



PENANG IN NUMBERS

Green Data



✉ info@pgc.com.my

🌐 www.pgc.com.my/penang-green-data

☎ 04-250 3322

📘 [pggreencouncil](https://www.facebook.com/pggreencouncil)

PENANG IN NUMBERS – GREEN DATA

Green Data is a selected compilation of environmental conscious data series of Penang state that accommodates the Sustainable Development Goals that aims to act as a data reference that assisted Penang Green Council in the formulation process of the Penang Green Agenda 2030 and also made accessible for public use. The chosen 8 SDGs would be as below:

- **Goal 2 – Zero Hunger**
- **Goal 6 – Water**
- **Goal 7 – Energy**
- **Goal 11 – Sustainable Cities**

- **Goal 12 – Responsible Consumption and Production**
- **Goal 13 – Climate Action**
- **Goal 14 – Marine**
- **Goal 15 – Biodiversity.**

These data are collected from various sources; they will be updated from time to time for the use and view of general public as well as to serve as a reference for government departments, agencies, students and stakeholders for the development of Penang. We have identified 80 data sets for Penang so far that we think is useful for Penang to be a green and liveable city. Be reminded that, we will not confine the Sustainability Indicators of Penang within this 80 data, we will discover more relevant data in future and it will be updated again. Finally, we would like to convey our gratitude to all agencies that have contributed to this Green Data.

GOAL 14 – MARINE

Description:

Surrounded by water all around, either on island or on mainland Penang, we are blessed with great diversity of marine life, including fishes and seafood for consumption. Protecting our marine and coastal ecosystem will also protect our food. Pollution from land into the sea, fish stock overexploitation, and ecosystem degradation are few bits of the big picture we need to focus on.

List of Indicators

1. Fish Landing, Penang 2010-2018
2. Number of licensed fishing vessels, Penang 2010 - 2020
3. Number of fishermen working on licensed fishing vessels, Penang 2010 – 2020
4. Total coastal length , Penang, 2017 - 2018
5. Status of marine water quality at coastal areas based on Marine Water Quality Index, Malaysia, 2015-2017
6. Status of marine water quality at estuary areas based on Marine Water Quality Index, Malaysia, 2015-2017
7. Status of marine water quality at island areas based on Marine Water Quality Index, Malaysia, 2015-2017

1 Fish Landing, Penang 2010-2018

Year	Fish	Prawn	Trash Fish	Cockles	Squid	Crab	Total
2010	23,155.10	6,756.81	13,715.11	9,460.32	NA	NA	53,087.34
2011	37,707.29	10,125.51	13,737.84	NA	NA	NA	61,570.64
2012	28,179.99	9,391.26	14,914.16	NA	NA	NA	52,485.41
2013	23,235.73	7,770.99	11,512.96	NA	NA	NA	42,519.68
2014	26,065.93	9,876.27	8,529.82	7,336.03	NA	NA	51,808.05
2015	27,550.00	9,261	11,225	NA	1,088	536	49,660.00
2016	33,137.00	9,537	11,906	850.21	705	998	57,133.21
2017	22,175.00	8,251	16,494	2,260.89	568	556	50,304.89
2018	21,689.00	5,828	24,502	NA	1,529	757	54,305.00

I. Source : Penang Institute data

II. NA – Not Available

2 Number of licensed fishing vessels, Penang 2010 – 2020

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Number of licensed fishing vessels	3,358	2,887	2,870	3,089	3,662	2,707	2,905	2,900	NA	2,422	2,344

I. Source : Department of Statistic (e-statistik portal)

II. NA – Not Available

3 Number of fishermen working on licensed fishing vessels, Penang 2010 – 2020

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Number of fishermen working on licensed fishing vessels	6,071	5,633	5,548	7,011	8,009	5,567	4,973	4,996	4,974	4,695	4,798

I. Source : Department of Statistic (e-statistik portal)

II. NA – Not Available

4 Total Coastal Length. Penang 2017 -2018

Year	Coastal Length (km)
2017	215.6
2018	215.6

I. Compendium of Environment Statistic 2018,2019

5 Status of marine water quality at coastal areas based on Marine Water Quality Index, Malaysia, 2015-2017

Number of stations

State	Category															
	2015				2016				2017				2018			
	E	G	M	P	E	G	M	P	E	G	M	P	E	G	M	P
Total	9	54	86	2	16	31	103	2	60	56	70	2	124	37	27	-
Johor	1	12	12	-	1	19	4	1	21	3	5	-	20	3	6	-
Kedah	-	1	7	-	-	-	8	-	5	3	1	-	8	1	-	-
Kelantan	-	-	5	-	-	-	5	-	1	5	-	-	6	-	-	-
Melaka	-	1	5	-	-	-	6	-	-	4	5	-	2	4	3	-
Negeri Sembilan	4	6	2	-	12	-	-	-	-	3	11	-	6	4	4	-
Pahang	1	9	10	-	-	4	16	-	10	5	7	-	16	4	2	-
Perak	-	-	5	-	-	-	5	-	7	1	-	-	8	-	-	-
Pulau Pinang	-	-	12	2	-	3	10	1	-	3	13	1	5	2	10	-
Sabah	-	15	9	-	-	-	24	-	-	5	18	1	24	-	-	-
Sarawak	3	8	5	-	2	5	9	-	1	20	2	-	7	15	1	-
Selangor	-	2	2	-	1	-	3	-	2	1	3	-	2	3	1	-
Terengganu	-	-	7	-	-	-	8	-	13	3	-	-	15	-	-	-
W.P. Labuan	-	-	5	-	-	-	5	-	-	-	5	-	5	-	-	-

- I. Source : Compendium of Environment Statistic 2019
- II. No marine water quality stations in the coastal areas of Perlis, W.P. Kuala Lumpur and W.P. Putrajaya
- III. Marine Water Quality Index Classification

Category / Index Value

E/Excellent(90-100)

G/Good (80 - <90)

M/ Moderate (50 - <80)

P/Poor (0 - <50)

6 Status of marine water quality at estuary areas based on Marine Water Quality Index, Malaysia, 2015-2017

Number of stations

State	Category															
	2015				2016				2017				2018			
	E	G	M	P	E	G	M	P	E	G	M	P	E	G	M	P
Jumlah	6	12	54	4	6	12	54	4	15	23	47	3	18	21	41	5
<i>Total</i>																
Johor	-	5	4	-	-	5	3	1	3	-	5	1	1	1	3	1
Kedah	-	-	2	-	-	-	2	-	-	1	3	-	-	2	2	-
Kelantan	-	-	5	-	-	-	5	-	-	3	3	-	-	1	5	-
Melaka	-	1	4	-	-	-	6	-	-	4	4	-	-	3	5	-
Negeri Sembilan	-	1	1	-	2	-	-	-	-	-	2	-	-	-	2	-
Pahang	-	-	-	-	-	-	-	-	2	1	2	-	2	-	3	-
Perak	-	-	6	-	-	-	6	-	-	2	4	-	1	2	3	-
Perlis	-	-	2	-	-	-	2	-	-	-	2	-	-	-	2	-
Pulau Pinang	-	-	4	3	-	-	5	2	-	-	5	2	-	-	5	2
Sabah	-	1	1	-	-	-	1	1	-	1	1	-	2	-	-	-
Sarawak	4	3	6	-	3	4	6	-	-	7	7	-	2	8	4	-
Selangor	2	1	7	-	1	3	6	-	3	2	5	-	1	3	4	2
Terengganu	-	-	12	1	-	-	12	-	7	2	4	-	9	1	3	-

- I. Source : Compendium of Environment Statistic 2019
- II. No marine water quality stations in the coastal areas of Perlis, W.P. Kuala Lumpur and W.P. Putrajaya
- III. Marine Water Quality Index Classification

Category / Index Value

E/Excellent(90-100)

G/Good (80 - <90)

M/ Moderate (50 - <80)

P/Poor (0 - <50)

7 Status of marine water quality at island areas based on Marine Water Quality Index, Malaysia, 2015-2017

Number of stations

State	Category															
	2015				2016				2017				2018			
	E	G	M	P	E	G	M	P	E	G	M	P	E	G	M	P
Jumlah	3	24	62	1	6	33	49	2	47	31	17	-	82	8	5	-
Total																
Johor	1	7	-	-	2	6	-	-	8	-	-	-	7	1	-	-
Kedah	-	1	10	-	-	-	11	-	13	-	1	-	13	1	-	-
Kelantan	-	-	2	-	-	-	2	-	-	2	-	-	2	-	-	-
Melaka	-	-	6	-	-	-	6	-	3	2	1	-	4	2	-	-
Negeri Sembilan	1	-	-	-	1	-	-	-	-	-	1	-	1	-	-	-
Pahang	-	4	5	-	-	7	2	-	9	-	-	-	9	-	-	-
Perak	-	-	5	-	-	-	5	-	3	2	-	-	5	-	-	-
Pulau Pinang	-	-	6	1	-	1	4	2	-	2	7	-	2	3	4	-
Sabah	-	11	6	-	-	17	-	-	-	14	3	-	17	-	-	-
Sarawak	1	1	1	-	2	-	1	-	-	3	-	-	3	-	-	-
Selangor	-	-	3	-	1	2	-	-	-	2	1	-	1	1	1	-
Terengganu	-	-	11	-	-	-	11	-	8	3	-	-	11	-	-	-
W.P. Labuan	-	-	7	-	-	-	7	-	3	1	3	-	7	-	-	-

- I. Source : Compendium of Environment Statistic 2019
- II. No marine water quality stations in the coastal areas of Perlis, W.P. Kuala Lumpur and W.P. Putrajaya
- III. Marine Water Quality Index Classification

Category / Index Value

E/Excellent(90-100)

G/Good (80 - <90)

M/ Moderate (50 - <80)

P/Poor (0 - <50)