

# Malaysia Environmental and Safety Country Report

2022 SEAISI Steel Mega Event & Expo  
(Technology, Sustainability, Construction)

Malaysia

14 – 18 November 2022

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# Environmental Institutional Arrangement

# Institutional Arrangements

## Ministries

Key Ministries for CC	May 2018	March 2020
<ul style="list-style-type: none"><li>• The Ministry of Natural Resources and Environment (MNRE)</li><li>• The Ministry of Energy, Green Technology and Water</li></ul>	<ul style="list-style-type: none"><li>• The Ministry of Energy, Science, Technology, Environment and Climate Change (MESTECC)</li><li>• The Ministry of Water, Lands and Natural Resources</li></ul>	<ul style="list-style-type: none"><li>• The Ministry of Environment and Water (KASA)</li><li>• The Ministry of Energy and Natural Resources (KeTSA)</li></ul>

Focal point to the UNFCCC

# Institutional Arrangements

## Policy making

The **National Green Technology and Climate Change Council** was established in September 2009 to set the policy direction on addressing climate change (it has since been renamed as the **Malaysia Climate Change Action Council** in December 2020). It is chaired by the Prime Minister and has several key Cabinet Ministers as members.

The Cabinet is the highest policy decision-making body in the country with climate change matters under the purview of the Minister of Environment and Water. Any decisions taken at the Malaysia Climate Change Action Council and other bodies require a **final endorsement by the Cabinet**

## Development Planning and Implementation

Development planning and implementation is coordinated by **the Economic Planning Unit (EPU)** under the Prime Minister's Department in consultation with other Ministries. These are carried out through the five-year development plans and include climate change mitigation and adaptation programmes.

# Institutional Arrangements

## Guidance & Reporting

National Steering Committee on Climate Change

National Steering Committee on NC & BUR

Project Management Group and Secretariate

### Inventory

Energy

Industrial Processes  
& Product Use

Agriculture

Land Use, Land Use  
Change and Forestry

Waste

### Mitigation

Electricity

Transport

O&G Exploration  
and Extraction

Industrial Processes  
and Product Use

Agriculture

Land Use, Land Use  
Change and Forestry

Waste

### Vulnerability & Adaption Inc Climate Projection Support

Forestry and  
Biodiversity

Water and Coastal  
Resources

Agriculture

Infrastructure

Public Health

Energy

Finance  
and  
Needs

Research  
and  
Systematic  
Observation

MRV

# Institutional Arrangements – Guidance & Reporting

## Guidance & Reporting

### National Steering Committee on REDD plus (NSCREDD)

- was established in 2011
- to formulate the directions and strategies for REDD plus implementation.
- chaired by the Secretary General of the Ministry of Energy and Natural Resources with membership from State Economic Planning Units, Forestry Departments and relevant Ministries.

### National Committee on Clean Development Mechanism (NCCDM)

- was established in 1994
- to guide CDM implementation.
- chaired by the Deputy Secretary General of the Ministry of Environment and Water with the Secretary General being the Designated National Authority.

Remark:

REDD plus: Reducing Emissions from Deforestation and Forest Degradation, and the Role of Conservation, Sustainable Management of Forests and Enhancement of Forest Carbon Stocks in Developing Countries

# National GHG

## Inventory, Sources and Action Plan

# National GHG Inventory 2016

Sector	Emissions / Removals	
	Gg CO <sub>2</sub> eq.	%
Energy	251,695.03	79.4
Industrial Processes and Product Use	27,348.83	8.6
AFOLU – Agriculture	10,627.72	3.4
Waste	27,161.66	8.6
<b>Total Emissions (without LULUCF)</b>	<b>316,833.23</b>	<b>100.0</b>
AFOLU – LULUCF (Emissions)	17,801.27	
AFOLU – LULUCF (Removals)	-259,146.03	
<b>AFOLU – LULUCF (Sub-total)</b>	<b>-241,344.75</b>	
<b>Total Emissions (with LULUCF emissions part only)</b>	<b>334,634.51</b>	
<b>Total Emissions (with LULUCF)</b>	<b>75,488.48</b>	

GHG	%
CO <sub>2</sub>	80
CH <sub>4</sub>	17
N <sub>2</sub> O & F-Gases	2
Others	1

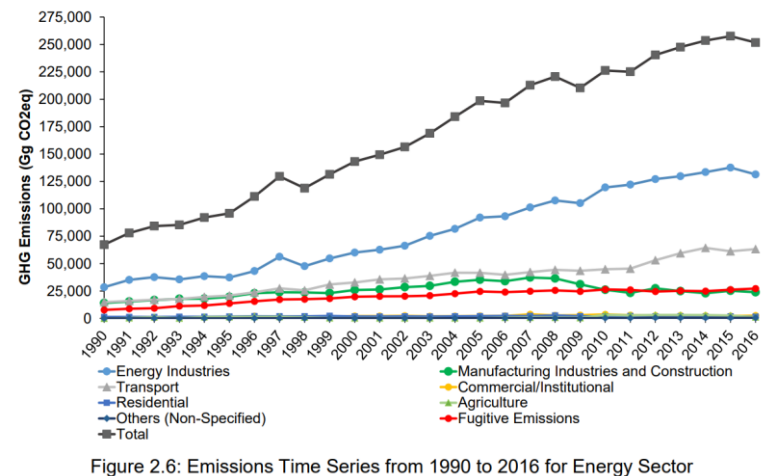
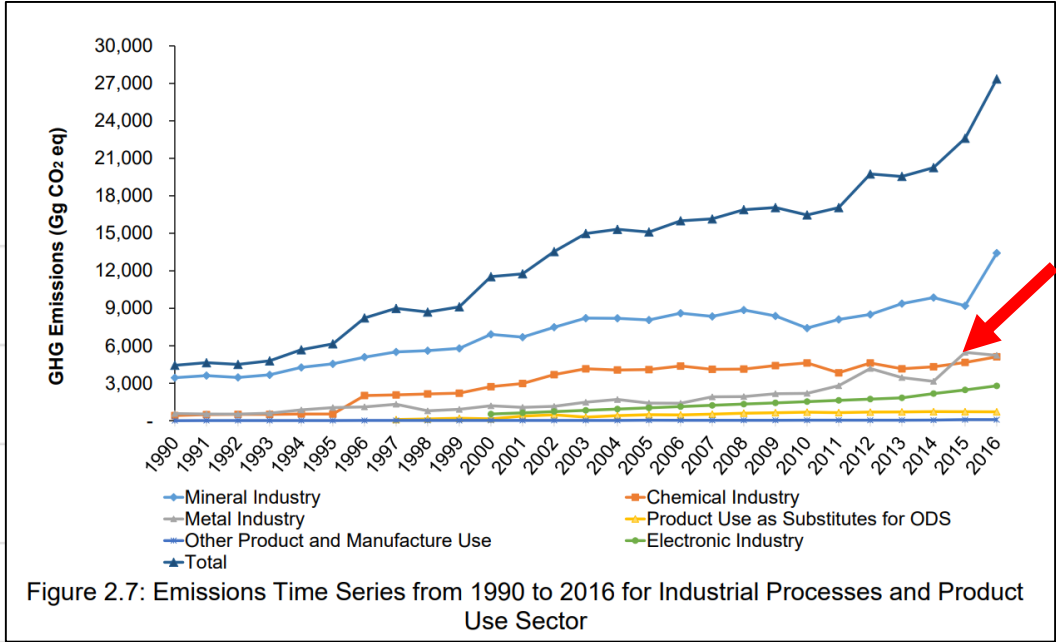
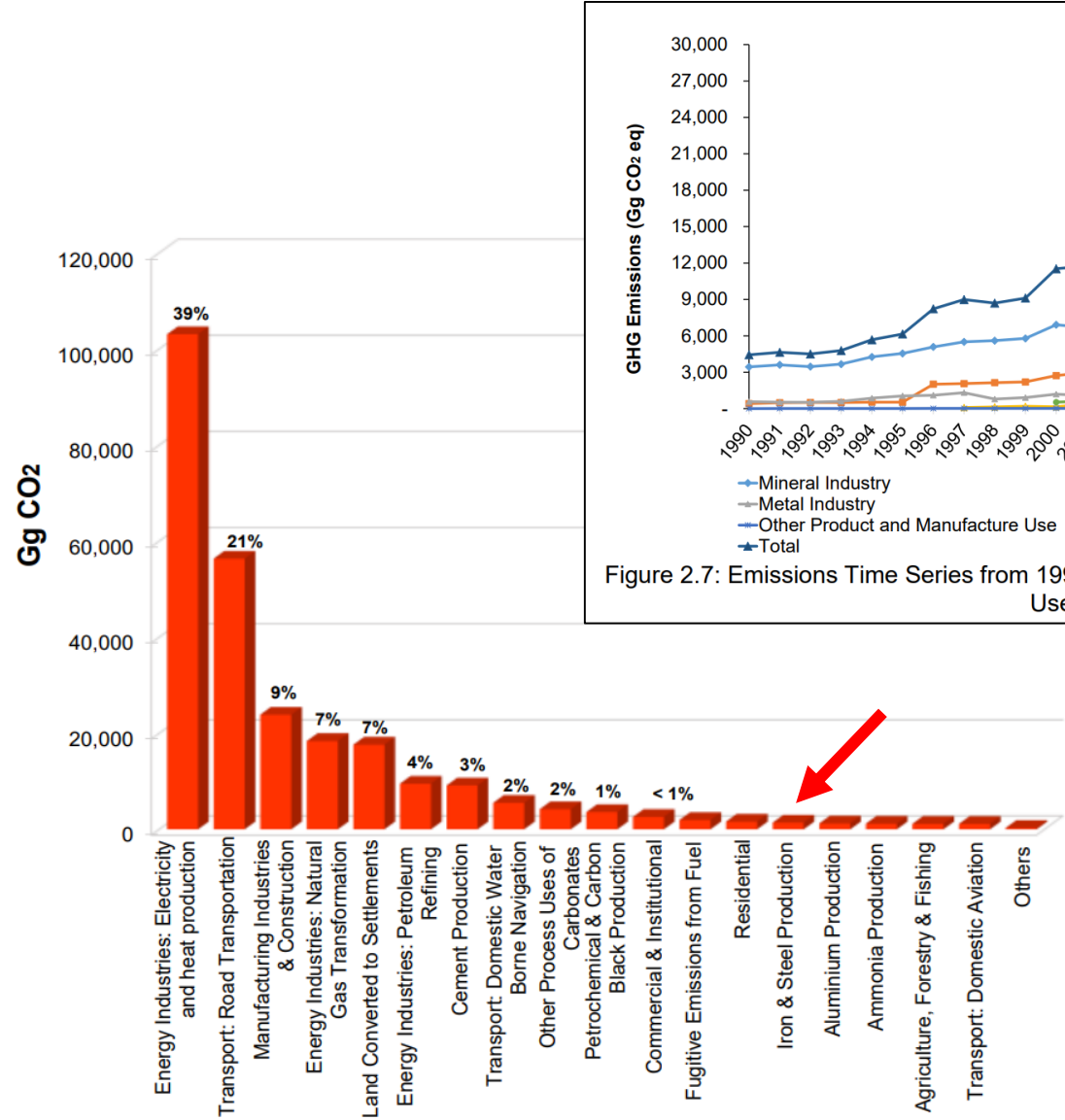
Remark:

- AFOLU: Agriculture, Forestry and Other Land Use
- GHG inventory estimates were obtained following the 2006 IPCC Guidelines for National Greenhouse Gas Inventories

**Increase 57.7%  
against Y2005**



# National GHG Inventory 2016 – Major sources of CO<sub>2</sub>



# Mitigation Actions and their effects 2016

Sector	Sub-sector	Mitigation Actions	Emissions avoidance	
			Gg CO <sub>2</sub> eq.	%
Energy	Renewable Energy (Power)	Feed-in-Tariff (FiT)	460.52	20.2
		Hydropower	6,570.15	
		Other RE by public and private licensees	231.92	
	Energy Efficiency	Efficiency Action Plan (NEEAP)	458.02	1.3
	Transportation	Rail based public transport	212.93	4.3
		Use of energy-efficient vehicles	90.65	
		Use of palm-based biodiesel in blended petroleum diesel	1,127.34	
		Use of natural gas in vehicles	114.7	
Waste	Paper recycling	3,937.76	17.6	
	Biogas recovery from palm oil mill effluent	2,377.84		
Forestry	Reducing deforestation, Sustainable management of forest and Conservation of carbon stocks		20,307.50	56.6

Remark: Mitigations in the other sectors, IPPU and Agriculture sectors have yet to be quantified.

# Mitigation Actions and their effects 2016

## Power Sector Development Plan

The Ministry of Natural Resources and Environmental Conservation's energy efficiency development plan program identified in Malaysia. In 2020, the new targets on the National Energy Efficiency Action Plan (NEEAP) at 31% of the total installed capacity by 2025 and at 40% by 2035. This involves the installation of 1,178 MW of renewable energy by 2025 and 2,414 MW by 2035.

Generation of electricity by hydropower stations

Reducing emissions from forests

Renewable energy (RE) implementation through Feed-in Tariff (FiT) mechanism

RE by public and private licensees

## Green Technology Financing Scheme (GTFS)

GTFS is a financing scheme to facilitate the development of green technology projects, providing access to private funds. The scheme, which targets both producers and users of green technology, has a government guarantee of 60% of the investment amount and a maximum of RM10 million per project. Financial institutions.

Waste paper recycling

Use of palm-based biodiesel in blended petroleum diesel

## Green Investment Tax Allowances (GITA) and Green Income Tax Exemption (GITE)

In 2014, the Government have introduced the Green Investment Tax Incentives with the development of the Green Investment Tax Allowances (GITA) for capital assets and projects as well as the Green Income Tax Exemption (GITE) for qualified investors.

Use of Natural Gas as fuel in vehicles

Biogas recovery from palm oil mill effluent treatment

Promoting the use of energy-efficient vehicles (EEVs)

## Low Carbon Cities Framework (LCCF)

Introduced in 2011, the Low Carbon Cities Framework (LCCF) is a national framework to guide Local Governments in transforming their cities into Low Carbon Cities. The framework provides necessary tools including financial instruments and technical assistance to help implement low carbon strategies that are both systematic and impactful.

Urban rail-based public transport

Implementation of green building rating scheme

# Overview

## Environment – Air Quality & Pollution Sources

# Overview – Environment – Air Quality

New Ambient Air Quality Standard was established in order to replace the older Malaysia Ambient Air Quality Guideline that has been used since 1989.

The New Ambient Air Quality Standard adopts 6 air pollutants criteria that include 5 existing air pollutants which are particulate matter with the size of less than 10 micron (PM<sub>10</sub>), sulfur dioxide (SO<sub>2</sub>), carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), and ground level ozone (O<sub>3</sub>) as well as 1 additional parameter which is particulate matter with the size of less than 2.5 micron (PM<sub>2.5</sub>).

The air pollutants concentration limit will be strengthened in stages until 2020. There are 3 interim targets set which include interim target 1 (IT-1) in 2015, interim target 2 (IT-2) in 2018 and the full implementation of the standard in 2020.

IPU / API	STATUS KUALITI UDARA / AIR QUALITY STATUS
0 - 50	Baik / Good
51 - 100	Sederhana / Moderate
101 - 200	Tidak Sihat / Unhealthy
201 - 300	Sangat Tidak Sihat / Very Unhealthy
> 300	Berbahaya / Hazardous

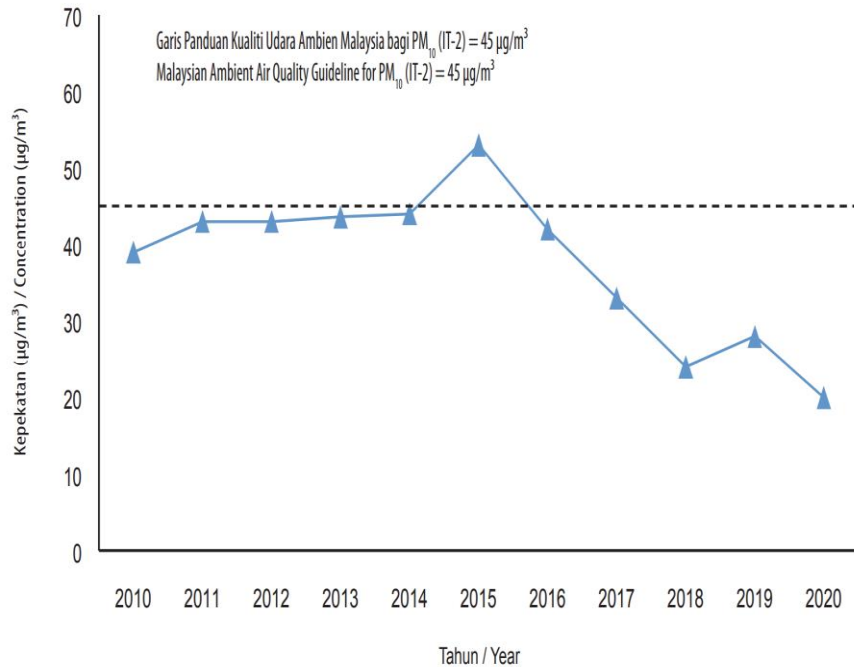
Table 1 : New Malaysia Ambient Air Quality Standard

Pollutants	Averaging Time	Ambient Air Quality Standard		
		IT-1 (2015)	IT-2 (2018)	Standard (2020)
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Particulate Matter with the size of less than 10 micron (PM <sub>10</sub> )	1 Year	50	45	40
	24 Hour	150	120	100
Particulate Matter with the size of less than 2.5 micron (PM <sub>2.5</sub> )	1 Year	35	25	15
	24 Hour	75	50	35
Sulfur Dioxide (SO <sub>2</sub> )	1 Hour	350	300	250
	24 Hour	105	90	80
Nitrogen Dioxide (NO <sub>2</sub> )	1 Hour	320	300	280
	24 Hour	75	75	70
Ground Level Ozone (O <sub>3</sub> )	1 Hour	200	200	180
	8 Hour	120	120	100
*Carbon Monoxide (CO)	1 Hour	35	35	30
	8 Hour	10	10	10

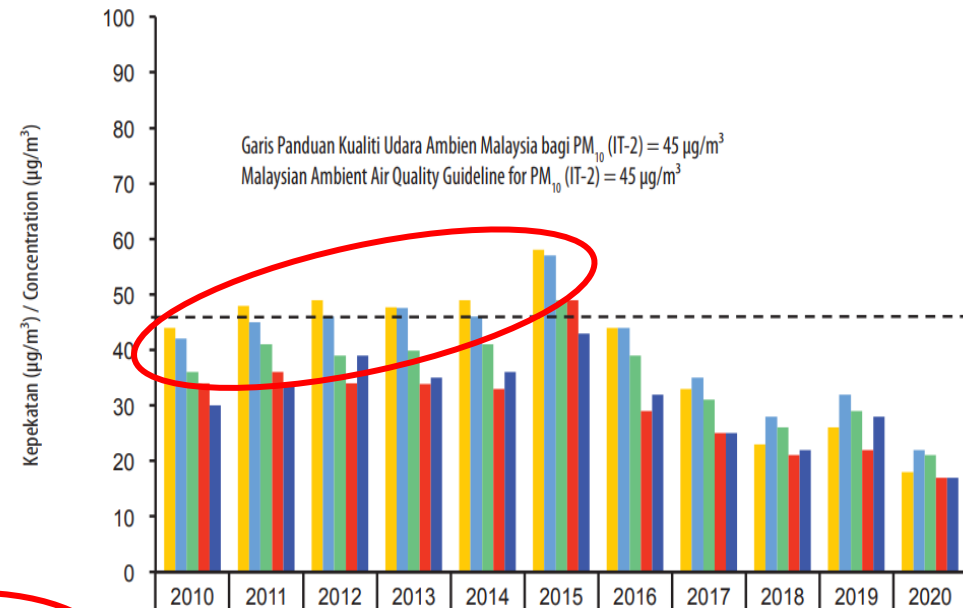
\*mg/m<sup>3</sup>

# Overview – Environment – Air Quality (PM<sub>10</sub>)

## Annual Average Concentration of Particulate Matter [PM<sub>10</sub>], 2010-2020



In year 2020, the annual average value of PM<sub>10</sub> in the ambient air was **20 µg/m<sup>3</sup>** which is well below the Malaysia Ambient Air Quality Standard value of 45 µg/m<sup>3</sup> in IT-2 (2018) and 40 µg/m<sup>3</sup> in Standard (2020).



The MCO imposed by the Government that restrained industrial, commercial and social activities have reduced air pollution particularly the concentration of fine particles in the air

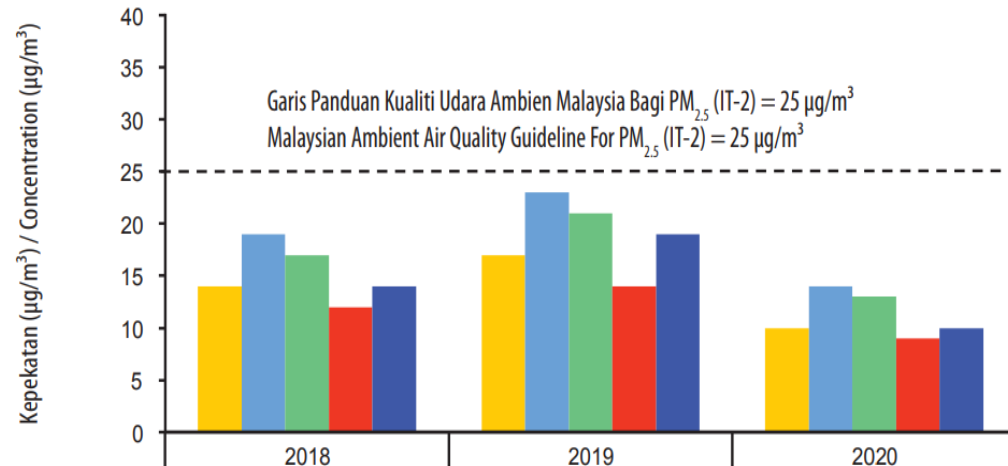
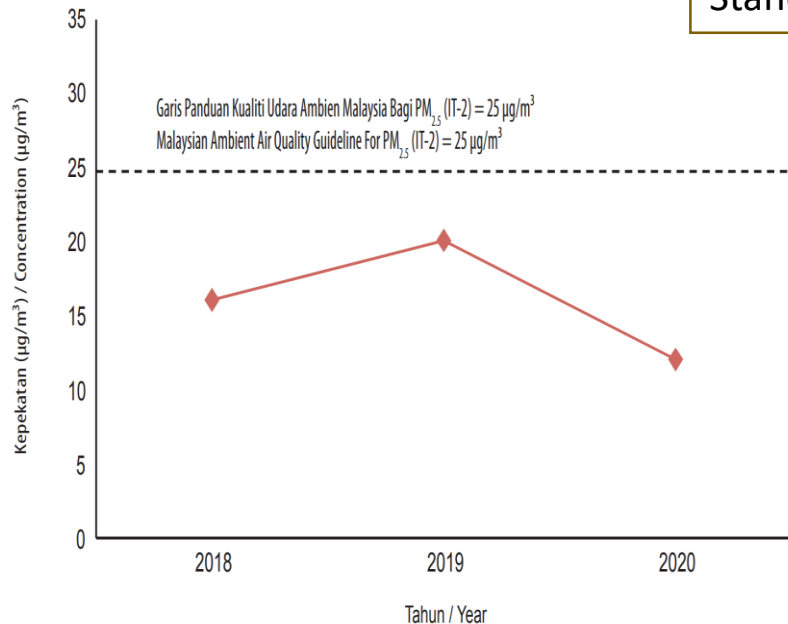
Industri / Industrial	44	48	49	48	49	58	44	33	23	26	18
Bandar / Urban	42	45	46	48	46	57	44	35	28	32	22
Pinggir Bandar / Suburban	36	41	39	40	41	49	39	31	26	29	21
Latarbelakang / Background	34	36	34	34	33	49	29	25	21	22	17
Pendalaman / Rural	30	34	39	35	36	43	32	25	22	28	17

# Overview – Environment – Air Quality (PM<sub>2.5</sub>)

## Annual Average Concentration of Particulate Matter [PM<sub>2.5</sub>], 2018-2020

PM<sub>2.5</sub> was started to be measured and analysed in year 2017 and it was first reported in Environmental Quality Report 2018.

In year 2020, the annual average value of PM<sub>2.5</sub> in the ambient air was **12 µg/m<sup>3</sup>** which is well below the Malaysia Ambient Air Quality Standard value of 25 µg/m<sup>3</sup> in IT-2 (2018). The achievement of level below Malaysia Ambient Air Quality Standard 2020 value of 15 µg/m<sup>3</sup> yet to be monitored.

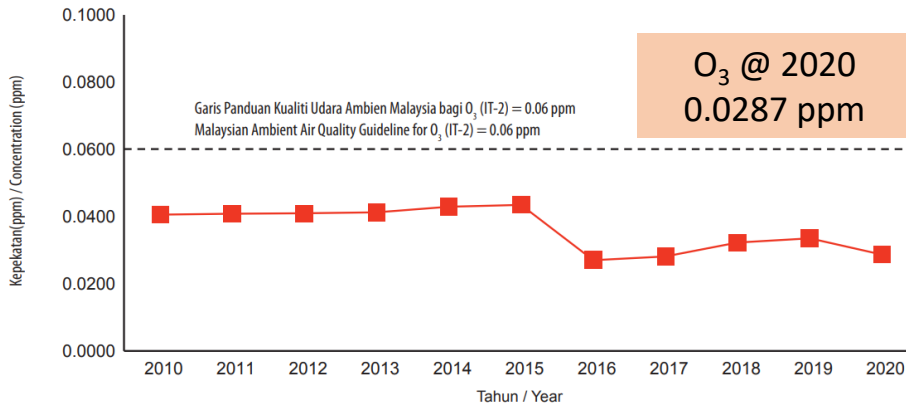


	2018	2019	2020
Industri / Industrial	14	17	10
Bandar / Urban	19	23	14
Pinggir Bandar / Suburban	17	21	13
Latarbelakang / Background	12	14	9
Pendalaman / Rural	14	19	10

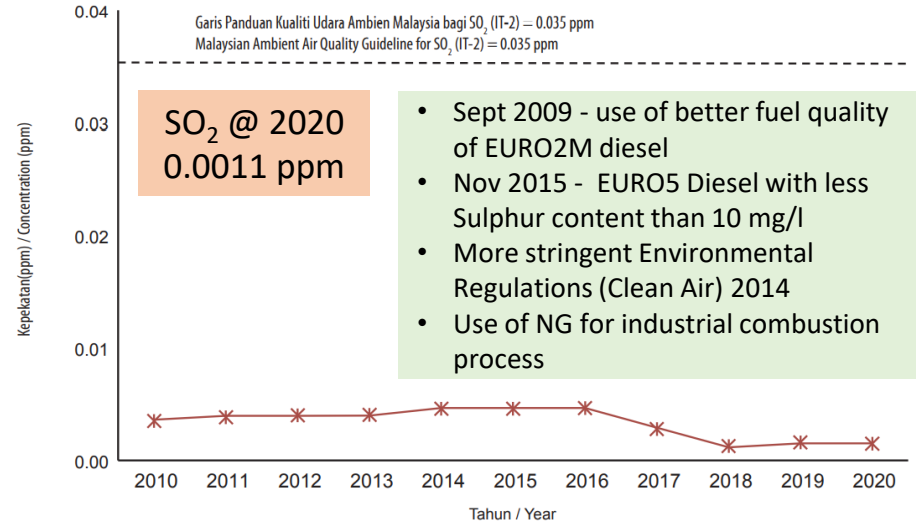
- Humid weather conditions
- Reduction of forest and bush fire cases in the country
- The absence of transboundary haze incidents in 2020

# Overview – Environment – Air Quality (O<sub>3</sub>, CO, SO<sub>2</sub> & NO<sub>2</sub>)

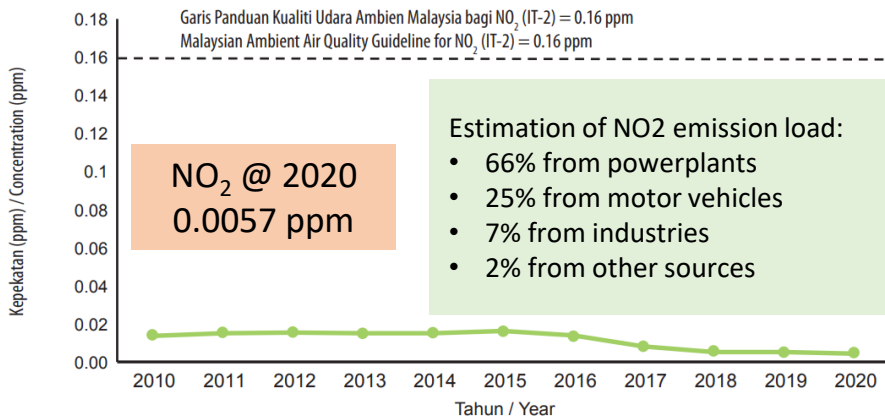
## Annual Average Concentration of O<sub>3</sub>, CO, SO<sub>2</sub> & NO<sub>2</sub> (Year 2010 to 2020)



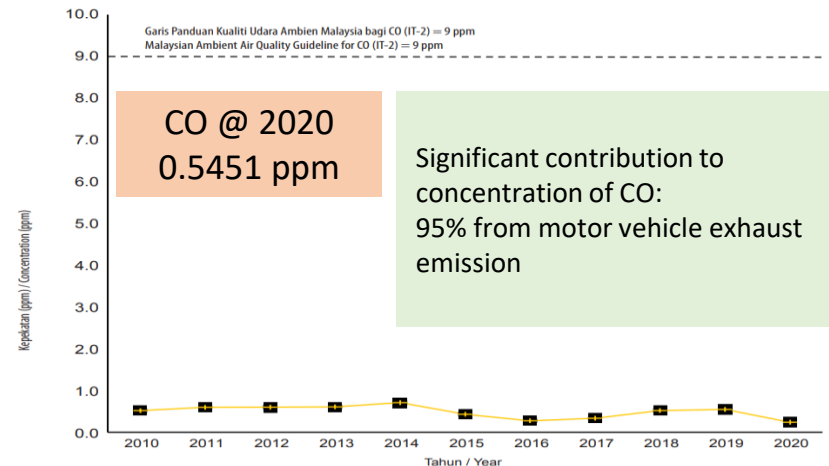
Rajah 1.9 : Purata Kepekatan Tahunan Ozon (O<sub>3</sub>), 2010-2020  
Figure 1.9 : Annual Average Concentration of Ozone (O<sub>3</sub>), 2010-2020



Rajah 1.10 : Purata Kepekatan Tahunan Sulfur Dioksida (SO<sub>2</sub>), 2010-2020  
Figure 1.10 : Annual Average Concentration of Sulphur Dioxide (SO<sub>2</sub>), 2010-2020



Rajah 1.11 : Purata Kepekatan Tahunan Nitrogen Dioksida (NO<sub>2</sub>), 2010-2020  
Figure 1.11 : Annual Average Concentration of Nitrogen Dioxide (NO<sub>2</sub>), 2010-2020

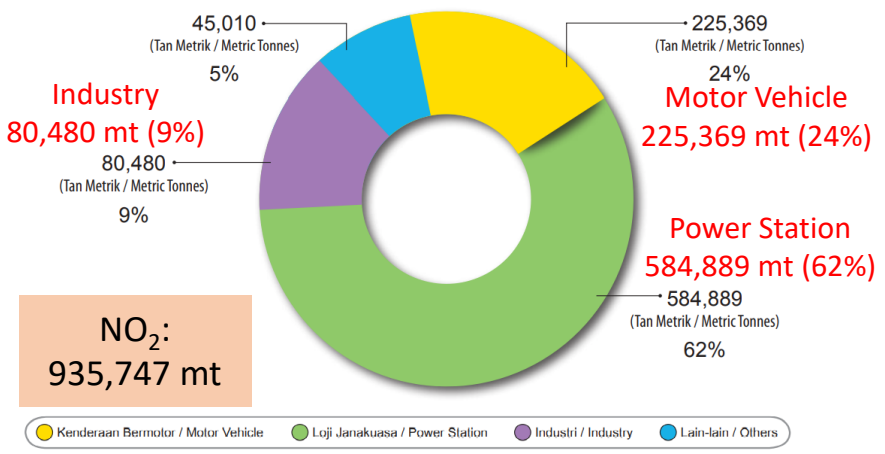


Rajah 1.12 : Purata Kepekatan Tahunan Karbon Monoksida (CO), 2010-2020  
Figure 1.12 : Annual Average Concentration of Carbon Monoxide (CO), 2010-2020

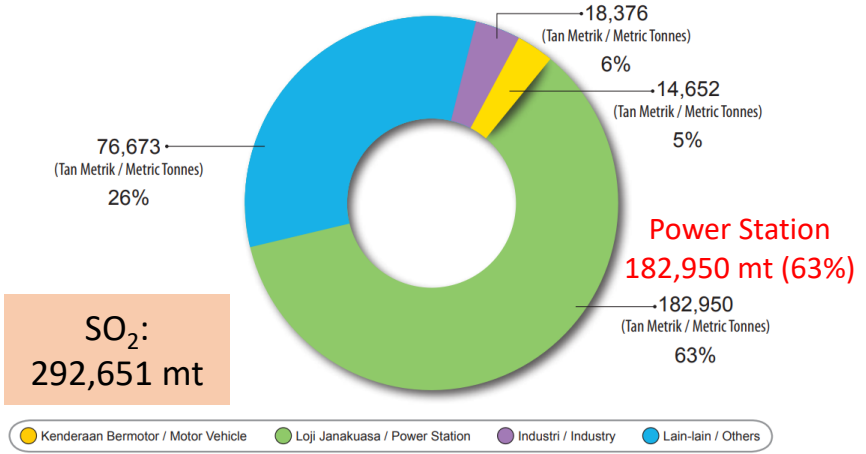


# Overview – Environment – Air Pollution (2020)

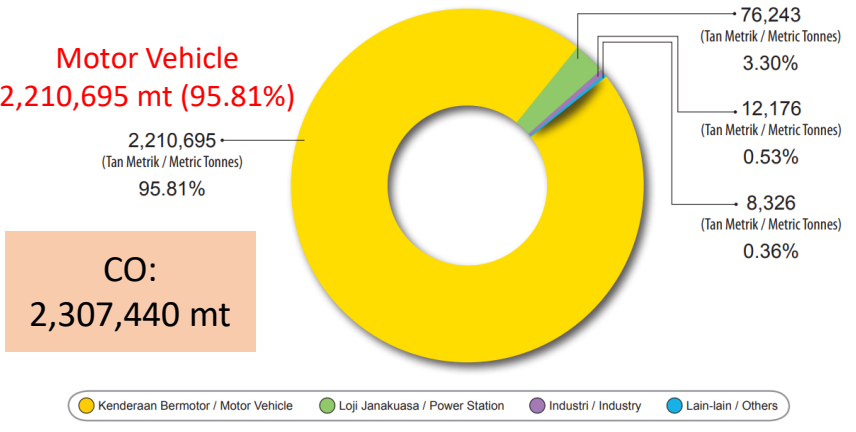
Overall cumulative air pollutant emission load was 2,307,440 metric tonnes of carbon monoxide (CO), 935,747 metric tonnes of nitrogen dioxide (NO<sub>2</sub>), 292,651 metric tonnes of sulphur dioxide (SO<sub>2</sub>) and 29,266 metric tonnes of particulate matter (PM).



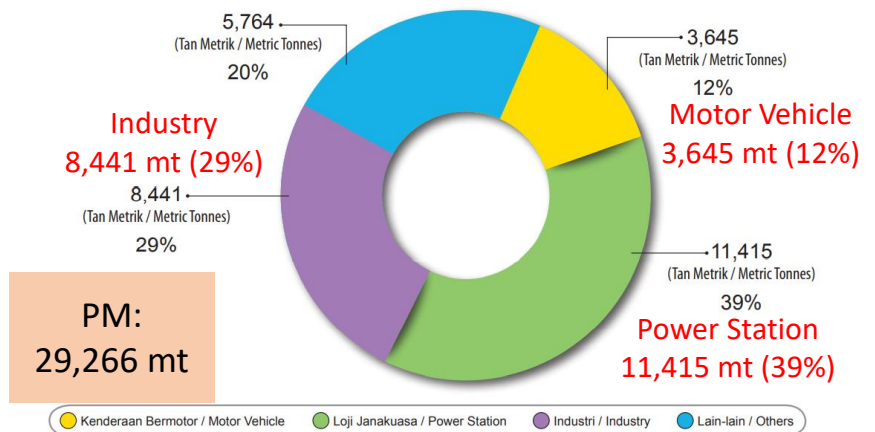
Rajah 5.13 : Punca Beban Pencemaran NO<sub>2</sub> (Tan Metrik), 2020  
Figure 5.13 : NO<sub>2</sub> Emission Load by Sources (Metric Tonnes), 2020



Rajah 5.11 : Punca Beban Pencemaran SO<sub>2</sub> (Tan Metrik), 2020  
Figure 5.11 : SO<sub>2</sub> Emission Load by Sources (Metric Tonnes), 2020



Rajah 5.14 : Punca Beban Pencemaran CO (Tan Metrik), 2020  
Figure 5.14 : CO Emission Load by Sources (Metric Tonnes), 2020



Rajah 5.12 : Punca Beban Pencemaran PM (Tan Metrik), 2020  
Figure 5.12 : PM Emission Load by Sources (Metric Tonnes), 2020

# Overview

## Environment – Water Quality & Pollution Sources

# Overview – Environment – Water Quality

## River Water Quality

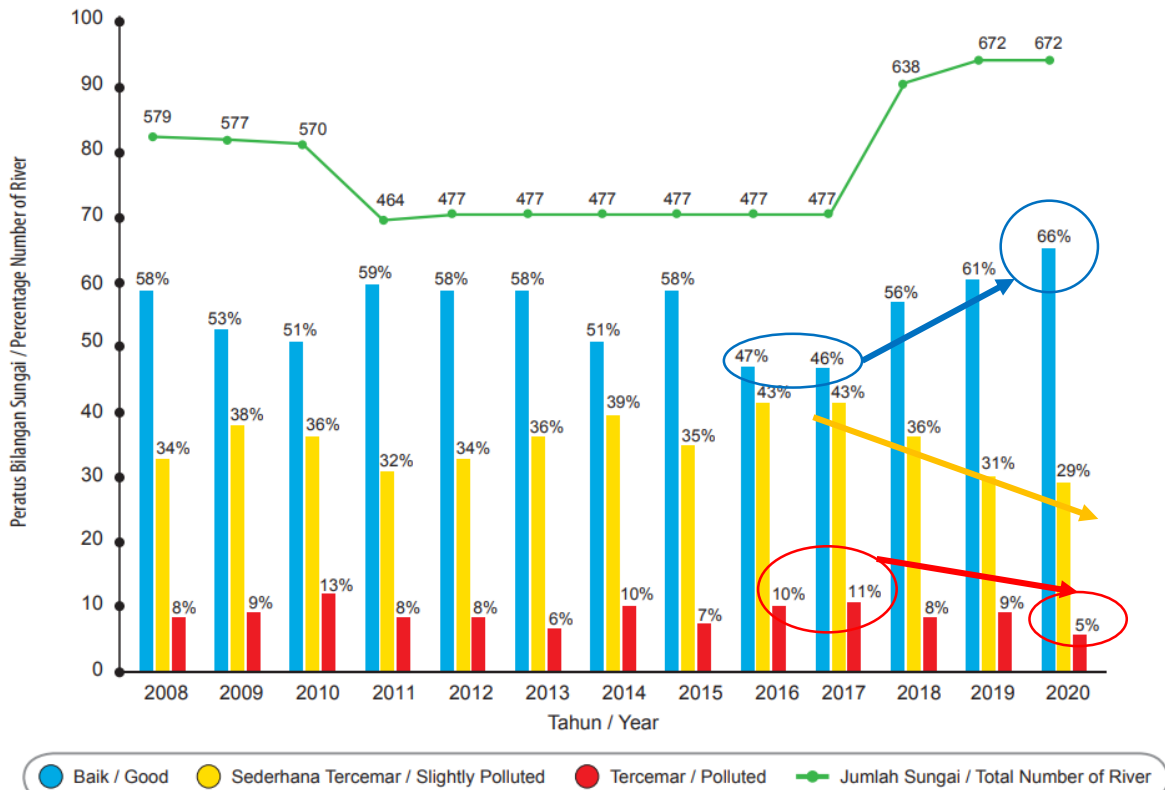
In year 2020, total of 8,098 samples were taken from a total of 1,353 manual monitoring stations covering 672 rivers in Malaysia for river water quality assessment.

According to Water Quality Index, out of the 672 rivers monitored:

- 443 (66%) rated clean
- 195 (29%) rated slightly polluted
- 34 (5%) rated polluted.

WQI takes into consideration parameters:

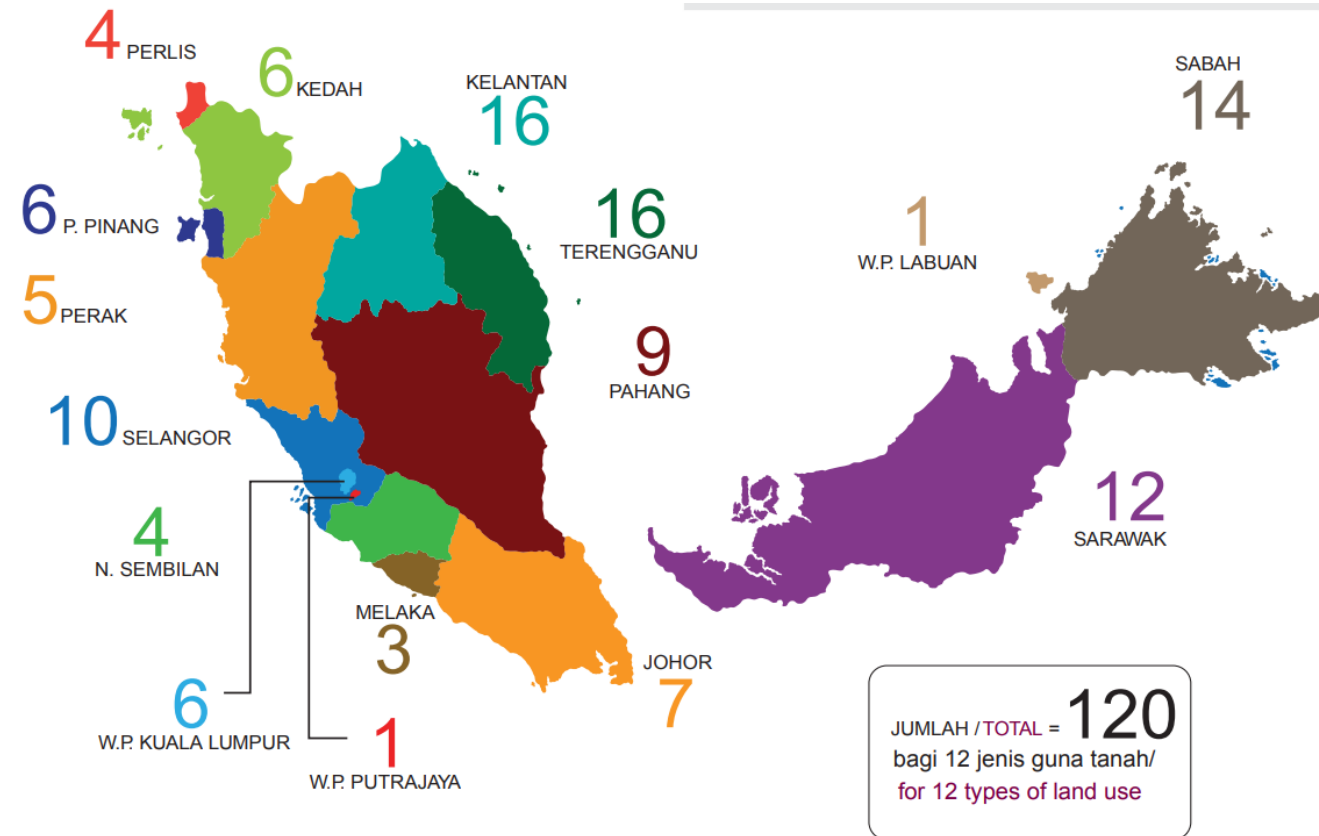
1. Dissolved Oxygen (DO),
2. Biochemical Oxygen Demand (BOD),
3. Chemical Oxygen Demand (COD),
4. Ammoniacal Nitrogen (AN), and
5. Suspended Solids (SS)



Rajah 2.1 : Tren Kualiti Air Sungai, 2008-2020  
Figure 2.1 : River Water Quality Trend, 2008-2020

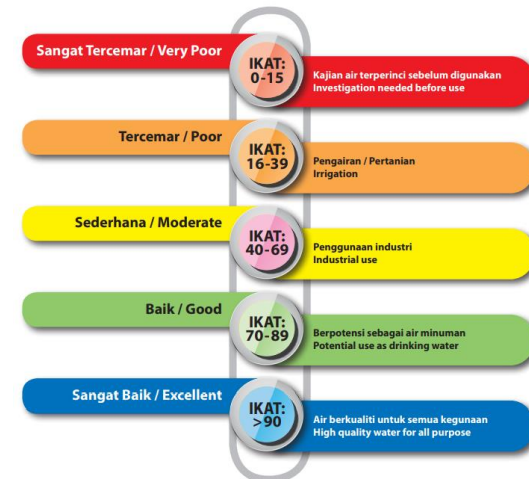
# Overview – Environment – Water Quality

## Groundwater Quality

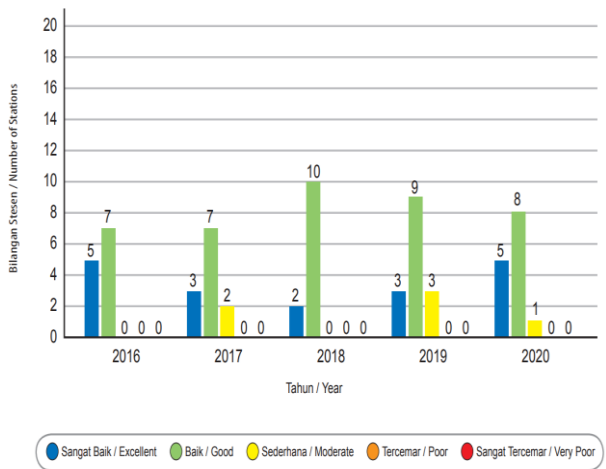


Jumlah Telaga Pengawasan bagi Setiap Negeri Seluruh Malaysia, 2020  
Total Number of Monitoring Wells for Each State in Malaysia, 2020

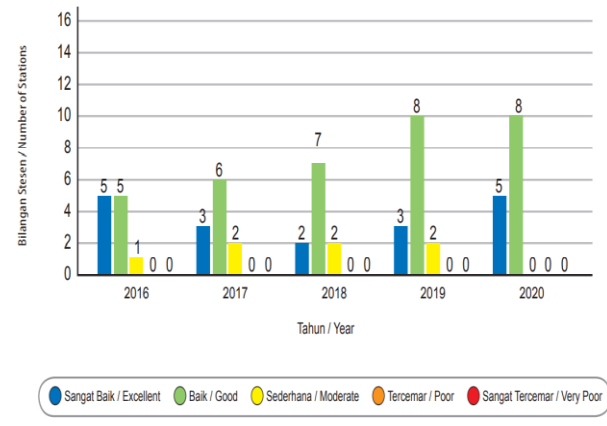
Jadual 3.2 : Klasifikasi Indeks Kualiti Air Tanah  
Table 3.2 : Groundwater Quality Index Classification



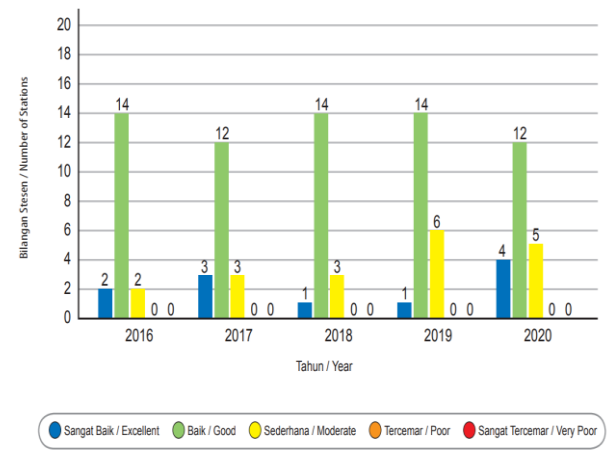
# Overview – Environment – Water Quality



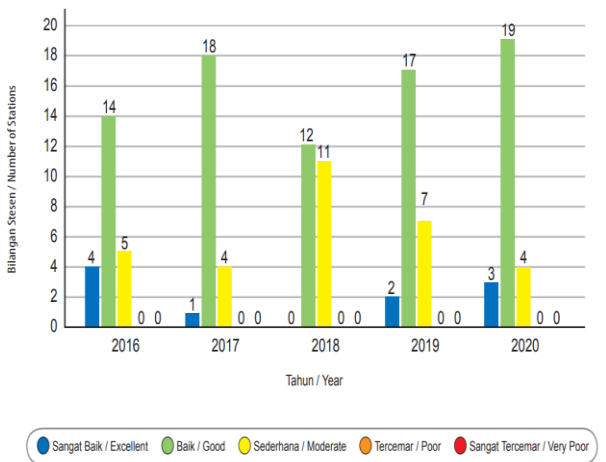
**Groundwater QI for Agriculture**



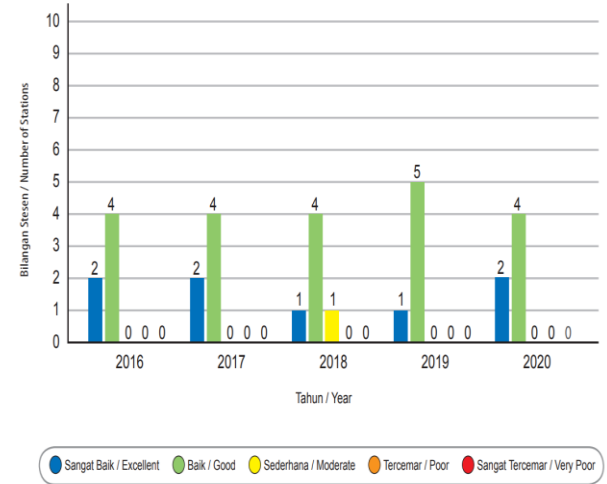
**Groundwater QI for Urban & Suburban**



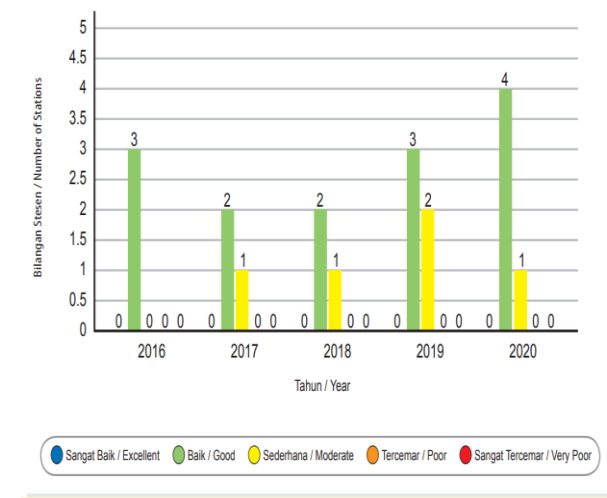
**Groundwater QI for Industrial Sites**



**Groundwater QI for Used Solid Waste Landfills**

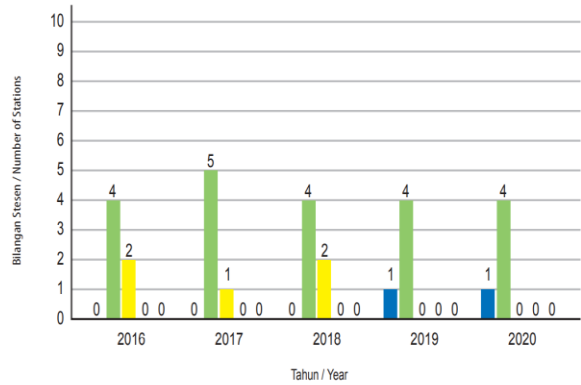


**Groundwater QI for Golf Courses**



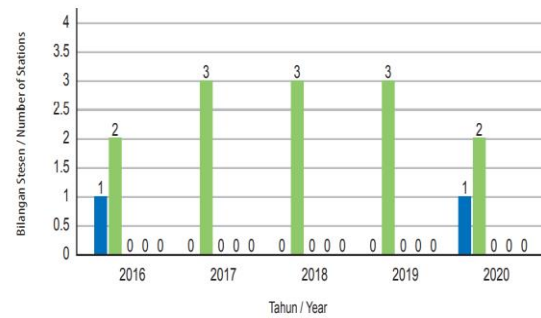
**Groundwater QI for Rural**

# Overview – Environment – Water Quality



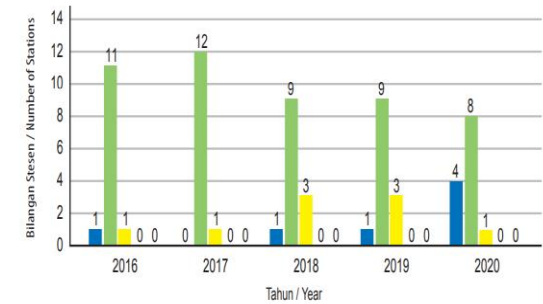
● Sangat Baik / Excellent ● Baik / Good ● Sederhana / Moderate ● Tercemar / Poor ● Sangat Tercemar / Very Poor

Groundwater QI for Used Mining (Gold Mine)



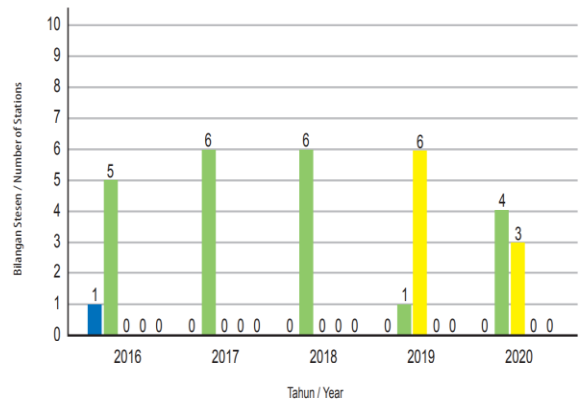
● Sangat Baik / Excellent ● Baik / Good ● Sederhana / Moderate ● Tercemar / Poor ● Sangat Tercemar / Very Poor

Groundwater QI for Water Supply



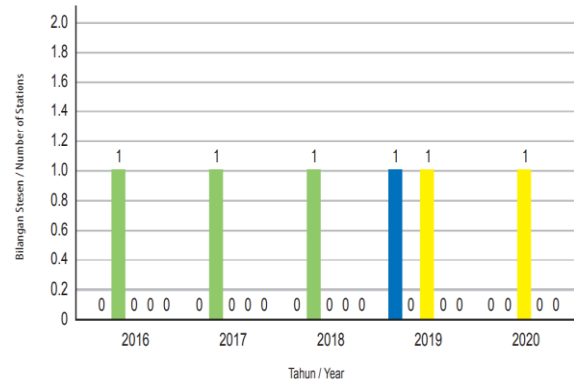
● Sangat Baik / Excellent ● Baik / Good ● Sederhana / Moderate ● Tercemar / Poor ● Sangat Tercemar / Very Poor

Groundwater QI for Used Animal Burial Sites



● Sangat Baik / Excellent ● Baik / Good ● Sederhana / Moderate ● Tercemar / Poor ● Sangat Tercemar / Very Poor

Groundwater QI for Aquaculture



● Sangat Baik / Excellent ● Baik / Good ● Sederhana / Moderate ● Tercemar / Poor ● Sangat Tercemar / Very Poor

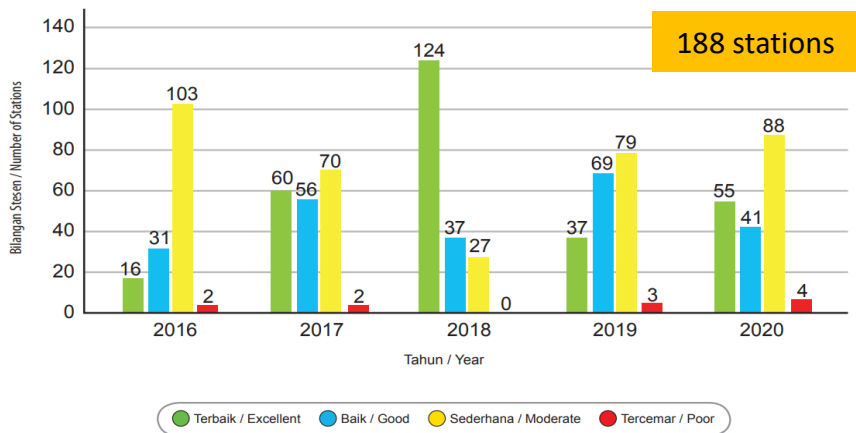
Groundwater QI for Resorts

# Overview – Environment – Water Quality

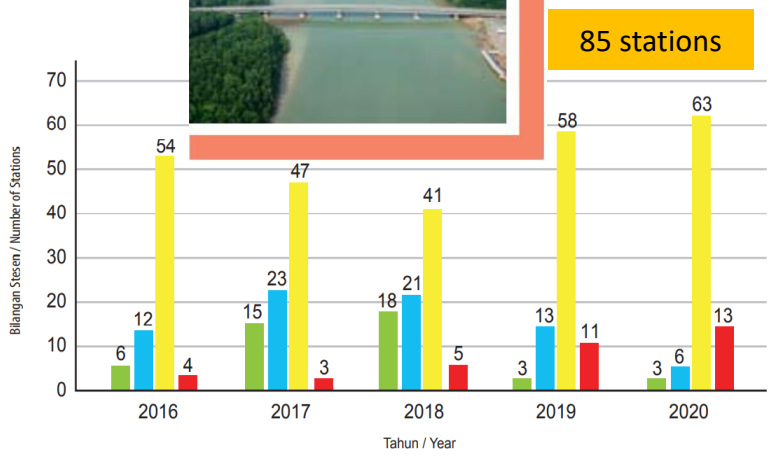
## Marine Water Quality

<b>Excellence</b>	<b>90 – 100</b>
<b>Good</b>	<b>80 – 90</b>
<b>Moderate</b>	<b>50 - 80</b>
<b>Poor</b>	<b>0 – 50</b>

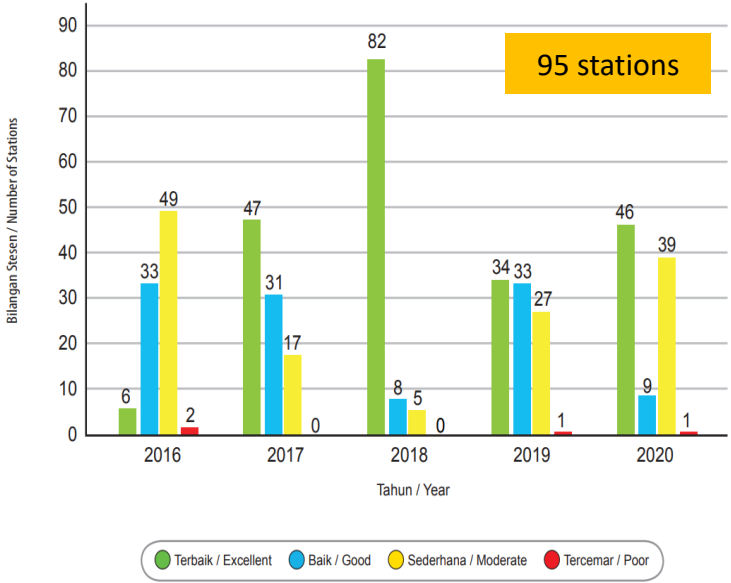
### 1 Stesen Pantai Coastal Stations



### 2 Stesen Muara Sungai Estuary Stations



### 3 Stesen Pulau Island Stations



Rajah 4.8 : Tren Status Kualiti Air Marin bagi Muara Sungai, 2016-2020  
Figure 4.8 : The Trend of Marine Water Quality Status for Estuaries, 2016-2020

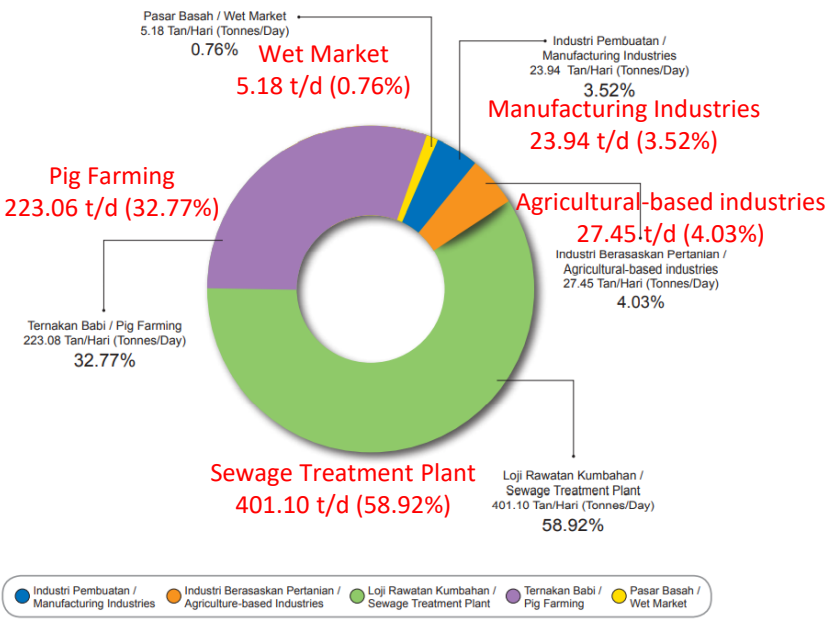
Rajah 4.9 : Tren Status Kualiti Air Marin bagi Pulau, 2016-2020  
Figure 4.9 : The Trend of Marine Water Quality Status for Islands, 2016-2020

# Overview – Environment – Water Pollution (2020)

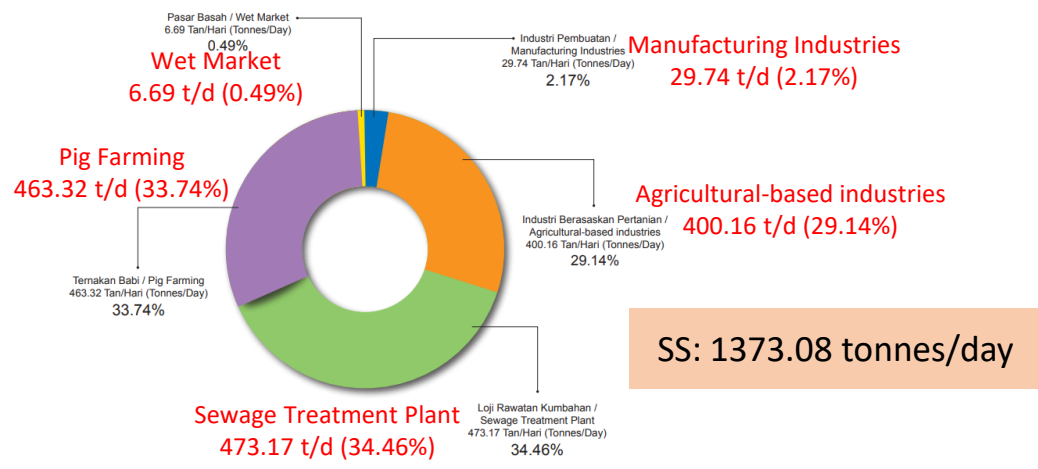
Calculations on water pollution load are mainly focused on:

- Biochemical Oxygen Demand (BOD)
- Suspended Solids (SS)
- Ammoniacal Nitrogen (AN)

**BOD: 680.75 tonnes/day**

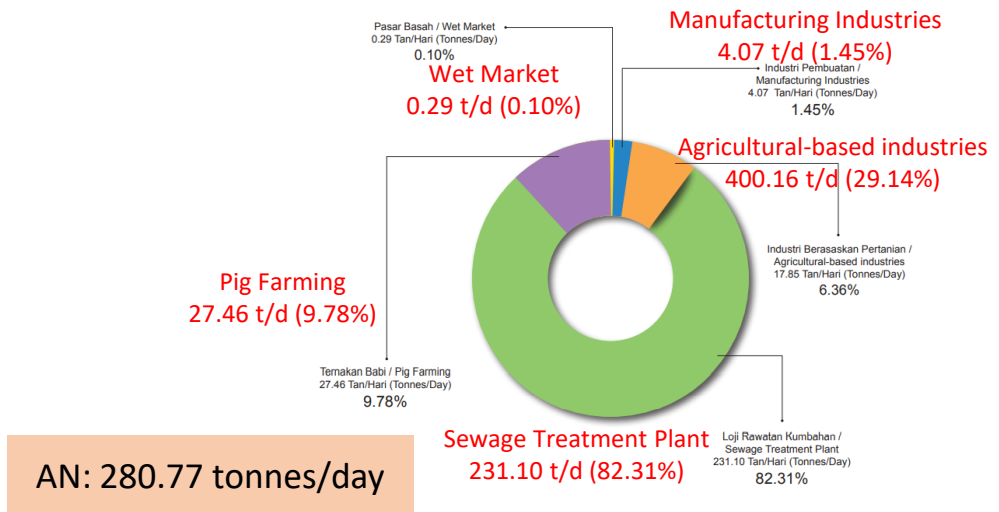


Rajah 5.1 : Anggaran Beban BOD (Tan/Hari) mengikut Punca Pencemaran Air, 2020  
Figure 5.1 : Estimation of BOD Load (Tonnes/Day) by Sources of Water Pollution, 2020



**SS: 1373.08 tonnes/day**

Rajah 5.2 : Anggaran Beban SS (Tan/Hari) mengikut Punca Pencemaran Air, 2020  
Figure 5.2 : Estimation of SS Load (Tonnes/Day) by Sources of Water Pollution, 2020



**AN: 280.77 tonnes/day**

Rajah 5.3 : Anggaran Beban AN (Tan/Hari) mengikut Punca Pencemaran Air, 2020  
Figure 5.3 : Assessment of AN Load (Tonnes/Day) by Sources of Water Pollution, 2020



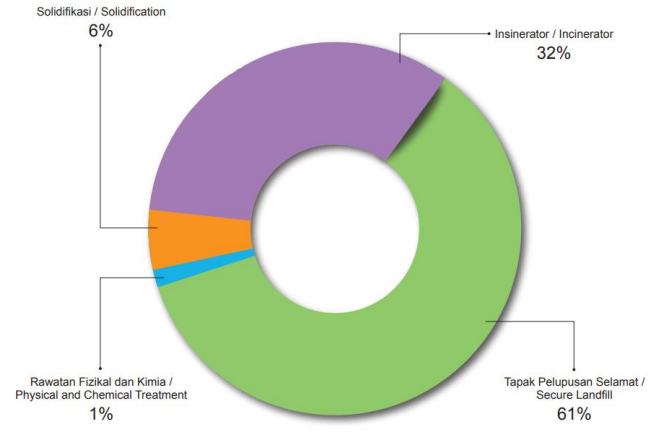
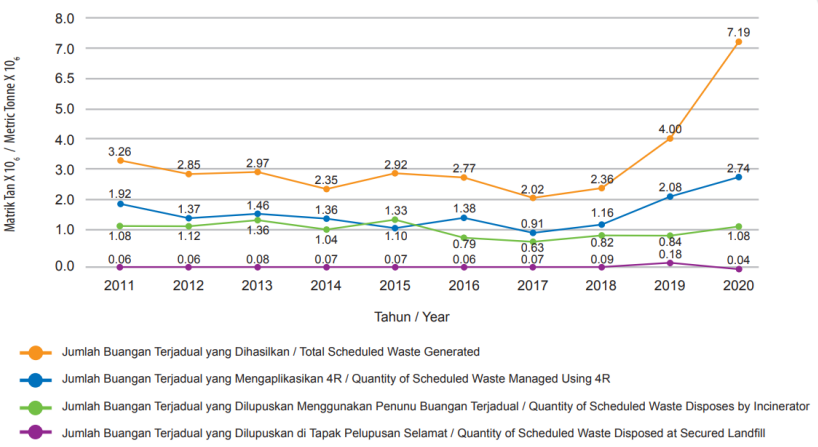
# Overview

## Environment – Pollutions

# Overview – Environment – Scheduled Waste (2020)

Scheduled waste (SW) sent to licensed premises:

- Kualiti Alam Sdn. Bhd. and
- Trienekens (Sarawak) Sdn. Bhd.]



The wastes were either

- Incinerated (32%)
- treated physically and chemically (1%),
- solidified (6%), or
- disposed of in a secured landfill (61%).

Rajah 5.17 : Trend Pengurusan Buangan Terjadual, 2011-2020  
Figure 5.17 : Scheduled Waste Management Trend, 2011-2020

7,185,227.76 mt  
- SW generated in year 2020

2,168,426.92 mt (30.18%)  
– SW managed under Special Management

Table 5.3 : Facilities Handling Scheduled Wastes, 2020

BIL / NO	KEMUDAHAN / FACILITIES	(MT/TAHUN) / (MT/YEAR)	PERATUSAN (%) / PERCENTAGE (%)
1	Pengurusan Khas / Special Waste Management	2,168,426.92	30.18
2	Pengolahan Dalam Tapak / On-Site Treatment	1,104,481.07	15.37
3	Kemudahan Pemerolehan Kembali Luar Tapak Tempatan / Local Off-Site Recovery Facilities	546,290.52	7.60
4	Penstoran Dalam Tapak / On-Site Storage	2,983,676.57	41.53
5	Kualiti Alam Sdn Bhd	142,479.00	1.98
6	Kemudahan Buangan Klinikal (Penunu Buangan Klinikal, Gelombang Mikro dan Tapak Pelupusan Selamat) / Off-Site Clinical Waste Facilities (Incinerator, Microwave and Secured Landfill)	39,883.32	0.56
7	Kemudahan Luar Negara (Ekspot) / Foreign Facilities (Export)	168,001.594	2.34
8	Trienekens (Sarawak) Sdn Bhd	31,988.77	0.45
<b>JUMLAH / TOTAL</b>		<b>7,185,227.76</b>	<b>100.00</b>

Trienekens : Jenis Rawatan dan Pelupusan Buangan Terjadual, 2020  
Trienekens : Types of Scheduled Waste Treatment and Disposal, 2020

# Environmental Activities

# Environmental activities

## 100 million Tree-Planting Campaign 2021-2025

- Launched in January 2021
- Part of the Greening Malaysia programme

An effort to conserve the country's biodiversity while improving the quality of the natural environment and rivers

# Environmental Activities



## PROGRAM PENGUMPULAN BAHAN BUANGAN ELEKTRIK DAN ELEKTRONIK (E-WASTE)

SEMPENA SAMBUTAN HARI OZON SEDUNIA 2022  
TEMA: Montreal Protocol@35: global cooperation protecting life on earth

**TARIKH:**  
**24 SEPTEMBER 2022 (SABTU)**

**TEMPAT:**  
**SABASUN HYPERUNCIT GONG BADAQ**

**MASA:**  
**9:00 PG-1:00 TGH**

**E-WASTE DIKITAR BUMI TERPELIHARA**

**E-waste ditukar dengan wang tunai**

BOLEH HUBUNGI:  
SABASUN HYPERuncit: 014-8205815 -AFIQAH  
KT WAN RECYCLE: 017-9475250- MUTALIB

JABATAN ALAM SEKITAR  
"Alam Sekitar, Tanggungjawab Bersama"



## KEMPEN PENGUMPULAN BUANGAN ELEKTRIK & ELEKTRONIK KT WAN RECYCLE

 RM 5 Laptop	 RM 3 Desktop Monitor	 RM 7 Desktop CPU	 RM 1 Mobile Phone
 RM 1 Smart Phone	 RM 1 Tab	 RM 1 Camera	 RM 0.05 Keyboard / Mouse
 RM 1 Projector	 RM 3 CRT / LCD Television	 RM 1 & RM 2 Printer / Scanner	 RM 4 Washing Machine
 RM 1 Air Conditioner (compressor & blower)	 RM 5 Refrigerator	 RM 1 Small Household Appliances	 RM 1 Small Household Appliances

*"E-Waste Dikitir, Bumi Terpelihara"*

# Environmental Incident

# Environmental incident

## Pulau Burung – Rubbish Degradation Area



First fire a fire broke out involving 11.3 hectares (ha) out of a total of 16.2 ha, and it took nearly a month before the fire was doused.

The fire also resulted in the area being declared as a Level 1 disaster area based on the National Security Council (MKN).

Following the incident, 86 families with about 400 residents living nearby had to be evacuated to ensure their safety, while 10 schools were also closed for three days (12 Jan 2022)

Second fire with blaze covering 40,000 square feet (23 May 2022)



Release blackish water from water retention pool to mangrove forest and subsequently to sea (21 Sept 2022)



# Safety



# Overview - Safety

## National Occupational Accident & Fatality Rate

Year	2014	2015	2016	2017	2018	2019	2020	2021
Accident Rate per 1,000 worker	3.10	2.81	2.88	2.93	2.40	2.71	2.18	1.43
Fatality Rate per 100,000 workers	4.21	4.84	4.84	4.90	4.14	3.83	2.09	2.00

# Overview - Safety

## Occupational accident statistics by sector, year 2021

### OCCUPATIONAL ACCIDENT STATISTICS BY SECTOR UNTIL DECEMBER 2021 (REPORTED TO DOSH ONLY)

SECTOR	NPD	PD	DEATH	TOTAL
Hotel and Restaurant	125	1	0	126
Utilities (Electricity, Gas, Water and Sanitary Service)	198	1	8	207
Finance, Insurance, Real Estate and Business Services	264	4	17	285
Construction	147	5	65	217
Transport, Storage and Communication	281	5	6	292
Manufacturing	4015	206	48	4269
Wholesale and Retail Trade	182	3	2	187
Public Services and Statutory Authorities	68	2	4	74
Mining and Quarrying	44	4	8	56
Agriculture, Forestry and Fishery	939	18	16	973
<b>TOTAL</b>	<b>6263</b>	<b>249</b>	<b>174</b>	<b>6686</b>

#### LEGEND:

PD - PERMANENT DISABILITY

NPD- NON PERMANENT DISABILITY

Source: International Policy and Research Development Division

# Overview - Safety

Occupational accident statistics by sector, year 2022 (January to August)

## OCCUPATIONAL ACCIDENT STATISTICS BY SECTOR UNTIL AUGUST 2022 (REPORTED TO DOSH ONLY)

SECTOR	NPD	PD	DEATH	TOTAL
Hotel and Restaurant	80	1	0	81
Utilities (Electricity, Gas, Water and Sanitary Service)	138	2	8	148
Finance, Insurance, Real Estate and Business Services	270	4	17	291
Construction	77	1	51	129
Transport, Storage and Communication	178	2	9	189
Manufacturing	3447	142	48	3637
Wholesale and Retail Trade	97	1	2	100
Public Services and Statutory Authorities	62	3	0	65
Mining and Quarrying	22	1	7	30
Agriculture, Forestry and Fishery	663	18	15	696
<b>TOTAL</b>	<b>5034</b>	<b>175</b>	<b>157</b>	<b>5366</b>

LEGEND:

PD - PERMANENT DISABILITY

NPD- NON PERMANENT DISABILITY

Source: International Policy and Research Development Division

# Occupational Safety and Health Master Plan 2021-2025

Based on the confidence that safe and healthy work culture can further increase the well-being of employers, employees and the country, therefore the **OSHMP25 five -(5) year plan** focuses efforts to reduce accident and death rates to **2.13 accidents for every 1,000 employees and 2.93 deaths for every 100,000 employees by 2025**. This OSH master plan will also continue its target of increasing occupational diseases and poisoning reporting as much as 30% by 2025

## OSHMP 2025 Lagging Indicator



### DEATH RATE

To reduce the occupational death rate to **2.93** deaths for every 100,000 employees in 2025.



### ACCIDENT RATE

To reduce the occupational accident rate to **2.13** accidents for every 1,000 employees in 2025.



### DISEASE REPORTING

Increase in occupational diseases and poisoning reporting as much as 30% in 2025.

# Occupational Safety and Health Master Plan 2021-2025

## Implementation Concept Model



4 Objectives

7 Strategic Thrusts (Outcomes)

25 Programs