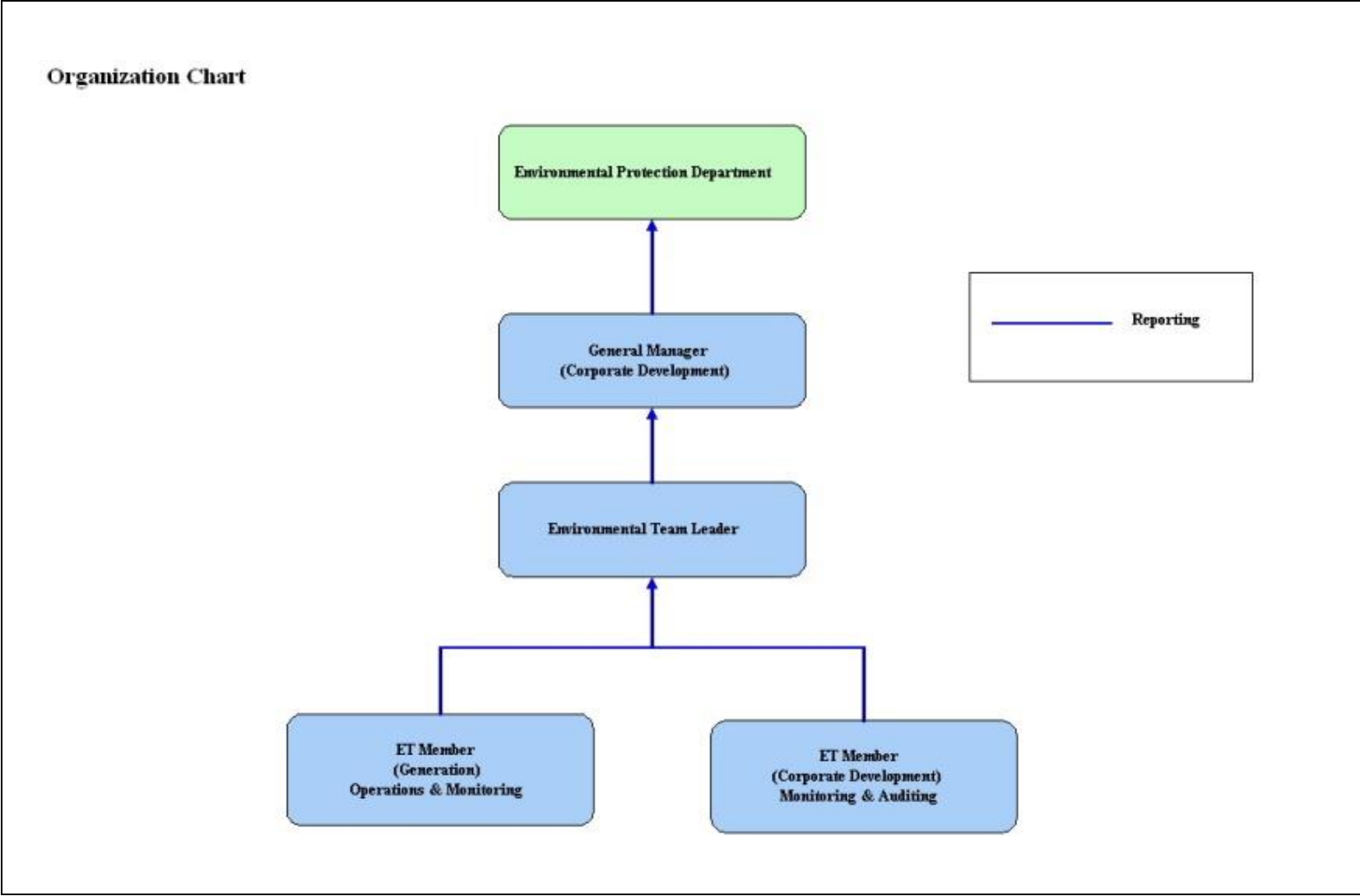


Figure 1.5 Organization Structure at Operational Phase of the Projects



## 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(13). It is agreed with EPD that the results of continuous Respirable Suspended Particulate (RSP) monitoring at Lamma Power Station would be reported. In accordance with the requirements stipulated in the Specified Processes Licence issued under Air Pollution Control Ordinance, various operation parameters as stated in [Table 2.1](#) were monitored. Those parameters have to be checked against the Action/Limit Levels are shown in [Appendix A](#).

Table 2.1 Air Quality Monitoring Parameters and Frequency

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

### 2.2 Summary of Results and Observations

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

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

### 3. WATER QUALITY

#### 3.1 Monitoring Requirements

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

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

Table 3.1 Water Quality Monitoring Parameters and Frequencies

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

#### 3.2 Summary of Results and Observations

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

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

## 4. ENVIRONMENTAL AUDIT

### 4.1 Review of Environmental Monitoring Procedures

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

### 4.2 Assessment of Environmental Monitoring Results

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

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

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

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
Air					
1	Annual analysis of dust particulate emission rates at chimney stacks.	01/10/22-31/12/22	N.A.	0	PM stack sampling tests for L4 and L5 were conducted on 17/06/2022 and 14/06/2022 respectively.
2	Continuous monitoring of opacity, NO <sub>x</sub> , SO <sub>2</sub> and CO <sub>2</sub> in the flue gas at the chimney stacks	01/10/22-31/12/22	0	0	
3	Ambient SO <sub>2</sub> & NO <sub>x</sub> monitoring at the Peak, Queen Mary Hospital, Victoria Road, Chung Hom Kok, Ap Lei Chau and Cheung Chau.	01/10/22-31/12/22	0	0	
Water					
1	pH in WWTP Effluent	01/10/22-31/12/22	0	0	
2	Suspended Solids in WWTP Effluent	01/10/22-31/12/22	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	01/10/22-31/12/22	0	0	
4	Barium in WWTP Effluent	01/10/22-31/12/22	0	0	
5	Mercury in WWTP Effluent	01/10/22-31/12/22	0	0	
6	Cadmium in WWTP Effluent	01/10/22-31/12/22	0	0	
7	Cyanide in WWTP Effluent	01/10/22-31/12/22	0	0	
8	Total Phosphorus in WWTP Effluent	01/10/22-31/12/22	0	0	
9	Total Nitrogen in WWTP Effluent	01/10/22-31/12/22	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 2022	5,956.66 MT	0 MT
November 2022	3,904.59 MT	0 MT
December 2022	1953.50 MT	91.96 MT

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

All permits/licenses obtained as of December 2022 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(13)	01/01/2021	31/12/2022	Valid
WPCO discharge licence for Ash Lagoon	WT00039618-2021	11/02/2022	31/12/2026	Valid

#### 4.4 Implementation Status of Environmental Mitigation Measures

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

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

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

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

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

During the reporting period, there was no environmental complaint or feedback case regarding the operation of Lamma Power Station.

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

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

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
-	-	-

## **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 2022. 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 no environmental complaint or feedback case regarding the operation of Lamma Power Station.

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

The environmental performance of the Projects was generally satisfactory.



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

### A.1 Air

Source of Emissions	Parameters to be Monitored	Frequency	Concentration Not to Be Exceeded	Action	Limit	Proposed Action
Steam boilers L2, L4 and L5	Particulate	once/year	50 mg/Nm <sup>3</sup>	-	50	ET Leader informs Generation Division at action level. Maintenance initiated. Temporary load shift until pollution control equipment repaired and reinstated. Report to EPD.
	Particulate (Opacity)	continuous	40% (bihourly)	35	40	
	SO <sub>2</sub>	continuous	200 mg/Nm <sup>3</sup> (1h)	190	200	
	NO <sub>x</sub> expressed as NO <sub>2</sub> (For L4 and L5 only)	continuous	615 mg/Nm <sup>3</sup> (1h)	585	615	
Chimney emissions	Ambient air SO <sub>2</sub>	Continuous at existing ambient air monitoring stations	800 (µg/m <sup>3</sup> ) (1h)	-	800	ET to review data on post-hoc basis and check for possible power station contribution.
	NO <sub>2</sub>		300 (µg/m <sup>3</sup> ) (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 2022 (October – December)

Date	RSP concentration ( $\mu\text{g}/\text{m}^3$ )	
	Reservoir	East Gate
01/10/2022	27	##
02/10/2022	25	##
03/10/2022	27	14
04/10/2022	32	17
05/10/2022	31	33
06/10/2022	27	31
07/10/2022	32	24
08/10/2022	33	23
09/10/2022	42	34
10/10/2022	51	47
11/10/2022	52	60
12/10/2022	55	47
13/10/2022	53	44
14/10/2022	42	41
15/10/2022	30	47
16/10/2022	41	61
17/10/2022	37	55
18/10/2022	30	49
19/10/2022	23	38
20/10/2022	22	40
21/10/2022	19	37
22/10/2022	24	39
23/10/2022	25	47
24/10/2022	25	43
25/10/2022	22	45
26/10/2022	20	37
27/10/2022	18	32
28/10/2022	23	43
29/10/2022	24	38
30/10/2022	21	32
31/10/2022	36	56

Date	RSP concentration ( $\mu\text{g}/\text{m}^3$ )	
	Reservoir	East Gate
01/11/2022	22	37
02/11/2022	10	16
03/11/2022	5	11
04/11/2022	11	12
05/11/2022	19	30
06/11/2022	18	26
07/11/2022	15	23
08/11/2022	13	19
09/11/2022	16	24
10/11/2022	16	26
11/11/2022	11	12
12/11/2022	13	16
13/11/2022	21	21
14/11/2022	19	21
15/11/2022	22	34
16/11/2022	18	30
17/11/2022	20	27
18/11/2022	21	22
19/11/2022	24	32
20/11/2022	27	37
21/11/2022	15	26
22/11/2022	16	26
23/11/2022	9	13
24/11/2022	10	11
25/11/2022	10	10
26/11/2022	9	8
27/11/2022	23	23
28/11/2022	14	7
29/11/2022	13	5
30/11/2022	16	7

Date	RSP concentration ( $\mu\text{g}/\text{m}^3$ )	
	Reservoir	East Gate
01/12/2022	17	14
02/12/2022	19	16
03/12/2022	20	17
04/12/2022	21	15
05/12/2022	26	22
06/12/2022	24	14
07/12/2022	17	12
08/12/2022	23	15
09/12/2022	35	19
10/12/2022	35	17
11/12/2022	42	20
12/12/2022	44	38
13/12/2022	34	49
14/12/2022	10	14
15/12/2022	9	15
16/12/2022	14	17
17/12/2022	44	43
18/12/2022	42	34
19/12/2022	45	35
20/12/2022	47	32
21/12/2022	29	49
22/12/2022	25	40
23/12/2022	25	44
24/12/2022	26	52
25/12/2022	27	49
26/12/2022	23	38
27/12/2022	24	39
28/12/2022	28	47
29/12/2022	48	81
30/12/2022	35	62
31/12/2022	29	48

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 (%)
1/10/2022	*	*	*
2/10/2022	*	*	*
3/10/2022	*	*	*
4/10/2022	*	*	*
5/10/2022	*	*	*
6/10/2022	*	*	*
7/10/2022	*	*	*
8/10/2022	*	*	*
9/10/2022	*	*	*
10/10/2022	*	*	*
11/10/2022	27	290	12
12/10/2022	22	299	10
13/10/2022	15	292	10
14/10/2022	22	321	10
15/10/2022	22	316	10
16/10/2022	33	299	10
17/10/2022	60	304	10
18/10/2022	29	265	10
19/10/2022	60	214	10
20/10/2022	84	262	10
21/10/2022	31	271	10
22/10/2022	28	312	10
23/10/2022	*	*	*
24/10/2022	7	261	10
25/10/2022	*	*	*
26/10/2022	*	*	*
27/10/2022	*	*	*
28/10/2022	*	*	*
29/10/2022	*	*	*
30/10/2022	38	356	11
31/10/2022	104	267	11

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/11/2022	105	252	10
2/11/2022	60	256	10
3/11/2022	101	445	10
4/11/2022	98	393	10
5/11/2022	79	390	11
6/11/2022	99	428	10
7/11/2022	84	447	10
8/11/2022	93	259	10
9/11/2022	89	256	10
10/11/2022	54	243	10
11/11/2022	62	257	10
12/11/2022	21	301	10
13/11/2022	12	263	10
14/11/2022	41	349	10
15/11/2022	18	235	10
16/11/2022	13	213	10
17/11/2022	18	233	10
18/11/2022	12	220	10
19/11/2022	7	276	10
20/11/2022	9	244	11
21/11/2022	7	204	11
22/11/2022	11	236	10
23/11/2022	3	244	11
24/11/2022	2	252	11
25/11/2022	2	263	11
26/11/2022	8	312	10
27/11/2022	5	233	10
28/11/2022	19	345	10
29/11/2022	88	366	10
30/11/2022	78	335	10

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/12/2022	146	384	10
2/12/2022	95	276	10
3/12/2022	53	313	9
4/12/2022	*	*	*
5/12/2022	102	285	10
6/12/2022	74	328	10
7/12/2022	84	379	10
8/12/2022	*	*	*
9/12/2022	*	*	*
10/12/2022	*	*	*
11/12/2022	*	*	*
12/12/2022	*	*	*
13/12/2022	*	*	*
14/12/2022	*	*	*
15/12/2022	*	*	*
16/12/2022	*	*	*
17/12/2022	*	*	*
18/12/2022	*	*	*
19/12/2022	*	*	*
20/12/2022	24	241	14
21/12/2022	17	217	10
22/12/2022	36	343	11
23/12/2022	24	335	10
24/12/2022	19	349	10
25/12/2022	23	341	11
26/12/2022	23	426	11
27/12/2022	28	360	10
28/12/2022	37	386	10
29/12/2022	31	238	10
30/12/2022	47	275	10
31/12/2022	37	320	10

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

\* - Unit L5 was not on load



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

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/10/2022	*	*	*
2/10/2022	*	*	*
3/10/2022	24	214	8
4/10/2022	21	245	9
5/10/2022	37	226	9
6/10/2022	37	326	8
7/10/2022	55	256	7
8/10/2022	33	189	11
9/10/2022	24	189	9
10/10/2022	42	270	8
11/10/2022	45	325	7
12/10/2022	22	217	7
13/10/2022	19	225	8
14/10/2022	18	203	7
15/10/2022	12	236	7
16/10/2022	*	*	*
17/10/2022	10	162	8
18/10/2022	*	*	*
19/10/2022	*	*	*
20/10/2022	*	*	*
21/10/2022	16	246	8
22/10/2022	*	*	*
23/10/2022	*	*	*
24/10/2022	*	*	*
25/10/2022	*	*	*
26/10/2022	*	*	*
27/10/2022	*	*	*
28/10/2022	*	*	*
29/10/2022	29	446	7
30/10/2022	*	*	*
31/10/2022	*	*	*

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) #	NOx concentration (mg/Nm3) #	Opacity (%)
1/11/2022	*	*	*
2/11/2022	*	*	*
3/11/2022	*	*	*
4/11/2022	*	*	*
5/11/2022	120	245	8
6/11/2022	*	*	*
7/11/2022	*	*	*
8/11/2022	*	*	*
9/11/2022	*	*	*
10/11/2022	*	*	*
11/11/2022	81	259	8
12/11/2022	*	*	*
13/11/2022	*	*	*
14/11/2022	*	*	*
15/11/2022	48	208	7
16/11/2022	51	316	7
17/11/2022	83	250	7
18/11/2022	85	266	7
19/11/2022	58	218	7
20/11/2022	24	331	8
21/11/2022	22	214	8
22/11/2022	22	294	8
23/11/2022	*	*	*
24/11/2022	*	*	*
25/11/2022	*	*	*
26/11/2022	*	*	*
27/11/2022	*	*	*
29/11/2022	*	*	*
30/11/2022	*	*	*

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) <sup>#</sup>	NOx concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/12/2022	*	*	*
2/12/2022	*	*	*
3/12/2022	*	*	*
4/12/2022	*	*	*
5/12/2022	*	*	*
6/12/2022	*	*	*
7/12/2022	*	*	*
8/12/2022	67	317	9
9/12/2022	74	269	8
10/12/2022	55	378	8
11/12/2022	63	297	8
12/12/2022	*	*	*
13/12/2022	*	*	*
14/12/2022	*	*	*
15/12/2022	*	*	*
16/12/2022	*	*	*
17/12/2022	*	*	*
18/12/2022	*	*	*
19/12/2022	*	*	*
20/12/2022	*	*	*
21/12/2022	*	*	*
22/12/2022	*	*	*
23/12/2022	*	*	*
24/12/2022	*	*	*
25/12/2022	*	*	*
26/12/2022	*	*	*
27/12/2022	*	*	*
28/12/2022	*	*	*
29/12/2022	*	*	*
30/12/2022	*	*	*
31/12/2022	*	*	*

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

\* - Unit L4 was not on load.

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

Date	Daily Maximum	
	SO <sub>2</sub> concentration (mg/Nm <sup>3</sup> ) <sup>#</sup>	Opacity (%)
1/10/2022	*	*
2/10/2022	*	*
3/10/2022	*	*
4/10/2022	*	*
5/10/2022	*	*
6/10/2022	*	*
7/10/2022	*	*
8/10/2022	*	*
9/10/2022	*	*
10/10/2022	*	*
11/10/2022	*	*
12/10/2022	*	*
13/10/2022	*	*
14/10/2022	*	*
15/10/2022	*	*
16/10/2022	*	*
17/10/2022	*	*
18/10/2022	*	*
19/10/2022	*	*
20/10/2022	*	*
21/10/2022	*	*
22/10/2022	*	*
23/10/2022	*	*
24/10/2022	*	*
25/10/2022	*	*
26/10/2022	*	*
27/10/2022	*	*
28/10/2022	*	*
29/10/2022	*	*
30/10/2022	*	*
31/10/2022	*	*

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) #	Opacity (%)
1/11/2022	*	*
2/11/2022	*	*
3/11/2022	*	*
4/11/2022	*	*
5/11/2022	*	*
6/11/2022	*	*
7/11/2022	*	*
8/11/2022	*	*
9/11/2022	*	*
10/11/2022	*	*
11/11/2022	*	*
12/11/2022	*	*
13/11/2022	*	*
14/11/2022	*	*
15/11/2022	*	*
16/11/2022	*	*
17/11/2022	*	*
18/11/2022	*	*
19/11/2022	*	*
20/11/2022	*	*
21/11/2022	*	*
22/11/2022	*	*
23/11/2022	*	*
24/11/2022	*	*
25/11/2022	*	*
26/11/2022	*	*
27/11/2022	*	*
28/11/2022	*	*
29/11/2022	*	*
30/11/2022	*	*

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) <sup>#</sup>	Opacity (%)
1/12/2022	*	*
2/12/2022	*	*
3/12/2022	*	*
4/12/2022	*	*
5/12/2022	*	*
6/12/2022	*	*
7/12/2022	*	*
8/12/2022	*	*
9/12/2022	*	*
10/12/2022	*	*
11/12/2022	*	*
12/12/2022	*	*
13/12/2022	*	*
14/12/2022	*	*
15/12/2022	*	*
16/12/2022	*	*
17/12/2022	*	*
18/12/2022	*	*
19/12/2022	*	*
20/12/2022	*	*
21/12/2022	*	*
22/12/2022	*	*
23/12/2022	*	*
24/12/2022	*	*
25/12/2022	*	*
26/12/2022	*	*
27/12/2022	*	*
28/12/2022	*	*
29/12/2022	*	*
30/12/2022	*	*
31/12/2022	*	*

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

\* - Unit L2 was not on load.

#### **B.2.4 Summary of Annual Stack Particulate Sampling**

No stack particulate samplings for Units L4 & L5 were carried out in the reporting period.

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



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

STATION : VICTORIA PEAK  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

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

YEAR : 2022  
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	1	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	1	5	1	0	0	0	0	1
4	0	1	0	0	0	0	0	3	5	5	4	4	8	1	3	7	10	11	11	1	2	0	0	1	3
5	1	0	0	0	0	0	0	0	5	3	2	7	0	0	1	0	0	1	1	0	0	0	0	0	1
6	0	0	0	0	0	0	1	1	5	2	2	3	7	1	0	3	2	10	5	1	0	0	0	1	2
7	0	0	0	0	0	0	0	1	5	6	5	3	3	2	2	1	9	17	8	3	0	0	0	6	3
8	3	3	1	1	1	0	2	4	5	8	8	4	0	1	2	5	4	8	6	1	0	0	0	0	3
9	0	0	0	1	0	0	3	8	6	6	8	7	5	9	12	13	28	17	24	22	13	8	6	7	8
10	4	1	1	0	0	0	4	9	16	16	12	15	11	13	15	15	18	30	29	23	14	13	11	8	12
11	8	5	5	3	3	5	9	27	34	38	35	25	15	13	18	17	7	7	4	13	21	11	10	10	14
12	9	M	5	7	4	5	11	24	34	39	26	13	11	12	16	16	14	23	20	11	2	2	8	10	14
13	7	2	3	4	5	6	9	20	22	16	M	16	18	26	21	17	23	31	19	18	9	3	1	2	13
14	1	0	0	0	0	0	2	7	15	19	11	13	9	11	16	16	26	13	16	1	0	1	1	2	8
15	3	1	0	1	2	5	10	19	22	31	27	25	22	15	11	13	17	17	23	15	8	7	23	16	14
16	17	11	7	1	0	0	5	6	9	12	11	7	7	12	20	21	17	17	14	8	7	9	6	5	10
17	3	1	0	0	0	0	3	7	13	12	11	13	10	15	9	14	18	20	14	8	5	5	6	5	8
18	3	2	0	0	0	0	3	9	14	19	21	18	16	18	18	19	24	19	18	14	12	11	12	7	12
19	3	1	0	0	2	4	6	12	12	17	14	16	6	7	10	14	16	16	15	10	6	4	4	1	8
20	0	0	0	0	0	0	0	2	4	5	7	6	5	5	6	6	6	5	9	6	0	0	0	3	3
21	0	0	0	0	0	0	2	3	9	10	9	15	16	16	16	16	24	19	11	5	1	0	4	3	7
22	1	0	0	0	0	0	4	15	29	32	34	28	13	11	13	24	29	40	42	25	19	0	5	18	16
23	9	2	5	9	5	3	5	21	24	21	15	12	8	8	12	11	3	2	1	1	0	0	0	3	8
24	1	0	0	0	0	0	1	7	5	5	6	6	3	6	7	4	4	2	3	2	0	0	0	1	3
25	0	0	0	0	0	1	0	2	3	5	6	4	1	2	2	2	1	1	0	0	0	0	0	1	1
26	2	1	0	0	0	0	0	2	7	7	3	7	5	5	8	17	6	10	7	2	1	0	1	2	4
27	0	0	1	0	0	0	2	7	10	8	4	6	4	4	5	3	4	4	7	6	11	4	5	3	4
28	0	0	0	0	0	0	3	11	20	31	25	24	16	16	15	15	8	9	8	7	0	1	1	2	9
29	0	0	1	2	5	6	11	26	24	27	20	11	7	9	19	13	18	28	38	29	19	13	11	15	15
30	10	8	6	5	4	5	6	7	5	8	10	8	7	9	9	11	16	20	22	18	16	11	10	9	10
31	4	1	0	0	0	0	3	8	15	17	18	17	11	10	14	15	16	15	14	9	7	6	5	5	9

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
7	5	7	5	18	24	29	34	0	-	42	0	-	16	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:OCTOBER

YEAR :2022

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

MONTHLY STATISTICS:

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

STATION : CHUNG HOM KOK ZONE SUBSTATION  
POLLUTANT : NITROGEN DIOXIDE

MONTH:OCTOBER

YEAR :2022

UNIT :MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----				STN GEOM	PERCENT	NO. OF TIMES
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL	
4	4	5	4	11	14	18	19	0	-	39	1	-	13	2	100	0	

NOTES:

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

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

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

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

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

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

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : NITROGEN DIOXIDE

MONTH:OCTOBER

YEAR :2022  
UNIT :MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
3	0	0	0	0	0	0	0	2	4	6	4	4	3	4	4	4	9	10	6	5	1	2	5	2	3	3
4	1	1	2	2	0	1	1	2	3	6	14	7	2	3	2	4	9	13	7	5	9	9	5	5	5	5
5	3	5	2	1	0	0	3	7	10	9	6	5	5	5	5	5	7	7	5	4	3	1	1	1	4	4
6	0	0	0	0	0	0	1	2	5	7	8	6	6	7	7	8	8	12	11	6	3	3	2	1	4	4
7	1	1	0	0	0	1	2	3	5	7	7	7	8	9	10	11	12	10	10	6	5	2	2	3	5	5
8	2	2	2	2	1	1	2	3	3	3	2	4	6	5	7	8	10	10	9	7	4	2	1	2	4	4
9	1	0	0	1	1	1	3	4	1	0	0	4	7	11	13	10	16	11	10	8	3	0	0	0	4	4
10	0	0	1	1	1	1	0	0	0	0	0	0	1	6	8	8	10	11	14	3	0	0	0	0	3	3
11	0	2	2	2	1	2	3	3	2	2	3	9	10	12	12	7	10	15	17	16	17	8	4	7	7	7
12	4	M	4	3	3	3	7	10	12	14	11	8	5	8	8	8	8	12	11	15	6	5	5	5	8	8
13	4	2	2	2	3	3	7	12	13	9	7	7	6	12	11	8	7	9	20	11	8	5	4	4	7	7
14	3	2	1	1	1	1	3	5	6	6	9	6	7	14	12	10	19	8	15	7	5	4	4	3	6	6
15	3	2	1	1	2	3	6	7	9	12	15	13	14	13	9	8	9	10	11	9	8	8	14	10	8	8
16	8	5	3	2	2	3	4	7	7	7	9	9	9	8	9	10	9	10	11	9	6	6	4	4	7	7
17	3	3	2	2	3	2	4	6	7	9	9	9	9	7	5	6	6	8	6	5	4	3	2	3	5	5
18	2	2	1	1	1	1	2	4	5	6	6	7	6	7	8	6	7	6	6	5	4	3	2	4	4	4
19	3	2	1	1	2	2	5	8	11	3	4	8	8	8	8	8	8	8	8	6	2	0	0	0	5	5
20	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	2	3	3	1	1	0	0	0	0	1	1
21	0	0	0	0	0	0	0	0	1	2	M	8	9	6	4	5	5	16	21	9	5	1	2	2	4	4
22	0	0	0	0	0	0	1	5	12	14	19	12	5	12	39	38	45	60	32	18	9	9	9	9	15	15
23	7	0	5	11	12	6	8	13	14	11	5	4	4	18	20	20	15	5	2	1	1	0	0	1	8	8
24	0	0	0	0	0	0	0	2	3	4	4	6	2	4	6	6	7	6	4	2	1	1	0	0	2	2
25	0	0	0	0	0	0	1	3	5	5	5	4	3	4	3	3	4	2	0	0	0	0	0	0	2	2
26	0	M	0	0	0	0	0	1	5	3	4	10	14	9	12	19	13	10	6	3	2	1	1	1	5	5
27	0	0	0	0	0	0	0	1	4	3	4	3	2	10	12	16	7	10	8	6	6	3	1	2	4	4
28	0	0	0	0	0	0	0	2	5	7	6	7	7	8	19	19	15	13	8	4	1	0	0	1	5	5
29	0	0	0	0	0	1	2	4	6	6	7	3	2	15	29	34	30	32	30	33	10	4	3	3	11	11
30	7	8	11	9	9	9	10	9	9	3	6	10	10	14	12	13	16	16	15	17	16	13	12	12	11	11
31	9	8	7	6	7	8	11	17	22	19	18	22	25	20	19	17	18	19	20	15	12	11	10	10	15	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
5	4	6	4	12	16	20	31	0	-	60	0	-	15	2	100	0

NOTES:

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

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

STATION : POK FU LAM  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

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

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	1	1	0	1	1	1	0	0	0	0	0	0	0	1	1	1	2	1	2	1	1	2	1	1
2	1	M	2	1	1	1	1	0	0	0	0	0	0	0	1	0	0	1	5	5	2	3	4	2	1
3	2	1	2	1	1	1	3	6	8	6	5	7	9	10	3	8	7	8	15	12	6	21	18	6	7
4	3	9	7	6	8	4	7	9	5	7	23	8	5	9	4	11	16	15	10	8	12	12	25	5	10
5	5	4	1	1	1	2	6	11	32	11	7	8	3	3	4	3	4	5	4	3	3	2	1	2	5
6	1	1	1	1	1	2	5	10	11	8	9	7	8	4	5	8	10	20	19	13	7	5	3	4	7
7	2	2	2	2	2	2	5	8	11	10	7	6	6	8	10	11	18	26	23	12	8	4	14	9	9
8	6	6	7	5	5	4	6	6	7	10	9	9	7	7	7	9	11	12	10	8	4	4	4	3	7
9	4	5	3	5	4	5	7	9	9	6	9	10	14	14	25	18	36	28	23	18	17	13	12	15	13
10	10	9	7	6	5	7	14	19	23	22	21	22	22	21	23	31	32	32	35	21	20	15	15	12	19
11	11	11	10	10	10	12	27	31	38	31	32	23	21	27	30	30	36	27	20	25	21	14	12	12	22
12	16	18	10	12	11	10	11	22	35	35	30	16	13	19	17	19	26	34	37	27	12	13	14	58	21
13	37	8	10	14	13	13	26	41	39	30	24	21	19	29	28	39	35	41	27	14	9	10	7	7	23
14	6	4	3	3	3	4	6	15	16	18	14	12	11	21	32	39	41	24	26	10	5	6	7	10	14
15	7	4	5	8	7	11	14	23	30	38	27	22	23	18	13	17	22	31	29	24	22	26	38	29	20
16	21	M	10	6	8	10	18	24	20	24	25	18	21	17	18	23	20	26	33	20	19	15	13	9	18
17	8	7	6	9	9	8	14	22	23	25	24	26	26	24	17	19	22	21	16	14	12	10	10	8	16
18	7	6	5	5	5	6	10	19	19	16	18	17	15	17	18	20	23	20	12	9	10	10	10	14	13
19	14	9	8	7	9	10	17	28	32	27	16	13	9	10	12	13	11	15	15	14	12	10	8	6	14
20	4	4	3	3	3	3	4	7	10	9	M	9	9	12	14	17	20	19	14	12	12	9	9	7	9
21	6	4	4	4	4	4	7	11	10	22	18	30	33	26	24	27	37	45	39	22	14	17	29	29	19
22	18	7	6	4	4	8	26	59	53	53	48	33	14	19	40	43	66	103	110	23	24	14	32	41	35
23	25	13	12	15	19	19	32	56	55	34	19	23	17	14	15	15	10	9	8	8	7	6	8	7	19
24	6	5	4	3	3	5	8	13	17	16	15	14	9	13	12	11	13	12	16	13	7	5	6	5	10
25	4	3	4	4	4	7	9	12	14	12	10	9	7	8	9	9	9	9	5	4	6	5	4	4	7
26	7	4	2	2	2	3	6	12	15	14	11	12	13	14	19	30	19	20	19	14	11	11	11	7	12
27	6	3	3	3	3	4	7	12	15	15	12	10	12	15	15	17	26	19	32	37	23	13	14	6	13
28	5	4	3	2	3	4	9	22	39	38	27	24	25	31	37	35	25	21	26	19	9	9	8	8	18
29	7	6	19	10	13	17	19	34	40	33	37	22	14	24	36	44	37	41	43	30	17	15	17	17	25
30	18	M	17	14	12	14	15	15	13	12	14	11	12	15	16	16	19	22	20	25	24	20	17	15	16
31	11	9	14	14	13	12	20	32	38	24	24	36	32	29	27	25	27	27	24	18	14	13	14	10	21

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----				STN GEOM	PERCENT	NO. OF TIMES
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL	
10	12	14	12	30	37	41	53	0	-	110	1	-	35	2	99	0	

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



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

STATION : AP LEI CHAU  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

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

STATION : AP LEI CHAU  
POLLUTANT : NITROGEN DIOXIDE

MONTH:OCTOBER

YEAR :2022

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	3	0	0	0	0	1
4	1	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	5	4	11	9	5	2	2
5	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
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	7
8	2	0	0	0	0	0	1	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	3	5	2	0	0	5	12	1	0	7	13	15	22	24	8	4	4	6	5
10	4	2	1	0	0	0	3	7	11	10	8	13	16	18	20	22	26	25	24	16	9	11	10	14	11
11	12	10	9	7	7	8	19	25	30	33	28	17	8	30	9	5	5	6	9	19	17	16	22	21	16
12	18	15	9	9	8	10	14	20	22	27	22	11	10	16	33	26	20	29	21	11	11	16	16	20	17
13	16	9	8	10	11	13	17	21	19	13	16	22	22	27	22	6	7	7	7	10	4	3	3	3	12
14	1	2	2	2	2	3	5	10	14	13	7	9	6	17	14	10	12	27	13	4	4	4	2	7	8
15	6	3	3	3	3	7	13	17	19	22	21	29	25	19	13	20	20	30	28	30	18	13	20	20	17
16	20	14	7	6	5	5	10	13	12	12	13	12	12	12	18	17	16	15	13	8	10	11	8	6	11
17	4	2	1	2	2	3	6	13	15	16	14	11	12	13	12	13	14	14	10	9	7	6	5	7	9
18	4	4	3	2	2	3	6	12	15	15	15	16	16	19	21	19	20	16	12	9	8	6	6	4	11
19	2	3	2	2	3	6	8	13	15	10	6	2	1	2	4	3	4	5	4	1	1	1	2	1	4
20	0	0	0	0	0	0	1	2	3	4	4	5	3	3	3	4	6	7	3	1	1	0	1	1	2
21	0	0	0	0	0	0	0	2	1	2	4	2	0	0	0	0	2	2	1	1	9	2	8	8	2
22	3	0	0	0	0	1	14	52	46	42	34	16	M	4	7	6	20	20	35	53	12	3	10	32	18
23	20	5	4	9	4	2	7	10	17	18	11	10	3	5	4	2	2	2	2	1	0	0	0	3	6
24	1	0	0	0	0	2	3	6	3	3	3	3	2	2	4	1	1	1	2	1	1	1	0	1	2
25	0	0	0	0	1	2	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	3	3	1	1	2	1	1	0	0	0	0	1	0	0	0	0	0	0	1
27	0	0	0	0	0	0	1	5	2	1	1	0	0	1	0	0	0	1	1	3	8	2	0	1	1
28	0	0	0	0	0	0	3	13	17	22	20	10	11	7	5	4	4	1	3	5	1	1	0	3	5
29	1	0	0	1	4	7	13	17	18	18	13	4	2	12	7	18	27	22	7	10	3	2	5	16	9
30	15	9	6	5	4	6	8	6	7	7	6	7	6	8	7	8	11	12	16	14	12	10	8	7	9
31	4	2	1	0	0	1	4	9	10	10	13	11	10	12	12	12	12	13	11	10	6	6	6	6	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
6	2	6	2	17	22	28	33	0	-	53	0	-	18	3	100	0

NOTES:

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

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

STATION : CHEUNG CHAU  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2022  
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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1
4	2	2	2	2	1	2	2	2	3	3	2	2	2	2	1	2	2	2	1	1	1	2	2	4	2
5	1	1	1	2	2	2	2	1	1	2	1	1	1	2	2	2	1	1	1	1	1	1	1	3	1
6	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	4	1
7	1	1	1	1	1	1	1	1	2	3	3	2	2	1	2	2	1	1	1	1	1	1	1	3	1
8	2	2	2	1	2	2	1	1	1	2	1	1	1	2	2	1	1	1	1	1	1	1	1	3	1
9	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	3	2
10	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	2	2	3	1
11	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	3	2
12	2	2	1	2	3	3	3	3	3	3	3	3	2	2	2	2	2	2	1	1	2	2	1	3	2
13	2	1	1	1	1	2	2	3	3	3	3	3	3	3	2	2	3	2	2	2	2	1	1	3	2
14	1	1	1	1	1	1	1	2	2	3	3	3	3	3	3	3	2	2	2	2	2	1	1	3	2
15	1	1	2	2	2	1	3	4	4	4	4	3	3	3	3	3	3	2	2	2	2	2	3	5	3
16	3	3	3	3	3	3	3	3	3	3	3	2	3	2	3	3	3	3	3	3	3	2	2	4	3
17	3	3	3	3	3	2	2	2	2	2	2	2	2	3	3	3	2	2	3	3	3	3	3	5	3
18	3	3	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	2	1
19	1	2	2	2	2	2	2	3	3	3	3	2	2	3	2	2	2	2	2	1	1	2	1	3	2
20	2	2	2	2	1	1	1	1	1	1	2	2	1	2	1	2	2	2	1	1	2	1	2	4	2
21	3	2	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1	1	3	2
22	2	1	1	1	1	1	1	2	2	3	3	3	3	4	4	3	3	3	3	3	3	2	2	4	2
23	2	2	3	2	2	2	2	2	2	3	5	5	5	4	3	2	2	1	1	1	1	2	2	3	2
24	2	1	1	1	1	1	1	2	2	3	3	3	3	2	2	2	2	1	2	1	1	1	2	3	2
25	2	2	2	2	3	4	3	3	3	3	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2
26	1	1	1	1	1	1	1	1	2	2	2	1	1	1	2	2	2	1	1	1	1	1	1	3	1
27	1	1	1	1	2	1	1	1	1	1	1	2	2	1	1	2	2	1	1	1	1	1	2	3	1
28	3	3	1	1	1	3	1	2	2	4	5	4	4	3	4	5	4	2	2	3	2	2	1	3	3
29	3	2	2	2	2	2	2	3	3	3	3	3	2	3	2	3	4	2	2	2	2	2	2	3	2
30	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	4	2
31	3	3	3	2	2	2	2	3	2	3	3	3	2	2	2	2	3	3	3	3	3	3	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	2	2	3	3	4	4	0	-	5	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:OCTOBER

STATION : CHEUNG CHAU  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	4	3	3	3	5	1	1	1	1	2	1	1	2	1	2	6	3	7	2	2	1	0	0	4	2
2	1	1	4	5	2	2	2	4	2	2	2	1	2	2	2	2	2	0	1	1	0	0	2	4	2
3	1	0	2	2	2	1	1	1	4	13	3	2	1	2	2	3	2	5	3	3	4	5	2	4	3
4	2	3	7	8	3	4	15	15	14	21	14	9	5	5	10	9	13	6	1	1	5	6	6	5	8
5	12	9	4	13	5	2	2	2	4	4	4	4	3	6	12	6	3	2	0	0	1	0	0	1	4
6	0	0	0	0	0	2	2	2	3	3	3	3	5	2	2	2	2	0	1	1	1	2	1	4	2
7	2	1	1	0	1	1	1	2	3	5	4	6	5	2	3	4	4	1	0	1	1	1	5	11	3
8	10	10	8	8	11	8	8	9	9	8	7	8	7	5	7	5	3	2	2	2	0	1	2	1	6
9	0	3	3	2	8	10	15	12	10	14	9	8	13	6	6	5	6	3	5	9	4	5	5	5	7
10	4	4	4	2	3	4	4	4	5	8	5	6	7	7	8	9	10	10	12	12	6	5	7	6	6
11	5	4	3	3	3	4	5	8	7	10	11	11	11	19	15	7	5	2	3	3	4	10	9	16	7
12	10	M	6	5	7	7	13	12	13	18	13	12	13	22	14	17	15	6	4	6	4	2	2	15	10
13	15	7	6	6	6	6	15	14	12	17	15	19	28	22	12	8	11	6	3	6	4	2	2	7	10
14	2	1	2	1	1	0	2	6	14	26	32	27	21	17	7	6	7	12	15	8	2	1	1	6	9
15	4	7	17	15	13	15	10	13	10	35	45	33	31	27	32	47	55	48	40	46	43	40	32	27	29
16	23	17	15	12	13	16	18	22	16	23	18	18	23	27	38	35	29	26	40	47	39	17	12	9	23
17	7	12	10	8	7	10	14	14	15	16	14	16	17	18	16	18	22	16	13	11	12	13	13	10	13
18	6	5	5	3	2	1	3	3	4	9	7	7	6	6	6	8	7	6	5	7	5	3	3	3	5
19	4	3	3	3	3	4	8	10	10	15	13	10	3	4	3	4	4	4	2	2	3	5	4	4	5
20	3	2	3	1	0	0	2	4	2	4	5	3	2	8	10	11	9	3	5	5	8	3	4	7	4
21	7	2	3	1	3	1	2	3	4	10	9	5	3	5	4	5	3	3	1	1	1	1	1	4	3
22	5	2	2	6	8	11	18	18	12	17	19	34	34	38	28	22	23	8	9	17	14	10	13	21	16
23	23	16	12	7	8	6	9	11	12	15	32	32	35	15	11	7	3	2	2	3	4	6	6	3	12
24	1	3	3	1	1	1	2	4	5	7	7	3	3	5	6	3	2	3	7	3	2	3	4	1	3
25	2	4	3	4	4	6	5	6	6	5	5	4	3	3	4	2	1	0	2	0	0	1	0	1	3
26	1	M	1	2	2	1	2	3	5	5	5	4	3	3	3	4	2	0	2	1	2	2	2	3	3
27	1	2	1	1	4	0	3	9	6	4	3	8	7	1	2	4	5	1	2	0	0	3	5	3	3
28	6	5	1	0	1	3	2	9	11	11	14	18	21	9	21	32	23	5	3	7	3	4	4	4	9
29	6	2	5	9	9	8	11	18	15	13	7	22	18	7	7	21	30	11	7	4	6	6	7	8	11
30	6	4	4	3	2	2	4	5	4	8	8	10	15	21	27	20	19	20	16	16	12	10	9	10	11
31	7	7	7	8	8	8	10	17	11	17	11	17	16	15	19	14	15	15	14	11	12	12	10	7	12

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
5	5	8	5	17	23	35	40	0	-	55	2	-	29	3	100	0

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

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

STATION : VICTORIA PEAK  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2022  
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	10	9	9	9	10	10	10	10	9	9	9	10	9	9	9	8	8	8	8	9	9	9	9	9
2	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
3	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
4	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
5	9	9	9	9	10	10	10	10	10	10	10	M	10	10	10	10	10	10	10	10	10	10	10	10	10
6	10	10	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12
7	12	12	12	13	12	13	13	13	14	14	15	15	15	15	15	14	14	14	14	14	14	14	14	14	9
8	7	7	7	7	7	6	6	6	6	6	M	M	7	7	6	M	M	7	7	7	7	6	6	7	7
9	6	7	7	7	7	7	7	7	7	7	7	8	8	8	8	9	9	8	7	7	7	10	7	7	7
10	7	7	7	6	7	7	7	7	7	7	8	8	8	8	8	9	9	8	9	9	9	8	8	8	8
11	7	7	7	7	7	7	7	7	7	7	7	7	8	7	7	7	8	7	8	8	7	7	7	7	7
12	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	7	7	7	7	7	7	7	7	7
13	7	7	7	7	7	7	7	7	8	8	8	9	9	9	9	9	8	8	8	7	8	7	7	8	8
14	8	8	8	7	8	8	8	8	8	8	8	8	9	9	9	9	9	8	8	8	8	8	8	9	8
15	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	8	8	8	8	9	9	9	9	8
16	9	9	9	9	9	9	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	10	9
17	9	9	9	9	9	9	9	9	9	10	10	9	9	10	9	9	9	9	9	9	9	9	9	10	9
18	9	9	9	9	9	9	9	9	9	10	9	10	10	10	10	10	10	10	9	9	9	9	10	10	9
19	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	12	12	12	11	11	11	11	11	11	11
20	11	11	11	11	11	11	11	11	11	11	12	12	12	13	13	12	12	12	13	13	12	12	12	12	12
21	12	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	12	12	12	12	12	12
22	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
23	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
24	14	14	14	14	13	15	15	15	15	15	15	15	15	15	15	16	15	15	15	15	15	15	15	15	15
25	15	15	15	15	15	15	15	15	15	15	15	14	14	14	14	14	14	14	14	14	14	14	14	14	14
26	14	14	14	14	14	13	13	13	13	14	14	16	14	14	14	14	14	14	14	14	14	14	14	14	14
27	14	14	15	15	15	14	14	14	14	14	14	14	14	14	15	14	14	15	15	15	15	15	15	15	14
28	15	15	15	15	15	15	16	14	11	11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	12
29	10	10	10	10	10	10	10	10	11	12	11	12	11	11	12	12	12	12	12	12	12	12	12	11	11
30	11	11	11	11	12	12	11	12	12	13	14	13	12	12	12	12	13	12	13	13	13	13	13	14	12

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
10	10	10	10	14	15	15	15	6	-	16	7	-	15	1	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 : NITROGEN DIOXIDE

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	3	1	0	0	0	0	4	8	15	16	15	14	14	12	16	14	13	14	10	7	5	3	2	3	8
2	1	0	0	0	0	0	1	7	12	12	9	7	5	4	5	2	0	0	0	0	0	0	0	1	3
3	0	0	0	0	0	0	0	0	4	11	3	6	9	7	7	8	8	6	4	1	1	1	0	2	3
4	0	0	0	0	0	0	0	0	5	8	10	7	5	7	9	5	6	2	1	2	0	0	0	0	3
5	0	0	0	0	0	0	1	7	14	15	14	M	16	16	21	19	17	20	27	24	17	14	10	12	11
6	8	6	7	4	3	2	4	8	11	12	11	11	8	3	10	13	22	31	29	29	26	24	17	15	13
7	8	18	5	4	2	4	9	24	31	32	40	28	26	26	29	33	34	27	26	25	17	12	9	4	20
8	2	0	0	0	0	1	4	10	17	17	M	M	14	14	11	M	M	23	28	25	15	11	9	8	10
9	5	M	3	3	3	5	11	14	18	14	12	13	7	12	19	29	40	43	37	19	14	15	8	6	15
10	4	3	3	1	1	3	5	7	9	9	19	19	16	14	17	25	32	34	54	76	57	16	7	6	18
11	3	4	3	2	1	1	4	8	10	14	13	9	7	6	8	14	21	33	46	48	29	22	10	5	13
12	2	2	1	2	3	3	3	3	10	12	14	8	12	14	15	26	15	13	32	27	9	13	12	14	11
13	2	5	5	7	6	6	6	11	11	14	16	16	12	7	7	8	9	9	8	6	4	5	4	6	8
14	3	2	1	1	1	2	4	6	10	14	13	13	12	12	15	21	28	25	31	18	12	16	14	7	12
15	4	4	4	4	6	7	10	11	10	19	22	15	9	8	13	24	25	27	26	8	9	10	7	6	12
16	6	7	5	5	3	3	4	5	10	17	13	7	5	9	9	11	11	11	7	6	7	4	5	8	7
17	4	5	11	3	3	4	7	10	10	21	15	19	21	19	21	24	23	36	33	22	5	4	2	6	14
18	9	5	2	2	3	4	6	6	8	16	11	16	18	18	14	7	11	7	8	10	11	9	9	6	9
19	4	5	6	4	4	3	3	6	9	11	13	15	18	21	30	38	48	76	68	35	33	30	21	21	22
20	18	11	5	4	5	7	9	14	16	21	18	16	14	14	8	7	6	9	7	9	8	8	7	7	10
21	5	4	3	3	3	2	5	12	14	17	14	15	10	13	12	9	13	7	6	4	2	3	3	4	8
22	2	2	2	2	2	3	3	5	8	8	9	9	7	12	14	12	9	8	7	5	4	14	5	5	7
23	4	M	3	3	2	3	3	8	18	27	19	17	15	15	13	18	15	16	16	10	9	6	7	7	11
24	5	4	4	3	3	3	3	4	10	9	9	10	14	12	17	15	12	14	15	14	10	8	9	8	9
25	6	6	5	4	5	4	4	6	12	13	13	18	18	17	30	40	31	27	41	48	28	23	11	12	18
26	14	21	13	6	3	3	5	10	18	20	32	41	30	21	27	25	23	18	10	5	5	3	3	6	15
27	6	6	4	4	4	3	4	4	5	6	6	4	6	5	7	8	7	5	5	4	4	5	4	6	5
28	3	2	2	2	2	3	4	6	7	8	4	4	4	11	7	10	6	6	6	7	10	5	4	3	5
29	2	5	1	2	2	1	3	4	12	16	10	10	6	4	9	8	7	8	3	2	0	0	1	3	5
30	1	0	0	4	2	6	8	13	23	23	27	14	13	11	15	20	25	24	20	25	18	22	26	26	15

MONTHLY STATISTICS:

ARITH-----PERCENTILES-----											RANGE-----				STN GEOM	PERCENT	NO. OF TIMES
GEOM	MEAN	MEDIAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL			
	8	8	11	8	24	30	40	48	0	-	76	3	-	22	2	99	0

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

MONTH: NOVEMBER

YEAR : 2022

UNIT : MICROGRAMS/CUBIC METER

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

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	3	4	4	0	-	5	0	-	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

STATION : CHUNG HOM KOK ZONE SUBSTATION  
POLLUTANT : NITROGEN DIOXIDE

MONTH: NOVEMBER

YEAR : 2022

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	5	4	4	4	4	5	7	8	10	8	9	9	11	9	7	6	6	6	4	4	3	3	2	6
2	2	2	1	1	0	0	1	4	8	13	12	9	8	7	5	3	3	3	3	3	2	2	2	2	4
3	3	4	5	4	5	4	5	9	9	11	6	5	5	7	5	5	5	2	3	4	4	5	5	5	5
4	3	4	4	2	1	2	2	4	4	4	3	5	5	3	3	3	4	3	3	2	3	2	2	3	3
5	3	2	2	2	2	3	3	4	6	10	12	12	11	11	12	12	13	12	15	15	15	13	11	11	9
6	8	7	7	6	6	6	6	8	7	6	5	5	6	6	6	7	10	19	20	10	11	10	7	4	8
7	4	5	4	3	4	3	4	8	12	18	12	36	32	33	39	54	31	19	19	17	14	8	5	3	16
8	2	1	2	2	2	2	3	5	8	6	5	3	4	3	3	12	10	18	19	12	8	6	2	4	6
9	3	M	4	4	4	5	7	9	8	4	3	4	3	1	3	5	6	4	5	5	5	3	2	3	4
10	4	3	2	1	1	2	5	10	4	4	4	2	2	2	2	3	7	8	13	4	4	7	9	3	4
11	2	2	1	2	0	0	3	0	0	3	2	2	0	0	0	1	2	3	3	6	6	4	4	5	2
12	3	2	3	3	4	2	3	2	2	3	4	3	2	3	3	4	7	6	10	10	4	8	8	9	5
13	8	6	8	8	10	9	9	10	11	11	10	11	9	6	5	5	6	6	5	4	6	3	3	3	7
14	1	2	3	3	3	3	3	6	4	4	4	4	4	4	4	6	6	12	9	7	6	7	6	5	5
15	6	7	5	6	6	7	7	7	5	6	4	4	3	2	2	8	5	10	8	12	6	14	12	10	7
16	8	7	8	6	6	5	6	7	8	7	6	6	6	4	7	7	9	6	6	8	8	8	6	7	7
17	6	6	5	5	6	7	10	11	10	9	8	10	9	9	10	12	13	12	9	10	18	13	11	8	9
18	8	12	8	5	4	5	7	8	6	5	4	4	3	5	8	8	7	8	6	4	6	5	4	5	6
19	5	6	6	5	5	5	6	5	7	7	7	7	7	8	10	11	12	17	16	20	9	5	7	9	8
20	9	9	8	7	7	7	8	10	12	13	12	13	9	8	8	9	9	9	10	8	7	7	6	6	9
21	5	6	6	5	4	4	4	6	6	8	7	7	6	6	7	M	10	7	7	6	5	5	6	5	6
22	5	5	6	7	6	6	6	7	7	7	7	7	6	6	7	6	7	7	8	7	5	6	8	6	6
23	5	M	5	5	5	8	8	9	10	11	9	9	7	7	7	8	10	13	10	7	7	5	5	6	8
24	6	6	6	6	5	5	5	6	7	7	7	7	7	6	7	8	7	7	7	7	6	6	7	7	6
25	7	8	8	7	8	6	6	6	8	7	7	7	6	6	8	13	15	15	9	9	15	11	7	7	9
26	8	10	9	7	7	5	6	6	7	11	17	17	14	11	14	9	7	6	6	6	6	7	7	7	9
27	10	7	7	7	6	6	7	7	11	9	10	13	10	7	7	8	9	10	8	7	9	8	10	9	8
28	8	7	6	5	6	5	7	8	10	12	9	7	7	12	11	15	30	19	24	16	17	18	9	6	11
29	7	7	6	7	6	4	7	6	5	7	5	5	4	3	4	5	8	14	21	12	9	12	17	15	8
30	7	5	3	4	5	3	2	5	7	7	11	9	11	10	12	13	17	23	20	17	14	13	13	14	10

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
6	6	7	6	12	15	19	24	0	-	54	2	-	16	2	100	0

NOTES:

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



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

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

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

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

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

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	9	7	5	5	5	6	9	13	17	17	16	16	15	16	15	16	15	14	13	11	11	8	8	9	12
2	7	5	4	4	4	3	5	10	14	15	13	13	11	12	11	9	8	7	6	6	6	5	4	8	8
3	7	8	8	8	9	8	11	12	16	8	6	14	25	31	M	M	76	66	44	19	13	12	10	9	19
4	7	6	5	5	5	4	6	8	12	15	13	12	15	27	20	25	30	18	10	9	8	6	0	5	11
5	1	1	4	5	6	5	0	0	2	4	6	5	7	14	23	22	23	26	28	9	5	3	1	2	8
6	1	3	10	7	5	1	2	1	1	3	1	1	11	13	12	20	25	23	27	24	22	26	26	26	12
7	21	25	20	12	12	13	16	26	18	10	11	29	33	36	38	54	65	61	41	35	26	22	16	13	27
8	8	7	5	4	5	7	17	25	28	11	6	20	22	23	31	42	35	45	40	27	21	13	11	10	19
9	8	M	8	5	6	8	13	21	33	11	11	32	31	50	45	34	49	33	42	27	25	22	15	11	23
10	7	7	6	5	4	5	9	19	23	14	32	43	32	28	23	27	47	47	67	70	59	47	19	13	27
11	9	7	7	5	4	5	10	14	22	37	47	38	43	30	49	56	45	61	55	54	49	31	27	21	30
12	13	12	19	6	5	7	8	9	28	35	33	33	29	24	28	38	34	24	26	35	32	25	28	33	24
13	41	41	36	42	44	39	37	32	51	59	55	30	34	38	28	16	14	11	11	22	23	19	17	11	31
14	8	6	5	5	5	5	8	14	21	19	30	39	42	46	47	44	78	65	55	31	20	20	17	12	27
15	9	9	9	8	8	10	17	30	32	41	47	50	36	28	54	73	75	40	39	31	52	52	32	14	33
16	12	9	9	7	7	8	11	16	22	35	36	30	37	46	45	45	58	43	29	16	13	11	12	11	24
17	10	8	9	6	7	7	13	22	39	32	43	56	42	25	37	29	44	47	43	31	21	11	8	14	25
18	13	15	9	6	6	7	12	14	30	27	25	29	35	26	50	65	62	44	27	15	15	12	12	11	24
19	8	8	9	7	6	6	13	12	19	24	27	42	23	29	23	26	35	35	48	43	69	63	44	43	28
20	29	16	11	8	8	8	12	14	13	20	24	23	25	19	15	13	12	13	13	11	10	11	11	9	15
21	8	7	6	6	6	6	9	17	18	20	18	21	15	17	14	18	28	13	9	8	7	7	7	7	12
22	6	5	5	4	5	5	6	7	12	18	15	15	18	25	31	29	24	24	17	10	8	10	8	9	13
23	7	M	8	6	5	6	10	15	21	21	21	16	18	20	28	32	26	29	23	11	8	7	8	7	15
24	6	7	7	5	5	5	7	8	17	23	31	36	32	30	25	19	19	19	27	14	12	9	10	10	16
25	7	7	7	6	6	5	8	14	28	22	21	28	27	27	26	28	47	50	48	47	45	30	24	27	24
26	26	35	20	9	6	6	6	9	14	19	27	34	32	29	42	32	34	36	22	14	9	8	8	9	20
27	7	8	7	7	6	6	7	8	9	10	11	14	12	11	13	12	12	13	10	9	8	8	8	10	9
28	7	5	4	5	6	11	18	28	34	36	31	26	26	32	29	33	18	18	18	21	19	23	12	10	20
29	6	6	4	10	6	4	14	18	20	22	19	16	15	13	14	12	15	34	24	23	23	19	12	13	15
30	10	5	3	5	6	13	17	20	22	31	34	28	23	30	31	29	20	17	17	9	2	3	2	3	16

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
15	15	20	15	42	48	60	66	0	-	78	8	-	33	2	99	0

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

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

STATION : POK FU LAM  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2022  
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	14	11	10	13	14	16	15	15	14	16	11	12	12	13	10	12	11	12	10	12	12	11	9	12
2	9	12	12	12	12	12	11	11	11	8	12	9	13	8	12	8	13	10	13	11	12	12	12	8	11
3	11	11	10	9	10	10	11	11	10	10	12	9	6	12	13	11	9	13	9	12	9	9	8	10	10
4	10	10	7	12	9	11	11	9	12	9	8	8	13	11	7	13	10	11	10	10	10	9	10	14	10
5	9	12	11	7	11	12	9	11	10	10	11	14	10	9	14	9	8	13	8	11	12	9	13	12	11
6	11	9	12	7	11	10	11	10	10	10	11	12	13	13	12	13	10	12	9	12	12	9	12	8	11
7	13	11	12	11	10	10	12	11	10	12	14	10	13	11	11	14	10	15	10	12	9	12	8	11	11
8	13	9	14	10	11	10	9	10	12	9	12	12	9	10	14	10	8	12	11	10	13	8	12	16	11
9	9	12	10	13	10	12	11	11	9	8	9	11	14	14	14	16	15	16	12	9	13	9	11	15	12
10	12	9	13	10	12	9	13	10	9	9	16	12	13	13	17	16	16	14	14	14	14	15	14	11	13
11	9	14	12	9	13	12	9	11	7	9	7	12	9	15	10	9	10	13	13	10	11	13	13	13	11
12	13	9	9	13	8	10	14	10	11	10	8	12	10	11	11	11	13	14	9	7	12	13	9	14	11
13	16	12	14	13	14	13	13	16	11	19	17	14	11	15	14	14	14	14	13	14	13	8	10	16	14
14	8	12	11	13	10	13	9	12	10	8	11	11	15	11	9	11	15	14	11	8	13	14	10	10	11
15	10	15	14	10	11	11	9	14	14	10	14	11	14	10	12	14	15	15	14	14	11	9	10	10	12
16	13	12	10	14	10	13	9	9	11	9	11	9	12	13	13	10	9	7	11	13	10	9	13	16	11
17	14	10	13	10	11	12	9	13	8	10	12	10	13	12	11	12	9	10	8	8	8	9	13	11	11
18	14	11	11	14	8	13	10	11	11	10	9	12	12	9	13	11	10	9	13	13	9	8	10	13	11
19	10	12	14	14	12	12	9	11	8	8	12	13	11	13	15	12	11	10	10	12	16	15	14	17	12
20	11	14	17	13	10	14	10	8	11	12	10	15	12	14	11	12	13	13	14	11	8	8	9	13	12
21	13	9	8	13	14	11	8	10	10	9	9	10	9	10	9	10	10	8	14	9	11	10	11	9	10
22	12	10	8	9	8	11	13	9	12	10	14	12	11	11	9	11	13	14	11	8	13	12	9	10	11
23	9	11	13	8	9	13	12	9	12	14	11	9	9	11	12	14	12	9	12	12	9	12	10	13	11
24	10	11	13	8	13	9	10	11	9	13	7	11	12	13	M	3	3	1	2	2	0	2	1	3	7
25	1	1	1	2	1	2	2	1	1	M	2	1	2	3	1	2	2	2	4	2	2	2	2	4	2
26	1	2	2	2	1	1	2	1	1	1	0	3	3	0	2	3	3	1	2	1	2	1	2	2	2
27	3	1	1	3	0	2	1	2	1	1	3	0	1	4	1	1	4	1	3	0	2	1	0	4	2
28	1	2	3	0	2	3	1	3	2	0	2	0	5	3	3	1	2	3	0	2	4	1	0	4	2
29	2	0	1	3	1	2	3	1	2	9	1	4	1	2	2	1	4	1	1	2	3	1	0	5	2
30	3	1	1	3	1	2	3	1	2	3	4	3	1	2	3	2	3	1	2	2	1	3	2	3	2

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
8	10	9	10	14	14	16	16	0	-	19	2	-	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: NOVEMBER

STATION : POK FU LAM  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2022  
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	7	5	6	6	9	16	24	29	31	28	22	20	25	25	22	26	25	21	16	13	12	12	10	18
2	8	6	5	5	4	7	15	22	23	24	19	21	18	17	14	10	9	10	10	9	7	6	5	4	12
3	5	6	6	7	7	5	7	8	9	9	8	10	14	11	10	15	24	30	22	9	10	9	7	7	11
4	6	6	6	5	5	4	6	9	11	12	10	12	10	12	14	14	12	10	12	12	8	7	8	6	9
5	6	4	4	4	4	5	7	17	21	29	39	34	19	19	22	22	29	40	47	41	32	21	20	16	21
6	17	27	19	16	12	20	27	21	31	30	16	10	11	7	16	28	30	33	34	27	29	30	30	36	23
7	38	42	27	17	22	16	27	41	45	49	49	35	33	40	49	64	63	57	28	37	29	17	14	7	35
8	6	5	7	4	4	14	20	27	31	17	15	13	13	19	29	46	39	63	21	21	16	12	12	7	19
9	6	4	4	4	6	7	14	35	43	15	11	11	11	17	36	58	54	62	53	31	20	14	16	9	23
10	6	5	4	2	3	4	8	17	16	20	33	18	27	23	31	36	50	64	97	91	77	50	12	9	29
11	6	6	5	3	2	3	6	9	12	11	8	8	7	9	13	19	39	80	92	58	42	35	22	12	21
12	6	4	6	4	5	5	6	7	18	18	17	10	14	11	17	28	24	25	38	43	52	54	66	66	23
13	68	61	49	63	66	60	64	53	48	52	40	19	22	35	24	14	8	12	27	34	49	9	36	9	38
14	6	4	3	3	3	4	7	11	15	14	16	14	12	13	18	26	36	39	36	26	18	15	16	13	15
15	10	40	10	6	7	8	13	32	49	43	29	18	11	12	17	24	31	44	71	61	69	48	35	13	29
16	12	7	6	5	5	4	6	10	18	20	13	9	8	14	13	16	18	20	17	10	8	6	7	8	11
17	6	6	11	4	5	5	10	20	25	25	21	19	17	19	37	42	29	41	18	40	16	12	20	22	20
18	33	32	16	5	5	7	8	12	14	20	12	14	16	16	19	10	12	11	15	13	6	5	7	7	13
19	5	5	5	4	3	3	6	7	9	10	11	14	19	30	23	34	41	43	66	59	101	94	93	65	31
20	53	82	49	13	8	7	12	11	18	18	22	40	25	13	11	10	8	12	11	12	8	7	6	6	19
21	4	5	4	4	4	3	5	6	9	11	9	11	8	9	12	13	13	11	10	6	3	4	4	4	7
22	3	3	3	2	2	3	4	7	9	10	9	9	7	11	14	13	10	11	9	7	6	14	5	5	7
23	5	4	4	3	3	3	5	19	29	28	20	26	33	39	18	15	16	20	16	8	8	6	7	7	14
24	6	5	5	4	4	4	5	7	11	11	10	10	8	12	M	23	26	28	25	17	10	10	17	14	12
25	8	7	7	6	6	6	9	14	25	M	19	23	36	30	51	49	61	83	84	75	59	63	51	30	35
26	33	46	26	11	13	15	15	15	23	27	47	47	42	38	49	52	34	33	25	12	9	6	7	7	26
27	7	M	6	5	4	4	6	6	6	7	7	4	4	4	5	6	5	5	4	4	3	3	3	5	5
28	2	2	3	3	5	8	9	20	25	18	12	9	14	15	12	17	10	18	18	19	10	7	5	4	11
29	3	6	5	8	6	18	25	30	32	34	26	18	10	12	12	16	24	18	22	22	35	39	23	44	20
30	30	44	27	18	21	25	31	36	42	47	37	16	14	13	18	20	27	30	37	35	34	33	31	30	29

MONTHLY STATISTICS:

GEOM		ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
14	14	20	14	43	57	67	83	2	-	101	5	-	38	2	100	0

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

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

STATION : AP LEI CHAU  
 POLLUTANT : SULPHUR DIOXIDE

YEAR : 2022  
 UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

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

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

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

STATION : AP LEI CHAU  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	2	1	1	2	3	6	11	13	15	15	12	14	19	18	13	13	10	8	6	4	4	4	1	8
2	0	0	0	0	0	0	0	4	10	12	12	9	7	7	4	1	0	0	0	0	0	0	0	0	3
3	0	0	0	0	0	0	0	0	0	2	2	3	5	1	0	2	5	6	3	0	0	0	0	0	1
4	1	0	0	0	0	0	0	0	1	2	2	1	4	2	2	0	0	0	0	0	0	0	0	0	1
5	0	0	0	0	0	0	1	5	8	13	13	14	M	10	13	12	15	18	19	18	14	11	13	12	9
6	10	7	4	2	2	3	4	8	10	8	5	3	2	1	7	8	18	24	28	27	22	21	13	13	10
7	16	14	5	5	2	4	13	21	32	30	33	20	26	29	34	50	51	26	20	22	14	7	5	2	20
8	2	0	0	0	0	2	5	11	14	7	6	6	6	11	11	25	21	20	12	13	7	3	1	2	8
9	0	0	0	0	0	2	7	11	7	1	0	0	1	0	0	2	5	10	18	7	16	5	1	1	4
10	0	0	0	0	0	0	1	3	0	1	M	M	0	10	M	M	46	30	84	53	17	9	5	2	13
11	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	24	74	72	32	12	8	11	10
12	12	5	5	4	5	5	5	4	5	7	9	9	7	8	11	10	10	12	33	26	25	20	17	24	12
13	25	38	35	45	47	51	39	36	37	31	28	15	20	17	6	7	6	6	8	8	9	7	9	5	22
14	3	3	3	3	3	4	4	6	6	7	M	6	5	6	6	8	12	19	14	11	11	10	11	9	7
15	9	M	7	8	8	10	13	12	13	14	12	13	8	10	9	14	19	23	24	30	36	50	25	9	16
16	8	7	7	6	6	6	7	10	11	9	8	6	5	5	5	5	5	6	7	7	10	7	6	9	7
17	7	5	6	6	6	7	10	13	11	11	10	13	12	13	13	12	19	16	13	10	11	8	8	7	10
18	9	13	6	2	2	7	14	9	9	10	6	7	5	9	6	4	4	5	4	5	5	5	5	6	7
19	6	7	5	3	3	3	4	5	7	8	6	7	7	9	7	9	20	49	33	68	50	27	14	10	15
20	4	8	3	3	2	4	6	8	10	8	5	7	7	6	3	3	3	4	4	3	5	5	2	3	5
21	2	2	1	1	2	1	3	5	5	6	7	6	4	6	6	4	5	4	3	2	1	2	3	3	4
22	2	1	1	1	1	3	4	4	6	6	6	6	5	7	9	8	8	5	5	5	3	3	4	4	4
23	2	1	1	1	0	3	5	13	10	14	10	7	7	9	7	8	8	10	8	4	3	1	1	3	6
24	2	2	3	1	1	1	2	3	7	5	5	6	6	9	9	7	9	8	6	4	4	4	9	8	5
25	6	4	5	4	6	5	6	7	11	11	11	11	9	10	15	45	42	49	52	58	38	22	22	20	20
26	20	13	9	4	3	4	6	8	12	19	27	28	20	20	30	9	9	10	10	3	1	1	2	4	11
27	4	3	2	3	1	2	3	3	4	4	4	4	5	4	2	3	4	4	2	1	1	1	2	1	3
28	0	0	0	0	1	0	0	2	7	2	4	4	10	23	11	11	5	6	19	12	5	1	0	2	5
29	2	M	5	3	3	2	16	14	8	7	8	0	0	0	0	0	1	5	16	5	4	2	10	9	5
30	7	2	2	9	17	12	20	17	23	23	18	5	6	5	8	10	17	23	23	23	18	15	18	22	14

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
7	6	9	6	20	30	47	51	0	-	84	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  
MONTH: NOVEMBER

STATION : CHEUNG CHAU  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
2	2	2	2	3	3	4	4	1	-	36	1	-	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 : CHEUNG CHAU  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	5	4	3	5	5	7	5	6	10	5	6	13	10	11	11	13	12	10	8	7	7	6	8	8
2	4	3	3	2	2	3	6	8	12	17	16	17	16	14	13	14	15	14	14	14	15	12	9	7	10
3	5	6	6	6	5	4	3	3	2	3	2	2	3	4	4	3	3	8	6	8	4	5	4	3	4
4	3	3	4	4	2	3	3	3	3	3	3	4	3	4	2	7	3	5	2	1	7	8	10	4	4
5	4	3	2	1	1	2	2	9	11	17	11	9	13	17	15	13	18	18	20	17	13	15	14	13	11
6	9	6	5	6	7	11	8	8	9	11	14	14	16	3	8	14	14	19	15	11	11	10	13	9	10
7	6	5	5	4	3	5	8	9	8	12	10	15	12	13	14	16	19	19	20	22	20	20	16	16	12
8	5	5	2	3	2	8	10	11	11	15	13	15	14	17	17	20	26	27	23	7	6	6	3	5	11
9	3	M	2	1	8	10	6	16	12	13	8	4	3	2	2	1	3	4	5	6	8	12	13	12	7
10	4	4	2	2	2	2	2	2	7	10	10	8	5	7	14	6	2	8	7	9	8	8	7	6	6
11	2	7	5	2	4	3	2	3	6	8	5	6	3	2	2	1	2	1	5	7	12	26	22	24	7
12	22	16	13	14	8	3	3	2	4	5	8	5	5	4	3	2	2	4	6	4	11	5	5	21	7
13	18	28	29	27	19	25	24	19	16	16	10	4	4	5	12	9	2	5	4	2	1	1	0	4	12
14	2	4	5	6	2	4	6	6	8	6	5	6	4	2	1	1	1	2	4	4	3	3	3	9	4
15	4	3	4	3	4	6	8	3	4	4	10	2	1	2	1	1	4	6	7	8	26	37	13	5	7
16	4	9	4	4	4	2	3	5	6	4	5	2	1	3	3	3	1	2	2	5	2	3	2	4	3
17	3	1	2	2	1	1	2	3	6	4	10	11	13	23	21	17	13	6	5	4	4	3	3	5	7
18	7	9	7	2	2	8	11	11	6	12	5	5	5	7	6	5	1	2	2	3	7	1	3	6	6
19	1	2	2	2	1	4	5	10	9	8	3	1	2	2	4	3	6	6	7	13	13	6	2	10	5
20	6	3	3	2	3	5	11	14	11	12	11	8	5	3	5	2	2	2	2	4	3	6	3	2	5
21	1	1	2	1	1	1	1	4	5	5	5	5	6	M	6	4	4	8	10	6	1	0	0	3	3
22	4	1	1	3	2	4	5	7	7	8	9	9	6	9	12	14	13	11	9	9	5	5	6	5	7
23	4	M	2	2	3	2	2	10	21	17	15	12	4	4	4	6	3	5	6	4	4	5	2	3	6
24	4	3	4	6	4	6	5	6	5	5	5	5	4	8	15	9	8	5	4	8	4	8	4	9	6
25	6	6	5	5	2	3	6	5	6	6	8	8	3	11	12	17	23	32	34	25	23	23	19	21	13
26	15	13	12	7	9	2	3	8	11	13	14	13	13	14	17	19	15	3	4	3	3	2	1	5	9
27	2	2	2	2	1	1	2	3	1	2	2	2	3	3	3	2	4	4	4	3	3	2	2	5	3
28	4	3	2	2	8	9	10	13	10	3	2	2	1	M	M	0	0	0	0	2	4	1	0	0	3
29	0	0	1	0	0	0	0	1	10	8	2	0	0	0	0	0	2	0	1	0	0	0	0	14	2
30	10	12	2	1	0	11	15	15	13	13	17	19	4	1	8	7	7	11	7	4	2	0	0	0	7

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
5	5	7	5	15	19	23	26	0	-	37	2	-	13	2	99	0

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



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

STATION : VICTORIA PEAK  
 POLLUTANT : SULPHUR DIOXIDE

YEAR : 2022  
 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	13	13	13	13	13	13	13	14	15	14	15	15	15	14	15	14	14	14	14	14	14	14	14	15	14
2	14	14	14	14	15	14	14	15	15	16	16	16	16	16	16	17	18	18	18	20	20	19	19	19	16	
3	19	19	18	19	18	19	19	19	19	20	21	21	21	21	22	22	24	22	22	24	24	24	23	25	21	
4	23	24	23	23	23	23	23	23	24	24	24	24	24	24	24	24	24	24	24	24	23	24	24	23	24	24
5	24	24	24	23	23	23	23	24	24	25	25	24	25	24	25	25	25	25	25	25	25	24	7	0	0	22
6	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0
9	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
11	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	0
12	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	6	1	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	M	M	0	1	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
21	1	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1
22	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	0	1	1	1	2	1
23	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
24	0	0	0	0	0	0	1	0	0	1	1	1	0	0	1	1	1	0	0	0	0	1	11	1	1	1
25	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
26	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	1	0	0	1	0	0	0
27	0	0	0	0	0	0	0	0	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
28	1	0	0	0	0	0	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	1	2	1
30	2	1	1	1	1	1	0	1	1	1	2	2	2	1	1	1	1	1	1	1	1	2	1	1	1	1
31	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
3	0	3	0	18	23	24	25	0	-	25	0	-	24	4	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 : 2022  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	24	22	18	16	16	16	17	21	20	19	17	16	22	27	26	32	35	37	38	35	30	22	22	19	24
2	18	16	11	15	16	15	15	20	18	18	18	20	23	28	29	37	44	56	59	54	55	55	55	44	31
3	42	35	27	17	16	18	15	17	24	29	27	31	33	33	38	54	69	74	68	70	68	66	58	57	41
4	52	51	38	44	42	29	24	28	27	25	22	18	14	17	19	24	27	44	48	42	46	44	37	39	33
5	36	27	16	12	12	13	12	25	24	24	23	22	20	21	21	27	32	42	41	42	35	34	32	31	26
6	30	22	21	16	13	11	16	28	29	25	22	22	23	27	31	34	39	48	31	19	37	36	26	38	27
7	32	M	18	18	13	11	15	28	33	30	24	19	17	14	20	20	29	29	33	51	45	40	43	23	26
8	30	32	21	11	9	9	10	14	20	22	23	22	20	27	31	48	60	74	80	96	67	57	63	48	37
9	49	58	32	24	33	26	23	34	40	38	36	26	27	28	42	46	42	44	54	60	61	42	39	39	39
10	25	25	18	13	16	14	20	20	28	32	32	28	31	24	31	24	31	27	19	19	28	15	12	15	23
11	15	10	8	11	8	9	12	15	18	17	15	21	20	20	21	19	24	27	27	28	27	22	20	20	18
12	19	14	13	11	9	10	11	18	22	23	30	24	20	19	23	28	30	35	39	35	26	22	24	24	22
13	19	15	14	14	12	12	16	35	43	39	34	34	33	40	50	54	61	68	53	40	34	35	38	30	34
14	23	17	12	12	9	7	14	23	38	37	35	36	41	46	48	54	55	57	55	47	49	40	35	25	34
15	20	13	8	6	9	10	14	19	33	30	25	18	22	28	36	48	51	50	47	39	31	23	22	20	26
16	15	10	9	11	10	7	8	17	36	46	40	38	36	38	32	38	41	43	46	33	19	16	23	19	26
17	18	11	8	7	7	7	10	13	17	20	23	23	17	17	16	17	18	19	19	17	11	8	8	7	14
18	6	4	3	3	3	2	4	7	8	10	11	12	13	12	11	14	18	24	29	26	21	20	25	24	13
19	18	11	9	10	9	8	16	23	29	36	M	M	18	21	27	30	36	38	22	20	23	13	8	9	20
20	8	8	7	7	8	7	10	15	17	19	19	18	15	21	23	24	40	55	53	48	45	51	60	83	28
21	66	M	32	19	17	22	26	31	39	36	29	23	27	34	30	31	21	24	26	23	38	30	35	22	30
22	14	14	12	11	9	8	10	22	38	48	42	26	19	23	27	25	37	39	39	30	29	22	24	20	25
23	16	12	9	8	8	9	20	40	39	53	28	19	15	14	19	27	29	40	65	83	55	27	23	11	28
24	15	22	17	15	15	14	17	20	31	42	46	39	30	29	38	40	33	43	45	32	31	27	24	25	29
25	21	15	13	11	14	18	19	23	21	15	12	10	7	10	9	10	9	9	13	10	10	11	10	11	13
26	8	8	9	8	7	8	10	10	10	8	11	13	15	17	20	23	24	27	36	15	19	26	24	17	16
27	13	13	12	12	10	10	12	15	13	16	13	12	10	10	9	8	8	10	15	12	9	11	11	14	12
28	9	9	7	8	7	8	10	23	37	32	25	25	22	23	31	34	51	46	62	61	28	26	22	20	26
29	20	15	14	12	13	23	28	38	38	61	48	54	45	42	40	46	61	73	69	66	48	45	43	36	41
30	37	26	20	17	18	19	16	29	39	54	47	40	42	41	41	44	50	65	54	49	47	40	30	28	37
31	24	22	20	15	22	23	25	35	37	38	32	21	15	16	25	38	46	46	42	48	48	39	32	43	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		
23	23	27	23	48	55	66	70	2	-	96	12	-	41	2	99	0

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

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

STATION : CHUNG HOM KOK ZONE SUBSTATION  
 POLLUTANT : SULPHUR DIOXIDE

MONTH:DECEMBER

YEAR :2022

UNIT :MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	0	1	1	0	2	0	0	1	2	1	1	1	2	1	1	1	1	1	1	0	1
2	0	0	0	0	0	0	0	0	1	1	3	11	6	7	7	8	8	8	7	7	8	8	8	1	4
3	2	2	2	3	3	3	2	3	2	2	3	3	3	4	2	4	3	3	3	3	3	4	3	2	3
4	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
6	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0
7	2	2	3	2	2	2	3	4	2	2	2	2	2	2	3	3	3	2	2	2	2	4	0	2	
8	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	2	1	1	1	2	1
9	3	4	4	3	3	3	2	3	2	3	4	3	4	3	4	4	4	4	4	3	3	3	3	3	3
10	3	2	2	2	2	2	2	2	2	2	3	3	3	2	3	3	3	3	3	3	3	2	2	0	2
11	0	0	1	1	1	0	0	1	2	1	0	0	1	0	1	1	1	2	1	0	0	0	1	0	1
12	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	2	0	0	0	0	0	0	1	0
13	0	0	1	0	0	0	1	1	1	2	1	0	0	1	2	1	0	0	0	0	M	M	M	M	1
14	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	1	0	1	1	0	1	1	0	1	1	1	1	0	0	0	0	0	0	0	1	0
17	1	0	0	0	0	0	1	1	1	2	2	2	2	2	2	2	2	1	1	2	1	2	1	1	1
18	2	2	2	2	2	2	1	1	2	3	3	4	3	4	3	3	3	3	1	2	2	1	1	0	2
19	0	0	1	1	1	1	0	1	1	2	2	2	3	3	2	2	2	2	0	0	1	1	1	0	1
20	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0
21	3	4	5	3	2	3	4	4	5	5	3	3	4	2	3	3	3	3	3	3	3	3	4	3	3
22	2	2	2	2	2	2	2	1	2	3	2	2	1	0	1	1	1	3	3	2	2	2	2	3	2
23	3	3	3	2	2	2	2	2	2	2	3	2	2	1	1	1	2	3	1	1	1	2	2	1	2
24	1	0	0	1	2	2	1	1	1	2	3	2	1	0	1	1	2	2	1	0	1	M	M	M	1
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	
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	
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	
28	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
29	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	3	4	2	3	3	1	1	1	2	
30	2	2	2	2	2	2	1	2	2	3	3	2	2	2	5	4	3	3	2	2	1	1	2	0	2
31	0	0	0	0	1	0	0	0	0	1	0	0	1	1	0	0	1	1	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		
2	1	1	1	3	4	5	8	0	-	11	0	-	4	2	82	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 : 2022

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	14	13	12	11	11	13	14	16	22	25	22	21	16	15	18	28	42	45	43	38	32	22	25	18	22
2	14	14	13	10	10	12	14	23	25	20	19	14	11	10	15	17	23	15	29	35	54	47	39	46	22
3	28	17	15	12	18	15	17	17	21	29	32	29	35	37	41	47	51	53	52	63	53	55	34	34	34
4	16	24	21	20	21	33	34	18	15	14	12	11	11	25	29	31	28	35	36	41	19	17	16	18	23
5	14	12	22	15	13	12	14	17	24	22	23	25	26	30	32	33	37	41	45	49	41	30	32	31	27
6	21	10	16	18	15	14	10	12	11	11	11	12	13	15	15	14	14	20	22	17	14	14	13	18	15
7	17	M	10	8	7	6	8	20	17	11	10	10	10	9	11	12	13	14	14	14	9	7	10	11	
8	8	9	14	13	12	10	11	14	14	14	11	6	8	9	9	10	12	16	55	72	43	38	45	31	20
9	38	35	29	24	16	10	13	14	24	32	40	36	37	38	51	55	56	54	51	54	40	36	31	24	35
10	27	23	14	12	15	16	14	17	16	19	32	33	33	31	34	35	24	24	27	25	18	13	11	11	22
11	12	9	10	9	8	9	10	17	17	18	19	19	23	22	22	23	24	26	24	23	19	18	20	23	18
12	17	15	13	12	10	10	12	20	24	24	24	20	20	20	21	21	24	23	24	29	26	20	18	17	19
13	17	16	13	11	10	10	12	15	18	23	20	23	26	23	34	43	49	53	53	29	M	M	M	M	25
14	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	48	36	23	17	19	14	10	8	
15	9	7	7	6	6	7	7	8	10	12	14	16	14	13	18	19	24	30	28	24	21	17	15	14	14
16	20	14	12	10	9	10	7	11	12	15	18	40	44	31	40	29	13	12	12	8	7	8	7	8	17
17	13	12	9	9	9	9	9	10	11	13	16	17	14	12	13	13	12	11	10	8	7	7	6	5	11
18	6	5	4	4	4	4	5	6	6	6	8	11	12	13	12	12	15	14	17	11	9	10	10	10	9
19	10	8	8	9	9	9	11	13	13	13	11	11	9	9	12	12	13	12	10	8	12	13	10	7	11
20	6	7	7	8	9	8	8	8	9	11	12	9	11	12	17	10	25	16	14	18	14	16	18	36	13
21	93	M	22	11	10	16	15	23	26	19	13	15	18	31	38	25	22	28	24	28	22	17	14	9	23
22	8	8	7	5	4	5	7	11	16	20	10	10	13	10	12	14	15	32	37	25	13	11	10	10	13
23	10	8	7	6	6	6	7	9	11	11	11	10	9	6	7	8	8	9	13	18	17	15	12	10	10
24	11	12	11	11	10	8	7	7	10	13	12	15	12	14	14	15	15	13	10	11	16	M	M	M	12
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	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
29	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	65	75	59	53	38	30	23	19	
30	17	17	13	12	13	10	9	15	28	35	24	17	17	26	49	44	31	39	33	21	14	14	14	11	22
31	10	9	10	9	9	9	9	10	17	11	9	10	9	7	8	11	18	31	22	22	17	15	14	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	
16	14	19	14	36	45	54	56	4	-	93	9	-	35	2	82	0

NOTES:

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

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

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : SULPHUR DIOXIDE

MONTH: DECEMBER

YEAR : 2022  
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	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0		
3	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	1	1	1	1	2	0	
4	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	1	
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	1	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	1	0	
7	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	0	
9	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	0	0	0	0	0	0	0	0	0	0	M	2	3	3	2	2	2	2	2	2	2	2	2	2	3	1	
17	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	3	1
20	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	2	1	2	1	3	1	
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	2	
22	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	1	2	2	2	2	2	3	2	
23	2	2	2	2	2	2	1	2	2	2	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	2	
24	2	2	2	2	1	1	2	2	2	1	2	2	3	2	2	2	2	2	2	1	1	2	2	3	2		
25	1	2	1	2	2	1	1	1	1	1	2	2	2	1	1	2	2	2	2	2	1	1	2	3	2		
26	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	2	2	1	1	1	1	1	1	2	1	
27	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	1	2	1	1	1	1	1	1	1	1	1	
28	1	1	1	1	1	1	1	1	1	2	1	2	2	1	2	2	2	2	2	2	1	1	1	1	2	1	
29	1	2	2	1	1	1	2	1	2	1	2	2	2	2	2	2	2	2	2	1	2	2	1	2	2	2	
30	2	2	2	1	0	1	1	1	1	2	2	2	2	2	2	2	2	2	2	1	1	2	1	2	2	2	
31	1	1	1	1	1	1	1	1	1	2	2	2	2	1	2	2	2	2	2	1	2	1	1	1	2	1	

MONTHLY STATISTICS:

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

NOTES:

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

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

STATION : VICTORIA ROAD SUBSTATION  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	1	0	0	0	0	0	0	1	2	3	2	3	4	8	30	21	8	6	5	4	3	2	2	4
2	1	1	0	1	1	0	0	2	2	3	2	3	4	23	26	32	35	40	38	51	20	9	9	9	13
3	9	15	25	20	22	21	18	18	4	4	4	26	26	29	35	38	44	49	48	50	50	62	49	46	30
4	36	32	28	24	23	21	18	4	4	3	3	3	3	15	22	21	22	28	15	9	8	7	7	8	15
5	6	5	3	0	2	0	1	1	3	2	3	3	4	5	7	13	11	9	8	7	6	5	5	6	5
6	4	2	3	3	2	0	1	4	4	4	4	5	4	6	7	9	10	11	12	5	5	9	5	8	5
7	8	M	3	3	1	2	1	4	3	4	7	9	7	6	14	17	27	10	10	15	14	10	9	8	8
8	11	7	6	2	2	0	1	4	6	7	13	9	5	4	11	27	50	52	66	57	43	27	12	25	19
9	26	15	19	18	17	5	2	8	8	8	9	13	34	31	44	44	42	43	47	43	42	34	25	22	25
10	20	19	14	10	9	9	12	16	7	5	6	17	24	26	30	24	26	24	21	18	17	12	10	13	16
11	11	9	8	7	7	7	7	3	0	0	1	2	14	16	14	14	17	17	17	14	7	6	2	3	8
12	1	1	1	0	0	0	0	0	2	3	4	4	3	3	3	4	4	6	6	5	3	2	2	2	2
13	2	1	0	0	0	0	1	3	5	6	6	6	6	9	10	9	10	11	9	8	6	6	6	5	5
14	4	4	2	1	0	0	0	2	4	5	7	7	7	7	9	10	10	10	11	9	8	7	6	4	6
15	3	3	1	1	1	1	2	4	6	8	10	6	6	8	9	11	12	11	11	9	7	5	4	3	6
16	2	1	0	0	0	0	2	4	5	6	M	11	9	10	12	12	12	12	11	8	5	4	4	3	6
17	2	0	0	0	0	0	0	1	3	5	6	4	4	5	6	6	5	5	4	3	2	0	0	1	3
18	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	3	4	5	4	4	4	3	3	2
19	2	1	0	0	0	0	3	7	10	10	9	7	6	6	11	13	14	24	19	11	7	5	2	2	7
20	1	0	0	0	0	0	2	4	6	10	10	14	13	13	11	23	20	21	19	23	19	18	20	22	11
21	23	M	11	9	5	9	7	9	10	13	11	9	11	12	11	9	13	14	9	7	8	7	6	5	10
22	3	2	1	0	0	0	1	3	8	15	15	11	7	17	12	11	13	13	10	8	7	7	5	3	7
23	3	1	0	0	0	0	0	4	7	16	12	5	8	10	9	11	12	17	17	15	14	12	9	5	8
24	3	3	4	2	3	4	3	5	5	8	10	15	16	17	13	19	11	12	13	16	15	9	8	6	9
25	6	5	3	3	2	4	4	6	6	4	4	3	2	2	2	3	3	2	3	2	2	3	2	2	3
26	2	1	1	1	1	1	2	2	2	2	1	5	7	5	4	4	6	9	8	12	8	8	7	5	4
27	2	2	2	1	1	1	1	2	3	6	5	3	3	3	3	2	1	2	3	3	2	1	2	2	2
28	1	0	0	1	0	1	2	5	11	12	8	7	6	12	24	12	30	18	14	13	11	9	6	6	9
29	4	3	2	2	2	5	8	8	11	17	17	18	15	14	15	16	19	21	22	20	16	14	11	12	12
30	11	7	4	3	2	3	4	7	12	15	15	14	13	15	16	13	16	19	19	15	14	11	13	9	11
31	7	5	5	6	6	5	5	8	11	12	14	13	11	15	13	13	16	18	16	13	11	11	10	10	11

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
7	6	9	6	20	28	44	50	0	-	66	2	-	30	3	100	0

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

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

STATION : POK FU LAM  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

ARITH-----PERCENTILES-----RANGE-----											STN GEOM	PERCENT	NO. OF TIMES				
GEOM	MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE LIMIT LEVEL				
	2	2	2	2	5	5	6	8	0	-	12	0	-	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 : POK FU LAM  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	28	24	21	19	18	20	22	27	27	27	26	25	28	32	36	39	41	45	46	41	32	28	28	26	29
2	24	22	22	25	21	20	24	32	28	25	24	21	26	29	43	56	60	67	65	64	61	57	54	51	38
3	50	44	40	35	38	36	34	35	35	30	27	30	34	39	50	58	74	79	84	83	80	72	65	59	50
4	56	51	42	42	37	37	38	37	34	27	23	21	21	27	26	24	36	52	58	62	49	50	41	47	39
5	36	39	24	20	25	24	22	31	35	34	30	30	32	35	47	45	46	52	48	47	37	40	40	36	36
6	34	33	32	30	26	19	29	38	37	31	26	28	27	30	33	41	46	57	51	34	63	60	53	61	38
7	46	33	29	26	26	30	31	36	36	41	38	27	23	28	30	24	20	31	52	70	61	49	51	61	37
8	64	47	35	24	31	18	16	26	30	31	24	21	17	33	42	46	75	102	119	122	75	74	84	98	52
9	83	82	52	27	32	26	29	44	55	44	35	35	30	44	62	60	50	74	73	65	63	46	39	35	49
10	33	29	18	14	16	18	25	25	32	39	39	33	26	32	31	29	39	42	33	29	27	20	18	26	28
11	18	M	13	13	14	15	19	31	25	24	22	23	25	26	25	28	34	35	33	34	33	34	27	25	
12	26	25	19	14	14	15	21	31	35	39	38	32	29	27	29	33	39	53	45	32	26	28	29	29	30
13	25	19	18	17	17	19	32	44	48	46	43	39	48	53	55	55	64	70	57	46	43	44	41	34	41
14	31	32	25	23	12	13	21	39	46	41	45	45	45	49	52	56	54	56	48	49	39	39	34	25	38
15	31	25	22	26	23	28	36	49	54	56	43	31	34	53	58	65	65	64	67	49	35	18	22	19	41
16	20	17	22	24	20	22	34	43	47	46	42	44	47	48	41	45	51	53	53	31	23	27	22	22	35
17	18	10	9	9	10	12	20	22	25	34	30	30	28	34	34	33	28	26	25	23	15	10	10	9	21
18	8	6	7	7	7	6	6	9	13	13	14	15	15	14	13	16	21	26	30	31	28	23	23	29	16
19	20	20	19	19	20	22	34	48	57	52	26	19	18	28	37	49	49	43	32	32	34	25	15	11	30
20	10	8	6	7	8	10	15	32	30	27	23	18	16	19	29	34	65	71	75	75	82	88	79	117	39
21	85	75	46	17	37	45	38	43	55	40	35	34	34	32	31	38	50	47	41	34	34	35	34	24	41
22	17	16	15	15	14	10	22	45	60	53	38	29	25	36	28	34	46	53	68	44	29	21	19	19	32
23	17	12	9	9	9	12	19	36	46	45	42	31	12	15	27	34	53	87	93	71	91	29	25	17	35
24	12	23	15	13	14	14	11	13	25	38	42	49	40	53	33	40	34	50	44	27	21	20	21	18	28
25	15	M	16	22	26	20	21	26	22	17	13	11	10	10	11	13	13	13	19	15	18	22	21	17	17
26	12	10	10	9	9	10	13	14	14	11	12	19	26	16	18	27	32	55	64	50	45	33	38	16	23
27	13	13	13	14	13	11	14	17	18	18	13	11	10	11	10	10	10	15	18	18	14	13	13	11	13
28	10	9	11	12	10	11	14	34	56	39	39	33	30	33	44	37	89	50	54	57	31	22	50	34	34
29	35	19	16	11	21	41	40	46	67	61	58	59	45	48	54	53	71	101	106	92	57	54	54	61	53
30	48	31	27	25	24	26	30	50	64	56	41	41	43	48	42	42	58	70	63	60	49	56	54	29	45
31	27	43	41	32	31	31	38	49	48	43	45	27	13	18	34	51	63	77	55	52	41	38	38	40	41

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
30	32	35	32	59	70	84	93	6	-	122	13	-	53	2	100	0

NOTES:

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



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

STATION : AP LEI CHAU  
 POLLUTANT : SULPHUR DIOXIDE

YEAR : 2022  
 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	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1
2	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1	1	1	1	1	2	2	1	1
3	2	1	1	1	1	1	1	1	2	3	2	2	2	3	2	2	2	3	2	2	3	3	3	4	2
4	3	3	2	2	2	1	2	3	3	2	2	2	2	3	2	2	1	1	1	1	1	1	1	0	2
5	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
6	1	1	1	0	1	0	0	0	1	1	1	1	1	1	2	1	1	1	1	0	0	1	1	0	1
7	0	0	0	0	0	0	0	1	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	3	3	3	3	2	2	2	2	2
9	2	2	1	1	0	0	0	0	2	2	3	1	2	2	2	3	2	0	0	0	1	0	0	1	1
10	1	1	1	0	0	0	0	0	2	4	3	3	2	2	2	1	1	1	1	1	2	1	1	1	1
11	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1
12	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	1	0	0	1	1	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	1	1	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
18	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0
19	0	1	1	1	1	1	1	1	2	3	2	2	2	2	2	2	2	1	1	1	1	1	1	0	1
20	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
21	3	2	3	2	2	3	3	3	4	3	2	2	3	4	3	2	1	1	1	1	1	1	2	2	2
22	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	3	4	2	1	2	2	2	2	3	2
23	3	2	2	2	1	1	1	1	1	1	1	1	0	0	1	1	1	0	0	0	0	0	0	0	1
24	0	0	0	0	1	1	1	1	1	1	2	1	1	2	1	2	1	1	0	1	0	0	0	0	1
25	0	0	0	0	0	0	1	1	2	2	3	2	2	2	2	2	2	1	1	1	0	1	0	0	1
26	0	0	0	0	0	0	0	0	1	1	2	2	2	2	2	2	1	1	1	1	1	0	0	0	1
27	0	0	0	0	0	0	1	1	4	3	4	2	1	1	1	1	1	0	0	0	0	0	0	0	1
28	0	0	0	1	1	1	1	1	4	4	3	3	2	2	2	2	2	1	0	1	1	1	1	1	1
29	1	2	2	2	1	1	2	2	2	3	3	4	4	4	4	3	3	1	2	1	1	1	1	1	2
30	1	0	0	0	0	0	0	0	0	1	1	1	2	2	3	0	1	0	0	0	0	0	0	0	1
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0

MONTHLY STATISTICS:

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

STATION : AP LEI CHAU  
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	22	19	17	14	13	14	16	20	23	26	25	25	28	28	32	35	41	43	42	39	35	28	24	20	26
2	15	13	10	10	12	13	15	20	21	19	19	15	20	27	24	48	53	61	58	55	55	52	51	45	30
3	44	41	31	16	21	28	27	26	25	26	24	23	29	31	38	53	64	72	70	71	69	68	62	53	42
4	52	48	43	39	36	30	29	29	30	26	20	16	15	20	18	21	29	38	42	40	43	39	34	33	32
5	27	27	18	10	12	10	11	19	23	23	22	23	20	23	22	29	37	43	47	42	36	31	27	29	25
6	28	17	19	16	13	11	14	24	29	25	21	17	19	22	32	29	37	46	27	15	26	31	26	33	24
7	24	16	13	12	11	10	22	30	29	29	21	8	8	11	11	10	16	21	32	45	39	25	34	32	21
8	20	18	7	4	4	4	9	13	12	9	6	8	8	6	2	6	32	68	82	73	76	69	58	58	27
9	70	56	41	24	27	25	19	26	33	32	30	25	27	31	44	48	47	51	56	50	54	43	33	30	38
10	26	17	11	8	7	10	17	16	20	28	28	26	19	25	29	18	20	23	15	13	18	9	8	13	18
11	12	6	4	5	3	4	8	11	16	15	14	16	17	19	17	20	25	29	26	23	20	15	15	18	15
12	15	9	7	6	4	6	12	17	23	26	29	25	23	21	19	20	25	30	32	33	20	18	21	19	19
13	16	M	10	9	9	10	15	26	31	36	34	31	27	31	46	45	55	61	60	47	39	35	30	24	32
14	21	18	11	9	7	4	10	17	31	34	35	37	41	43	49	56	57	60	49	36	33	31	29	19	31
15	17	13	5	2	8	10	14	20	23	18	16	16	15	16	26	24	32	26	26	32	27	18	14	13	18
16	11	5	3	4	6	7	7	32	41	43	34	35	36	35	32	31	40	36	39	34	17	10	13	13	24
17	11	7	2	1	2	3	4	7	12	14	18	17	16	15	16	18	13	13	11	8	6	4	3	4	9
18	2	0	0	0	0	0	1	4	4	6	7	6	8	11	13	13	12	16	24	24	22	19	18	25	10
19	20	11	9	8	8	10	15	17	19	23	19	11	12	14	20	19	20	14	10	30	23	17	9	6	15
20	5	6	5	5	7	7	9	10	15	18	18	11	12	15	17	16	22	40	40	57	53	49	58	107	25
21	97	83	61	22	22	28	29	41	38	26	24	24	28	35	31	31	23	31	38	36	45	40	29	18	37
22	17	18	14	12	12	11	18	24	37	39	37	15	11	8	16	27	51	39	43	38	40	23	21	20	25
23	17	12	10	9	11	13	17	28	27	31	24	17	7	8	8	7	9	17	68	84	35	22	24	25	22
24	19	14	13	12	14	15	18	22	26	27	28	23	18	14	16	23	19	30	24	22	25	22	19	19	20
25	18	15	13	13	15	17	23	23	19	17	15	15	8	8	6	7	7	8	13	13	12	12	10	8	13
26	7	7	8	7	7	9	9	9	10	10	8	10	9	9	8	9	11	26	27	17	20	19	18	19	12
27	16	11	9	11	10	11	12	16	13	11	12	9	8	7	6	7	7	6	9	7	7	6	6	8	9
28	6	6	6	6	7	M	14	26	30	23	19	18	16	20	22	23	25	38	32	36	25	24	20	21	20
29	16	11	13	12	13	21	31	35	45	63	43	50	47	43	46	51	68	74	94	79	54	44	41	33	43
30	34	27	17	18	15	16	17	29	51	50	42	41	42	46	47	35	44	53	50	46	48	43	35	32	37
31	23	17	16	16	21	24	19	29	33	30	22	11	9	9	18	40	53	65	51	42	36	22	24	39	28

MONTHLY STATISTICS:

ARITH-----PERCENTILES-----													RANGE-----		STN	GEOM	PERCENT	NO. OF TIMES
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
19	20	24	20	46	56	69	75	0	-	107	9	-	43	2	100	0		

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

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

STATION : CHEUNG CHAU  
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----			STN GEOM	PERCENT	NO. OF TIMES
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR			24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
2	2	2	2	3	4	4	5	1	-	12	1	-	3	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 : NITROGEN DIOXIDE

YEAR : 2022  
UNIT : MICROGRAMS/CUBIC METER

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

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
6	5	7	5	16	20	24	28	0	-	40	1	-	16	3	99	0

NOTES:

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

## Appendix C Summary Results on Water Quality Monitoring

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

Period : October - December 2022

Week Ending	No. of Samples	Suspended Solids, mg/L			pH		
		Maximum	Minimum	Average	Maximum	Minimum	Average
01/10/22	7	24	9	19	8.4	8.2	8.3
08/10/22	7	20	8	14	8.4	8.1	8.2
15/10/22	7	24	9	18	8.5	8.1	8.4
22/10/22	5*	23	12	17	8.3	8.0	8.1
29/10/22	7	24	17	21	8.3	7.7	8.1
05/11/22	7	24	14	19	8.4	7.6	8.1
12/11/22	7	22	12	17	8.4	7.7	8.0
19/11/22	7	22	14	19	8.5	7.4	7.9
26/11/22	7	22	13	18	8.6	7.9	8.3
03/12/22	7	21	10	15	8.1	7.8	8.0
10/12/22	7	20	11	16	8.3	7.9	8.1
17/12/22	1*	15	15	15	7.9	7.9	7.9
24/12/22	3*	22	19	20	8.3	8.0	8.1
31/12/22	5*	22	10	15	8.3	7.9	8.1

Remark :

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

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

Period : October – December 2022

Sampling date		5/10/2022	4/11/2022	7/12/2022
Barium,	ug/L	<150	<150	<150
Mercury,	ug/L	<0.5	<0.5	<0.5
Cadmium,	ug/L	2	3.2	2.3
Iron,	ug/L	<400	<400	<400
Total Phosphorous,	mg/L	<0.8	<0.8	<0.8
Total Nitrogen,	mg/L	35	81	89
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 1/10th of the WPCO Licence permitted limits will not be reported. When the concentration of a metal exceeds 1/10th of the limit, the exact value of the metal concentration will be reported.

## Appendix D Summary of EMIS

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