

# PENANG STATISTICS

## QUARTER 4, 2018



**PENANG**  
INSTITUTE  
making ideas work

10 Brown Road, 10350 George Town, Penang  
Tel: (04) 228 3306 | Fax: (04) 226 7042  
E-mail: [enquiry@penanginstitute.org](mailto:enquiry@penanginstitute.org)  
Website: [www.penanginstitute.org](http://www.penanginstitute.org)

## Preface

*Penang Statistics* is published once every three months. Initiated in 1999, this series collates data provided by government departments and private organisations at state and national level, for the use of policymakers, researchers, academics and investors. The statistics found herein are Penang-relevant, but key national economic statistics are also included, covering the areas of agriculture, fisheries, livestock, manufacturing, water, electricity, telecommunications, property, tourism, logistics, health and education.

This publication is divided into the following categories:

1. The demography of Penang by sex, ethnicity and distribution;
2. Key state economic indicators such as Gross Domestic Product (GDP) and inflation rate;
3. Economic activities, namely primary sector (agriculture, livestock and fisheries) secondary sector (manufacturing) and tertiary sector (utilities, transport, trade, logistics, tourism, property, education, health and education); and
4. Selected national statistics.

Penang Institute would like to thank all state and federal government departments as well as private organisations for their continuous support and assistance in contributing to the success of *Penang Statistics*. It is also hoped that this publication can act as a baseline guide for primary research that will keep policymakers informed of the latest trends affecting Penang.

# Table of Contents

<b>PHYSICAL ATTRIBUTES .....</b>	<b>.3</b>
<b>DEMOGRAPHY .....</b>	<b>.3</b>
Penang: Estimated Population (in '000) and Distribution by Districts, 2013 – 2017 .....	.3
Penang: Estimated Population by Sex (in '000), 2014 – 2018 .....	.3
Penang: Estimated Population by Ethnic Group (in '000), 2014 – 2018 .....	.4
<b>ECONOMIC .....</b>	<b>.4</b>
Penang: Gross Domestic Product (In 2010–Constant Prices), 2014 – 2017 .....	.4
Penang: Consumer Price Index (2010=100), Jul – Dec 2018 .....	.5
<b>PRIMARY SECTOR.....</b>	<b>.6</b>
AGRICULTURE .....	.6
Penang: Agriculture Land Use by Crops (hectares), 2009 – 2017 .....	.6
LIVESTOCK.....	.6
Penang: Livestock Production, 2009 – 2018 .....	.6
Penang: Production and Value of Livestock, 2017 & 2018 .....	.7
FISHERIES .....	.7
Penang: Landing Types, Jan – Dec 2018.....	.7
<b>SECONDARY SECTOR .....</b>	<b>.8</b>
MANUFACTURING.....	.8
Penang: Approved Manufacturing Projects by Industry, Jan – Sep 2018 .....	.8
Approved Manufacturing Projects by State, Jan – Sep 2018 .....	.9
<b>TERTIARY SECTOR .....</b>	<b>.9</b>
<b>UTILITIES .....</b>	<b>.9</b>
WATER .....	.9
Penang: Water Production and Consumption (Million Litres), 2010 – 2018 .....	.9
Penang: Daily Water Supply and Consumption, 2017 and 2018.....	.10
ELECTRICITY .....	.10
Penang: Power Demand & Supply, 2006 – 2018 .....	.10
TELECOMMUNICATIONS .....	.11
Direct Exchange Line (DEL) Penetration Rate per 100 Household by State, Q1 2017 – Q4 2018 .....	.11
Mobile Cellular Penetration Rate per 100 Inhabitants by State, 2014 – 2017 .....	.11
Broadband Penetration Rate per 100 Inhabitants by State, Q1 2017 – Q4 2018 .....	.12
<b>TRANSPORT .....</b>	<b>.12</b>
ROAD TRANSPORT .....	.12
New Motor Vehicle Registration, Jan - Sep 2018.....	.12
<b>TRADE .....</b>	<b>.13</b>
TRADE BALANCE .....	.13
Export, Import and Balance of Trade, Jan – Dec 2018 (RM million) .....	.13
<b>LOGISTICS.....</b>	<b>.14</b>
PENANG AIRPORT .....	.14
Passenger Movements (Domestic & International), Jan – Dec 2018.....	.14
Aircraft Movements (Arrival & Departure), Jan – Dec 2018.....	.15
Cargo Handled (Domestic & International), Jan – Dec 2018.....	.15
PENANG PORT .....	.16
Number of Ship Calls, Jan – Dec 2018 .....	.16
Gross Registered Tonnage (Domestic & Foreign), Jan – Dec 2018.....	.16
Type of Cargo Handled, Jan – Dec 2018 .....	.17
<b>TOURISM .....</b>	<b>.17</b>
Penang: Average Occupancy Rate, Jul – Dec 2018 .....	.17
<b>PROPERTY.....</b>	<b>.18</b>

Penang: House Price Index, Q1 2013 – Q3 2018 .....	18
Penang: Number of Transactions by Price Range for the Principal Property Sub-Sectors .....	19
Penang: Value of Transactions (RM million) by Price Range for the Principal Property Sub-Sectors.....	20
<b>EDUCATION .....</b>	<b>21</b>
Penang: Number of Schools, Students & Teachers at the Pre-School Level, 2018.....	21
Penang: Number of Schools, Students & Teachers at the Primary Level, as of Jun 2018 .....	21
Penang: Number of Schools, Students & Teachers at the Secondary Level, as of Jun 2018.....	21
Penang: Number of Students Taking Public Exams and Passing Rates, 2013 & 2014 .....	21
<b>HEALTH .....</b>	<b>22</b>
Penang: Life Expectancy at Birth, 2010 – 2018 .....	22
Penang: Health Manpower, 2016 – 2017.....	22
Penang: Number of Beds, Bed Occupancy Rate (BOR) & Average Length of Stay (ALOS) for Government Hospitals, 2016 – 2017.....	23
Penang: 10 Principal Causes of Deaths* in Government Hospitals, 2017.....	23
<b>SELECTED NATIONAL STATISTICS.....</b>	<b>24</b>
Malaysia: Gross Domestic Product by Sector, Q4 2017 – Q4 2018 .....	24
Malaysia: Currency Exchange Rates, Jan – Dec 2018 .....	25
Malaysia: National Indices and Employment Data, Q4 2018 .....	25
Malaysia: Federal Government Accounts, 2012 – 2017 .....	26
Malaysia: Producer Price Index (2010=100), Oct – Dec 2018 .....	26
Malaysia: Consumer Price Index (2010=100), Jul – Dec 2018 .....	27
Malaysia: Industrial Production Index (2015=100), Jan – Dec 2018.....	28

## PHYSICAL ATTRIBUTES

AREA		
	<b>State of Penang</b>	<b>1,032 sq. km</b>
	Timur Laut	119 sq. km
	Barat Daya	173 sq. km
	Seberang Perai Utara (Butterworth)	263 sq. km
	Seberang Perai Tengah (B.Mertajam)	236 sq. km
	Seberang Perai Selatan (Nibong Tebal)	241 sq. km
LOCATION		
	Latitudes	5° 19'
	Longitudes	100° 19'

Note: The data is updated in 2017

Source: Department of Statistics, Malaysia

## DEMOGRAPHY

Penang: Estimated Population (in '000) and Distribution by Districts, 2013 – 2017

District	2013	2014	2015	2016	2017
Timur Laut	531.40	533.30	535.20	566.90	572.50
Barat Daya	211.90	214.70	217.60	224.90	228.00
Seberang Perai Utara	305.60	308.10	310.70	327.40	331.90
Seberang Perai Tengah	387.70	391.40	395.10	417.40	422.90
Seberang Perai Selatan	191.80	198.10	204.40	189.10	191.40
<b>Penang</b>	<b>1,628.40</b>	<b>1,645.70</b>	<b>1,663.00</b>	<b>1,725.80</b>	<b>1,746.70</b>

Note: Mid-Year Population Estimates (from 2013-2015) and Revised Population Projections (for 2016 and 2017) based on data sourced from the 2010 Population and Housing Census, Malaysia. Slight discrepancies may occur due to rounding.

Source: Department of Statistics, Malaysia

Penang: Estimated Population by Sex (in '000), 2014 – 2018

Gender	2014	2015	2016	2017	2018e
Male	845.3	855.2	864.6	877.1	883.8
Female	832.8	842.9	853.0	867.0	883.0
<b>Total</b>	<b>1,678.1</b>	<b>1,698.1</b>	<b>1,717.7</b>	<b>1,744.1</b>	<b>1,766.8</b>

e: Estimate

Note: The mid-year population estimates are based on the adjusted data from the 2010 Population and Housing Census, Malaysia. Slight discrepancies may occur due to rounding.

Source: Population Quick Info, Department of Statistics, Malaysia

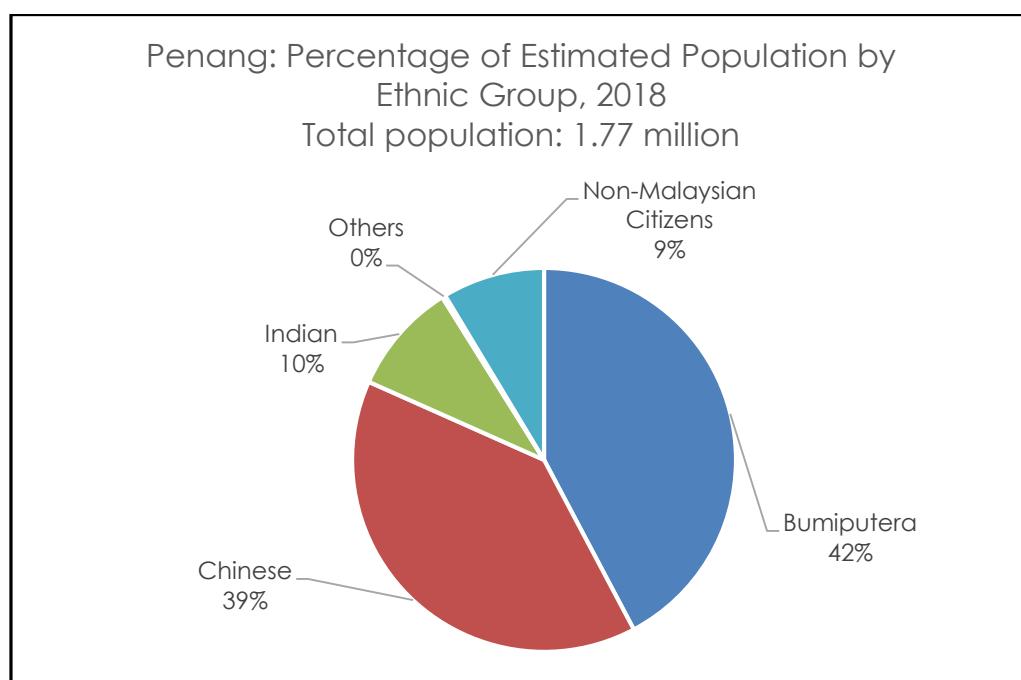
## Penang: Estimated Population by Ethnic Group (in '000), 2014 – 2018

Ethnic Group	2014	2015	2016	2017	2018e
<b>Malaysian Citizens</b>	<b>1,543.5</b>	<b>1,556.9</b>	<b>1,571.4</b>	<b>1,593.8</b>	<b>1,614.5</b>
Bumiputera	693.1	701.6	711.8	728.6	746.5
Chinese	683.5	685.8	688.9	694.2	696.4
Indian	161.9	164.3	165.7	166.1	166.6
Others	5.0	5.2	5.0	5.0	5.0
<b>Non-Malaysian Citizens</b>	<b>134.5</b>	<b>141.2</b>	<b>146.3</b>	<b>150.3</b>	<b>152.3</b>
<b>Total</b>	<b>1,678.1</b>	<b>1,698.1</b>	<b>1,717.7</b>	<b>1,744.1</b>	<b>1,766.8</b>

e: Estimate

Note: The mid-year population estimates are based on the adjusted data from the 2010 Population and Housing Census, Malaysia. Slight discrepancies may occur due to rounding.

Source: Population Quick Info, Department of Statistics, Malaysia



Source: Department of Statistics, Malaysia

## ECONOMIC

### Penang: Gross Domestic Product (In 2010–Constant Prices), 2014 – 2017

Sector	RM million				% change		
	2014	2015	2016	2017	2015	2016	2017
Agriculture	1,521	1,551	1,507	1,540	2.0	-2.8	2.2
Mining & Quarrying	52	54	59	63	4.4	8.7	6.2
Manufacturing	29,197	31,197	32,895	34,759	6.9	5.4	5.7
Construction	2,135	2,064	2,278	2,045	-3.3	10.4	-10.1
Services	32,787	34,313	36,246	38,312	4.7	5.6	5.6
<b>GDP</b>	<b>66,203</b>	<b>69,825</b>	<b>73,718</b>	<b>77,641</b>	<b>5.5</b>	<b>5.6</b>	<b>5.3</b>

Note: Slight discrepancies may occur due to rounding.

Source: Department of Statistics, Malaysia

Penang: Consumer Price Index (2010=100), Jul – Dec 2018

Period	All groups	Food & non-alcoholic beverages	Alcoholic beverages & tobacco	Clothing & footwear	Housing, water, electricity, gas & other fuels	Furnishings, household equipment & routine	Health	Transport	Communication	Recreation services and culture	Education	Restaurant & hotels	Miscellaneous goods and services
<b>2017</b>													
Jul	<b>120.4</b>	133.8	160.5	97.3	118.7	115.1	127.5	109.2	96.0	109.8	118.3	129.8	118.7
Aug	<b>121.1</b>	134.1	160.9	97.4	118.7	115.0	127.6	114.7	96.0	109.7	118.3	129.9	118.6
Sep	<b>121.5</b>	134.3	161.0	97.8	118.7	115.2	127.5	117.1	96.0	109.6	118.3	129.8	118.8
Oct	<b>121.4</b>	133.9	161.2	97.7	118.7	115.2	127.8	116.7	96.0	109.6	118.3	129.8	118.7
Nov	<b>122.0</b>	134.1	161.6	97.5	119.0	114.9	127.6	120.8	96.0	109.9	118.3	129.9	118.7
Dec	<b>122.1</b>	135.1	161.2	97.4	119.0	114.9	127.8	119.8	96.0	110.2	118.3	130.1	118.2
<b>2018</b>													
Jul	<b>120.9</b>	134.1	159.1	94.6	119.4	112.7	126.9	116.7	92.9	106.8	118.3	130.2	116.3
Aug	<b>121.3</b>	134.4	158.9	94.9	120.5	112.7	127.1	116.8	92.8	106.8	118.3	130.3	116.1
Sep	<b>121.9</b>	134.9	159.0	95.0	120.6	113.5	126.7	116.9	95.1	110.0	118.1	131.1	117.5
Oct	<b>122.2</b>	135.5	160.6	95.1	120.6	113.9	126.9	117.3	95.1	110.4	118.3	131.3	117.9
Nov	<b>122.7</b>	135.9	163.5	94.9	121.6	114.1	127.3	117.4	95.1	110.4	118.3	131.3	117.6
Dec	<b>122.8</b>	136.5	163.6	94.9	121.6	114.6	126.8	116.6	95.1	110.8	118.3	131.3	117.8
% change (y-o-y)													
Jul	<b>0.4</b>	0.2	-0.9	-2.8	0.6	-2.1	-0.5	6.9	-3.2	-2.7	0.0	0.3	-2.0
Aug	<b>0.2</b>	0.2	-1.2	-2.6	1.5	-2.0	-0.4	1.8	-3.3	-2.6	0.0	0.3	-2.1
Sep	<b>0.3</b>	0.4	-1.2	-2.9	1.6	-1.5	-0.6	-0.2	-0.9	0.4	-0.2	1.0	-1.1
Oct	<b>0.7</b>	1.2	-0.4	-2.7	1.6	-1.1	-0.7	0.5	-0.9	0.7	0.0	1.2	-0.7
Nov	<b>0.6</b>	1.3	1.2	-2.7	2.2	-0.7	-0.2	-2.8	-0.9	0.5	0.0	1.1	-0.9
Dec	<b>0.6</b>	1.0	1.5	-2.6	2.2	-0.3	-0.8	-2.7	-0.9	0.5	0.0	0.9	-0.3

Source: Department of Statistics, Malaysia

## PRIMARY SECTOR

### AGRICULTURE

Penang: Agriculture Land Use by Crops (hectares), 2009 – 2017

Type	Year								
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Paddy	12,782.0	12,782.0	12,782.0	12,782.0	12,782.0	12,782.0	12,782.0	12,782.0	12,782.0
Fruits	7,149.8	6,926.2	6,921.1	6,085.1	6,706.4	5,298.1	4,816.1	4,714.3	3,660.2
Rubber	10,837.6	10,837.6	10,837.6	10,837.6	10,837.6	NA	NA	NA	NA
Oil Palm	13,504.2	13,595.0	13,864.6	13,864.6	13,480.0	14,204.0	14,447.0	14,135.0	13,563.0
Vegetables	489.4	477.2	477.2	600.6	601.1	690.6	712.3	712.1	688.5
Coconut	1,976.8	1,984.8	1,991.8	1,991.8	1,980.6	493.5	343.9	329.1	278.7
Cocoa	9.4	9.4	8.2	8.2	8.2	2.0	2.0	0.0	0.0
Cash Crops	232.4	273.8	274.11	198.5	207.45	194.62	159.2	216.5	212.6
Spices	249.9	251.2	251.0	180.0	229.5	97.0	136.2	140.3	159.9
Others	41.8	41.8	32.2	35.7	38.0	11.5	9.0	8.8	11.8
<b>Total</b>	<b>47,273.2</b>	<b>47,179.0</b>	<b>47,439.8</b>	<b>46,584.0</b>	<b>46,870.9</b>	<b>33,773.3</b>	<b>33,407.8</b>	<b>33,038.1</b>	<b>31,356.6</b>

Note: Slight discrepancies may occur due to rounding.

NA: Not available

Source: Derived from the data provided by Department of Agriculture, Penang; Penang in Numbers 2014/2015 & 2015/2016, Penang State Economic Planning Division (BPEN); Malaysian Palm Oil Berhad (MPOB); and Rubber Industry Smallholders Development Authority (RISDA)

### LIVESTOCK

Penang: Livestock Production, 2009 – 2018

Type	Year									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Meat ('000 Metric Tonnes)										
Cow & Buffalo	0.98	0.93	0.86	1.66	1.65	4.33	3.21	2.80	2.90	5.00
Goat & Sheep	0.02	0.02	0.02	0.11	0.20	0.26	0.22	0.21	0.25	0.41
Chicken & Duck	55.16	55.16	56.72	79.07	75.69	71.17	69.30	69.81	69.09	81.94
Pig	16.11	15.35	11.18	24.34	31.46	33.44	31.58	30.65	31.47	35.37
<b>Total</b>	<b>72.27</b>	<b>71.46</b>	<b>68.78</b>	<b>105.18</b>	<b>109.00</b>	<b>109.20</b>	<b>104.31</b>	<b>103.47</b>	<b>103.71</b>	<b>122.70</b>

Source: Department of Veterinary Services, Penang

## Penang: Production and Value of Livestock, 2017 & 2018

Commodity/Unit		2017			2018		
		Production	Value	Distribution	Production	Value	Distribution
		(Metric Tonnes)	(RM million)	%	(Metric Tonnes)	(RM million)	%
Meat	Cow, Buffalo	2,891.60	39.04	4.59	4,990.71	64.36	6.85
	Goat, Sheep	249.11	7.55	0.89	409.04	11.45	1.22
	Pig	31,471.80	278.21	32.74	35,367.00	279.40	29.73
	Chicken	69,086.75	438.96	51.65	81,058.34	483.28	51.43
	Duck				877.67	3.69	0.39
	Quail	127.40	2.10	0.25	207.53	3.42	0.36
	Turkey	48.36	1.35	0.16	43.00	1.20	0.13
Eggs	Chicken	235,635,244 quantity	78.53	9.24	239,119,300	81.94	8.72
	Duck				11,470,976	5.51	0.59
Fresh Milk		589,888 litre	4.14	0.49	564,350 litre	5.52	0.59
<b>Total</b>			<b>849.88</b>	<b>100.0</b>		<b>939.77</b>	<b>100.0</b>

Source: Department of Veterinary Services, Penang

## FISHERIES

### Penang: Landing Types, Jan – Dec 2018

	Fish		Prawns		Trash Fish (Ikan Baja)	
	Metric Tonnes	RM (million)	Metric Tonnes	RM (million)	Metric Tonnes	RM (million)
<b>Jan-Dec 2017</b>	<b>21,521.81</b>	<b>230.50</b>	<b>8,215.44</b>	<b>259.17</b>	<b>15,417.98</b>	<b>18.77</b>
Jan	1,977.28	22.30	854.16	31.37	2,042.21	2.54
Feb	1,917.46	22.10	715.06	28.47	1,767.93	2.20
Mar	1,393.18	17.15	435.44	17.16	1,618.94	2.23
Apr	1,217.72	13.14	292.07	11.74	1,432.44	2.10
May	1,620.78	17.23	388.35	13.63	1,390.10	2.07
Jun	1,539.38	17.66	391.83	13.63	1,768.48	2.33
Jul	2,482.14	27.05	528.84	18.80	1,937.73	2.45
Aug	2,296.02	29.25	428.86	15.18	2,081.53	2.54
Sep	2,322.57	25.58	461.67	16.75	2,177.86	2.62
Oct	22,731.25	25.03	412.00	14.81	2,025.77	2.50
Nov	22,731.25	21.93	425.31	14.69	2,147.68	2.58
Dec	22,731.25	17.55	318.84	10.30	2,183.06	2.61
<b>Jan-Dec 2018</b>	<b>22,731.25</b>	<b>255.96</b>	<b>5,652.43</b>	<b>206.52</b>	<b>22,573.73</b>	<b>28.76</b>
<b>% change (y-o-y)</b>	<b>5.6</b>	<b>11.0</b>	<b>-31.2</b>	<b>-20.3</b>	<b>46.4</b>	<b>53.2</b>

Source: Department of Fisheries, Penang

## SECONDARY SECTOR

### MANUFACTURING

Penang: Approved Manufacturing Projects by Industry, Jan – Sep 2018

Industry	Jan – Sep 2018				
	No.	Employment	Domestic Investment (RM million)	Foreign Investment (RM million)	Total Capital Investment (RM million)
Electronics & Electrical Products	8	3,389	0.0	1,330.6	1,330.6
Machinery & Equipment	24	1,180	777.5	224.5	1,002.0
Transport Equipment	8	987	433.6	20.5	454.1
Plastic Products	7	549	34.5	373.6	408.1
Fabricated Metal Products	15	522	194.7	4.5	199.2
Scientific & Measuring Equipment	3	245	3.2	190.4	193.6
Paper, Printing & Publishing	5	253	108.8	0.0	108.8
Miscellaneous	1	178	45.1	0.0	45.1
Non-Metallic Mineral Products	1	108	43.2	0.0	43.2
Chemical & Chemical Products	3	51	18.0	5.7	23.7
Food Manufacturing	3	48	6.9	6.9	13.8
Basic Metal Products	1	20	2.0	0.1	2.1
Wood & Wood Products	1	9	1.0	0.0	1.0
<b>Total</b>	<b>80</b>	<b>7,539</b>	<b>1,668.5</b>	<b>2,156.7</b>	<b>3,825.2</b>

Note: Slight discrepancies may occur due to rounding. Data is subject to adjustments and revisions by MIDA.

Source: Malaysian Investment Development Authority (MIDA)

## Approved Manufacturing Projects by State, Jan – Sep 2018

State	No.	Domestic Investment (RM million)	Foreign Investment (RM million)	Total Capital Investment (RM million)
Johor	91	3,746.2	22,780.4	26,526.6
Kedah	32	400.8	594.4	995.2
Kelantan	5	73.1	24.6	97.7
Melaka	28	278.9	721.3	1,000.1
Negeri Sembilan	27	686.0	1,186.6	1,872.6
Pahang	11	127.2	8,848.4	8,975.5
Perak	22	439.8	162.6	602.4
Perlis	1	8.0	0.0	8.0
Pulau Pinang	80	1,668.5	2,156.7	3,825.2
Sabah	8	118.6	22.3	140.9
Sarawak	4	45.7	2,238.8	2,284.4
Selangor	143	2,407.8	5,839.1	8,246.9
Terengganu	7	119.9	4,163.6	4,283.5
Kuala Lumpur	8	104.7	25.6	130.3
Labuan	1	81.0	0.0	81.0
<b>Total</b>	<b>468</b>	<b>10,306.0</b>	<b>48,764.4</b>	<b>59,070.4</b>

Note: Slight discrepancies may occur due to rounding. Data is subject to adjustments and revisions by MIDA.

Source: Malaysian Investment Development Authority (MIDA)

## TERTIARY SECTOR

### UTILITIES

#### WATER

##### Penang: Water Production and Consumption (Million Litres), 2010 – 2018

Year	Production	% Increase	Consumption	% Increase
2010	349,324	4.8%	285,584	5.9%
2011	347,123	-0.6%	283,159	-0.8%
2012	352,762	1.6%	290,625	2.6%
2013	360,709	2.3%	295,109	1.5%
2014	363,198	0.7%	296,898	0.6%
2015	370,286	2.0%	296,662	-0.1%
2016	385,641	4.1%	302,627	2.0%
2017	386,052	0.1%	301,617	-0.3%
2018	391,652	1.4%	306,574	1.6%

Source: Penang Water Supply Corporation (PBA)

### Penang: Daily Water Supply and Consumption, 2017 and 2018

	2017			2018		
	Penang Island	Seberang Perai	Penang State	Penang Island	Seberang Perai	Penang State
No. of Treatment Plants	6	3	9	6	3	9
Max. Capacity of Treatment Plants (million litres/day)	310.1	1,307.0	1,617.1	292.1	1,307.0	1,599.1
Average Daily Production (million litres/day)	463.8	593.9	1,057.7	463.8	609.2	1,073.0
Average Daily Consumption (million litres/day)	369.3	457.0	826.3	369.7	470.2	839.9
No. of Services (consumers)	297,718	306,829	604,547	303,441	312,641	616,082
<b>Daily Consumption ('000 litre)</b>						
Per Consumer	1.24	1.49	1.37	1.22	1.50	1.36
Per Industrial Consumer	3.93	4.01	3.97	3.89	4.10	3.99
Per Domestic Consumer	0.83	1.03	0.93	0.82	1.04	0.93

Source: Penang Water Supply Corporation (PBA)

### ELECTRICITY

#### Penang: Power Demand & Supply, 2006 – 2018

Year	Maximum Demand (MW)	Installed Capacity (MW)	Excess Capacity %
2006	1,202	3,254	63.1%
2007	1,284	3,294	61.0%
2008	1,361	3,294	58.7%
2009	1,074	3,213	66.6%
2010	1,283	3,213	60.1%
2011	1,230	3,213	61.7%
2012	1,280	3,303	61.2%
2013	1,360	3,334	59.2%
2014	1,508	3,456	56.4%
2015	1,524	3,456	55.9%
2016	1,622	3,456	53.1%
2017	1,594	4,680	65.9%
2018	1,615	4,710	65.7%

Note: Excluding demand of 132kV customers supplied via direct 132kV connection.

Source: Tenaga Nasional Berhad, Penang

## TELECOMMUNICATIONS

Direct Exchange Line (DEL) Penetration Rate per 100 Household by State, Q1 2017 – Q4 2018

State	2017				2018			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Johor	32.0	31.4	30.5	29.4	27.4	26.5	26.1	24.7
Kedah & Perlis	23.1	22.6	22.6	21.0	19.5	18.6	18.0	16.8
Kelantan	15.1	14.9	14.9	14.3	13.7	13.4	13.3	12.7
Melaka	36.7	35.9	35.9	33.4	31.3	30.1	29.3	27.8
Negeri Sembilan	35.5	34.7	34.7	32.5	30.8	29.8	28.9	27.4
Pahang	24.2	23.7	23.7	22.4	20.9	20.3	20.1	19.0
Perak	36.4	35.6	35.6	33.2	30.7	29.5	29.0	26.6
<b>Pulau Pinang</b>	<b>36.6</b>	<b>35.6</b>	<b>35.6</b>	<b>32.8</b>	<b>30.7</b>	<b>29.5</b>	<b>28.3</b>	<b>26.6</b>
Selangor	18.8	18.3	18.3	16.1	14.9	14.3	13.9	13.1
Terengganu	26.5	25.9	25.9	24.5	23.3	22.5	21.8	20.4
Sabah	14.7	14.4	14.4	13.0	11.9	11.3	10.8	10.1
Sarawak	20.1	19.6	19.6	17.3	15.8	14.9	14.1	12.9
W.P Kuala Lumpur	11.0	10.8	10.8	8.7	7.8	7.5	7.5	7.1
W.P. Labuan	30.4	29.5	29.5	25.9	23.1	21.9	21.0	19.2

**Notes:** Direct Exchange Line (DEL) connects a customer's equipment to the Public Switched Telephone Network (PSTN) and has a dedicated port on a telephone exchange. The penetration rate refers to the total DELs to residential as well business.

**Source:** Malaysian Communications and Multimedia Commission (MCMC)

Mobile Cellular Penetration Rate per 100 Inhabitants by State, 2014 – 2017

State	2014	2015	2016	2017
Johor	156.7	129.6	144.8	137.2
Kedah	121.9	142.0	122.9	101.6
Kelantan	117.5	159.6	127.9	121.5
Melaka	159.2	140.0	135.7	151.3
Negeri Sembilan	153.3	141.6	155.0	150.1
Pahang	148.3	160.9	130.9	109.0
Perak	149.2	120.9	121.6	133.4
Perlis	103.7	143.0	131.7	171.7
<b>Pulau Pinang</b>	<b>143.8</b>	<b>146.8</b>	<b>138.6</b>	<b>127.9</b>
Sabah	107.4	130.2	112.7	112.4
Sarawak	113.0	123.5	120.7	124.2
Selangor	156.1	157.2	167.2	138.2
Terengganu	156.5	165.5	141.8	133.1
W.P. Kuala Lumpur	220.8	205.0	207.9	185.7
W.P. Labuan	171.2	133.8	110.4	99.8
W.P Putrajaya	191.3	210.0	158.2	112.4

**Note:** Mobile-cellular penetration rate per 100 inhabitants are from the Hand Phone Users Survey conducted by the MCMC annually.

**Source:** Malaysian Communications and Multimedia Commission (MCMC)

### Broadband Penetration Rate per 100 Inhabitants by State, Q1 2017 – Q4 2018

State	2017				2018			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Johor	138.0	146.0	140.8	148.1	143.7	143.1	141.9	139.5
Kedah	72.4	80.0	81.6	84.2	88.0	89.5	90.5	95.6
Kelantan	65.8	73.1	73.2	75.7	78.4	80.4	80.8	87.2
<b>Pulau Pinang</b>	<b>114.2</b>	<b>122.7</b>	<b>128.2</b>	<b>130.2</b>	<b>138.1</b>	<b>134.0</b>	<b>131.9</b>	<b>138.9</b>
Negeri Sembilan	111.9	123.8	125.5	128.7	134.4	136.2	138.0	141.0
Pahang	75.1	83.3	84.2	86.4	89.3	90.5	91.1	96.9
Melaka	89.9	99.9	105.0	103.2	112.2	113.4	112.4	116.4
Perak	88.6	97.3	98.9	102.1	107.6	111.5	115.1	114.1
Perlis	71.3	77.6	89.1	83.5	88.4	96.1	100.3	102.6
Selangor	124.3	130.5	131.8	133.8	131.8	129.9	127.8	131.5
Terengganu	72.3	77.1	80.9	81.9	85.0	87.4	87.8	90.7
Sabah	56.0	60.9	64.3	64.5	67.9	75.6	74.9	76.4
Sarawak	93.7	102.7	102.3	106.5	91.3	92.2	93.0	107.0
W.P. Putrajaya	69.7	73.3	82.7	78.5	87.4	92.4	92.5	90.2
W.P. Kuala Lumpur	200.2	211.1	221.6	225.2	220.7	226.3	243.8	240.8
W.P. Labuan	61.1	67.3	70.3	70.3	73.2	73.6	74.0	72.0

Source: Malaysian Communications and Multimedia Commission (MCMC)

## TRANSPORT

### ROAD TRANSPORT

#### New Motor Vehicle Registration, Jan - Sep 2018

Month	Region	Motorcycle	Private Car	Bus	Taxi	Car Rental	Goods Vehicle	Others	Total
Jan	Penang	3,970	598	5	1	14	241	55	<b>4,884</b>
	Malaysia	49,721	46,862	130	32	161	3,090	1,493	<b>101,489</b>
Feb	Penang	2,573	428	2	0	3	198	48	<b>3,252</b>
	Malaysia	39,707	41,335	95	59	227	2,581	1,163	<b>85,167</b>
Mar	Penang	2,950	488	2	0	3	281	39	<b>3,763</b>
	Malaysia	47,956	49,157	86	72	426	3,560	1,531	<b>102,788</b>
Apr	Penang	2,794	434	3	3	7	263	57	<b>3,561</b>
	Malaysia	47,400	47,145	67	44	494	3,401	1,599	<b>100,150</b>
May	Penang	1,970	251	1	3	4	218	43	<b>2,490</b>
	Malaysia	36,237	43,985	72	40	491	2,798	1,221	<b>84,844</b>
Jun	Penang	2,691	559	1	1	0	195	35	<b>3,482</b>
	Malaysia	44,415	64,938	68	41	398	2,848	1,360	<b>114,068</b>
Jul	Penang	2,872	602	7	2	1	272	58	<b>3,814</b>
	Malaysia	53,696	69,938	100	48	750	3,821	1,601	<b>129,954</b>
Aug	Penang	3,041	645	6	4	3	425	52	<b>4,176</b>
	Malaysia	53,096	69,673	110	106	523	5,666	1,515	<b>130,689</b>
Sep	Penang	2,309	219	3	2	1	319	50	<b>2,903</b>
	Malaysia	43,705	30,506	64	21	406	3,031	1,366	<b>79,099</b>

Source: Road Transport Department, Malaysia

## TRADE

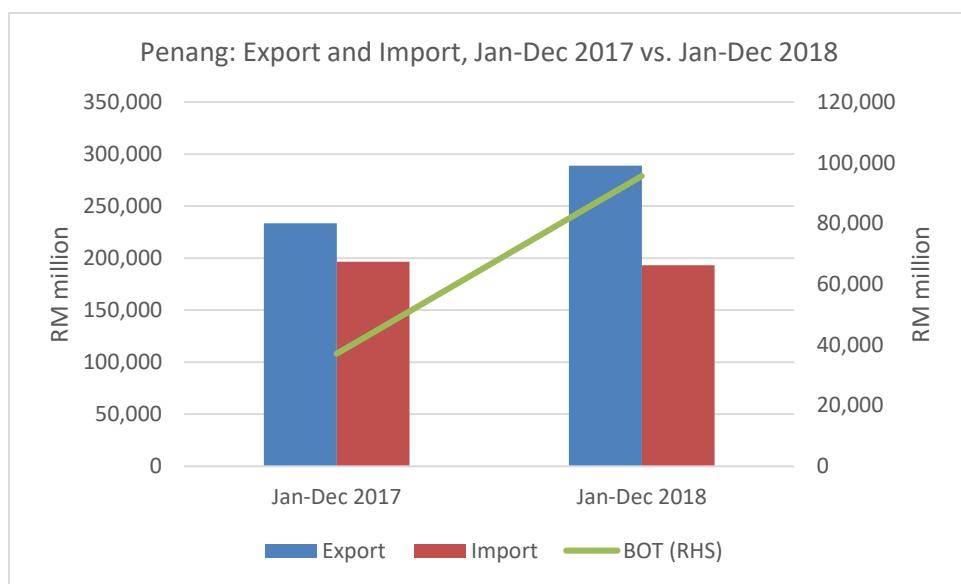
### TRADE BALANCE

Export, Import and Balance of Trade, Jan – Dec 2018 (RM million)

	MALAYSIA			PENANG		
	Export	Import	BOT	Export	Import	BOT
Jan	82,820	73,153	9,667	25,047	16,941	8,106
Feb	70,343	61,325	9,018	18,577	13,980	4,596
Mar	84,467	69,779	14,688	23,498	15,946	7,552
Apr	84,247	71,225	13,021	24,770	15,102	9,668
May	82,110	73,994	8,117	21,670	15,577	6,092
Jun	78,611	72,610	6,001	23,067	15,959	7,108
Jul	86,154	77,827	8,327	27,090	17,304	9,786
Aug	81,810	80,197	1,613	23,793	17,434	6,359
Sep	82,953	67,720	15,233	24,764	16,038	8,727
Oct	96,364	80,050	16,313	29,297	16,982	12,315
Nov	84,861	77,019	7,842	23,165	15,635	7,530
Dec	83,274	72,845	10,429	24,093	16,370	7,722
<b>Jan-Dec 2018</b>	<b>998,014</b>	<b>877,744</b>	<b>120,270</b>	<b>288,838</b>	<b>193,268</b>	<b>95,570</b>
<b>Jan-Dec 2017</b>	<b>934,927</b>	<b>836,422</b>	<b>98,505</b>	<b>233,493</b>	<b>196,427</b>	<b>37,065</b>
<b>% change (y-o-y)</b>	<b>6.8</b>	<b>4.9</b>	<b>22.1</b>	<b>23.7</b>	<b>-1.6</b>	<b>157.8</b>

Note: For Penang data, it is captured at the exit and entry points of Penang port and airport. Slight discrepancies may occur due to rounding.

Source: Department of Statistics, Malaysia



Source: Department of Statistics, Malaysia

## LOGISTICS

### PENANG AIRPORT

Passenger Movements (Domestic & International), Jan – Dec 2018

Month	No. of Passengers		
	Domestic	International	Total
Jan	342,078	270,434	<b>612,512</b>
Feb	323,394	251,420	<b>574,814</b>
Mar	360,671	300,269	<b>660,940</b>
Apr	341,493	282,513	<b>624,006</b>
May	330,049	273,408	<b>603,457</b>
Jun	343,399	312,042	<b>655,441</b>
Jul	363,857	325,792	<b>689,649</b>
Aug	354,879	312,604	<b>667,483</b>
Sep	336,528	291,561	<b>628,089</b>
Oct	346,203	306,971	<b>653,174</b>
Nov	353,429	306,742	<b>660,171</b>
Dec	391,069	362,797	<b>753,866</b>
<b>Jan-Dec 2018</b>	<b>4,187,049</b>	<b>3,596,553</b>	<b>7,783,602</b>
<b>Jan-Dec 2017</b>	<b>4,092,935</b>	<b>3,138,612</b>	<b>7,231,547</b>
<b>% change (y-o-y)</b>	<b>2.3</b>	<b>14.6</b>	<b>7.6</b>

Note: Passenger movements refer to arrival, departure and transit.

Source: Malaysia Airports Holdings Berhad

### Aircraft Movements (Arrival & Departure), Jan – Dec 2018

Month	No. of Movement		
	Arrival	Departure	Total
Jan	3,032	3,035	<b>6,067</b>
Feb	2,803	2,802	<b>5,605</b>
Mar	3,028	3,028	<b>6,056</b>
Apr	2,944	2,946	<b>5,890</b>
May	2,926	2,926	<b>5,852</b>
Jun	2,946	2,951	<b>5,897</b>
Jul	3,151	3,159	<b>6,310</b>
Aug	3,183	3,191	<b>6,374</b>
Sep	3,111	3,119	<b>6,230</b>
Oct	3,218	3,231	<b>6,449</b>
Nov	3,108	3,111	<b>6,219</b>
Dec	3,244	3,247	<b>6,491</b>
<b>Jan-Dec 2018</b>	<b>36,694</b>	<b>36,746</b>	<b>73,440</b>
<b>Jan-Dec 2017</b>	<b>34,580</b>	<b>34,575</b>	<b>69,155</b>
<b>% change (y-o-y)</b>	<b>6.1</b>	<b>6.3</b>	<b>6.2</b>

Note: Aircraft movements refer to both domestic and international.

Source: Malaysia Airports Holdings Berhad

### Cargo Handled (Domestic & International), Jan – Dec 2018

Month	Cargo Handled (in kg)		
	Domestic	International	Total
Jan	1,022,932	10,921,327	<b>11,944,259</b>
Feb	850,338	8,989,391	<b>9,839,729</b>
Mar	1,004,160	11,264,209	<b>12,268,369</b>
Apr	909,557	10,601,189	<b>11,510,746</b>
May	855,495	10,755,590	<b>11,611,085</b>
Jun	933,757	10,808,637	<b>11,742,394</b>
Jul	1,055,273	12,242,149	<b>13,297,422</b>
Aug	982,420	12,133,444	<b>13,115,864</b>
Sep	1,108,317	11,517,627	<b>12,625,944</b>
Oct	986,957	12,251,570	<b>13,238,527</b>
Nov	1,121,229	10,949,846	<b>12,071,075</b>
Dec	1,028,557	11,354,231	<b>12,382,788</b>
<b>Jan-Dec 2018</b>	<b>11,858,992</b>	<b>133,789,210</b>	<b>145,648,202</b>
<b>Jan-Dec 2017</b>	<b>10,250,489</b>	<b>123,934,683</b>	<b>134,185,172</b>
<b>% change (y-o-y)</b>	<b>15.7</b>	<b>8.0</b>	<b>8.5</b>

Note: Cargo handled refers to arrival, departure and transit.

Source: Malaysia Airports Holdings Berhad

## PENANG PORT

Number of Ship Calls, Jan – Dec 2018

<b>Month</b>	<b>Domestic</b>	<b>Foreign</b>	<b>Total</b>
Jan	211	347	<b>558</b>
Feb	210	304	<b>514</b>
Mar	235	296	<b>531</b>
Apr	209	297	<b>506</b>
May	255	381	<b>636</b>
Jun	204	313	<b>517</b>
Jul	238	296	<b>534</b>
Aug	225	307	<b>532</b>
Sep	213	353	<b>566</b>
Oct	224	329	<b>553</b>
Nov	209	280	<b>489</b>
Dec	232	274	<b>506</b>
<b>Jan-Dec 2018</b>	<b>2,665</b>	<b>3,777</b>	<b>6,442</b>
<b>Jan-Dec 2017</b>	<b>2,717</b>	<b>3,893</b>	<b>6,610</b>
<b>% change (y-o-y)</b>	<b>-1.9</b>	<b>-3.0</b>	<b>-2.5</b>

Source: Penang Port Sdn Bhd

Gross Registered Tonnage (Domestic & Foreign), Jan – Dec 2018

<b>Month</b>	<b>Domestic</b>	<b>Foreign</b>	<b>Total</b>
Jan	2,220,101	5,432,313	<b>7,652,414</b>
Feb	2,371,116	4,199,093	<b>6,570,209</b>
Mar	2,739,517	3,765,473	<b>6,504,990</b>
Apr	2,452,091	3,810,945	<b>6,263,036</b>
May	2,700,187	4,235,489	<b>6,935,676</b>
Jun	2,492,301	3,795,183	<b>6,287,484</b>
Jul	2,528,879	2,235,615	<b>4,764,494</b>
Aug	2,339,037	2,443,608	<b>4,782,645</b>
Sep	2,376,096	3,285,695	<b>5,661,791</b>
Oct	2,423,313	3,281,689	<b>5,705,002</b>
Nov	2,252,379	3,462,001	<b>5,714,380</b>
Dec	2,365,941	4,609,742	<b>6,975,683</b>
<b>Jan-Dec 2018</b>	<b>29,260,958</b>	<b>44,556,846</b>	<b>73,817,804</b>
<b>Jan-Dec 2017</b>	<b>28,557,089</b>	<b>53,583,169</b>	<b>82,140,258</b>
<b>% change (y-o-y)</b>	<b>2.5</b>	<b>-16.8</b>	<b>-10.1</b>

Source: Penang Port Sdn Bhd

### Type of Cargo Handled, Jan – Dec 2018

Month	(freight weight tonnes)				Container
	General Cargo	Dry Bulk	Liquid Bulk	Containerised	(TEUs)
Jan	87,445	410,157	391,746	1,949,049	119,766
Feb	166,383	324,054	310,919	1,749,952	114,165
Mar	112,519	390,529	337,878	2,040,818	137,339
Apr	150,273	431,658	390,963	1,975,386	132,643
May	192,375	490,186	329,950	2,050,388	122,897
Jun	128,308	383,127	367,314	1,900,647	118,115
Jul	91,178	273,590	390,719	2,100,181	130,255
Aug	107,722	238,152	386,043	2,076,272	126,707
Sep	100,414	468,316	371,739	2,025,050	130,177
Oct	127,250	325,969	360,697	2,095,920	129,908
Nov	121,126	409,935	387,450	2,129,041	122,104
Dec	114,158	292,632	401,492	1,940,426	126,300
<b>Jan-Dec 2018</b>	<b>1,499,151</b>	<b>4,438,305</b>	<b>4,426,910</b>	<b>24,033,130</b>	<b>1,510,376</b>
<b>Jan-Dec 2017</b>	<b>1,281,338</b>	<b>4,296,802</b>	<b>4,408,461</b>	<b>22,786,057</b>	<b>1,523,827</b>
<b>% change (y-o-y)</b>	<b>17.0</b>	<b>3.3</b>	<b>0.4</b>	<b>5.5</b>	<b>-0.9</b>

Source: Penang Port Sdn Bhd

### TOURISM

#### Penang: Average Occupancy Rate, Jul – Dec 2018

	2017						2018					
	Jul	Aug	Sep	Oct	Nov	Dec	Jul	Aug	Sep	Oct	Nov	Dec
Average Occupancy Rate (%)	62.00	62.04	61.82	61.68	61.37	62.19	64.16	65.03	64.20	63.80	63.37	64.15
Average Occupancy Rate for Beach Hotels (%)	66.65	68.55	67.80	67.04	65.91	66.98	64.44	65.74	64.70	63.68	63.43	65.04
Average Occupancy for City Hotels (%)	60.77	60.37	60.28	60.31	60.21	60.96	64.09	64.84	64.07	63.83	63.36	63.92

Note: The average occupancy rate for city hotels is author's own calculation by combining the hotels in Penang Island and Seberang Perai.

Source: Malaysian Association of Hotels (Penang Chapter)

## PROPERTY

Penang: House Price Index, Q1 2013 – Q3 2018

Year	Indices				
	Terraced	High-Rise	Detached	Semi-Detached	All Houses
Weight (2010=100)	34.2	52.2	3.6	9.9	<b>100.0</b>
<b>2013 Q1</b>	129.6	139.1	117.3	131.1	<b>132.2</b>
<b>2013 Q2</b>	134.7	151.4	135.2	140.4	<b>141.3</b>
<b>2013 Q3</b>	138.7	159.7	146.3	144.9	<b>147.3</b>
<b>2013 Q4</b>	140.3	165.8	146.6	153.9	<b>151.3</b>
<b>2014 Q1</b>	143.7	169.0	147.4	149.9	<b>153.5</b>
<b>2014 Q2</b>	149.6	174.3	153.3	148.2	<b>158.1</b>
<b>2014 Q3</b>	154.0	178.9	159.5	157.3	<b>163.1</b>
<b>2014 Q4</b>	155.4	178.5	163.1	161.0	<b>164.4</b>
<b>2015 Q1</b>	154.6	182.3	168.2	164.7	<b>165.6</b>
<b>2015 Q2</b>	157.0	186.2	165.1	164.4	<b>168.5</b>
<b>2015 Q3</b>	163.7	192.1	166.4	168.2	<b>174.2</b>
<b>2015 Q4</b>	165.2	195.6	173.2	176.4	<b>177.3</b>
<b>2016 Q1</b>	161.1	193.8	171.9	179.6	<b>176.9</b>
<b>2016 Q2</b>	162.4	198.2	175.5	179.1	<b>179.1</b>
<b>2016 Q3</b>	167.5	205.7	173.9	180.0	<b>183.8</b>
<b>2016 Q4</b>	164.6	205.8	169.7	179.9	<b>182.9</b>
<b>2017 Q1</b>	170.2	208.1	180.2	183.3	<b>187.2</b>
<b>2017 Q2</b>	174.1	205.7	185.2	191.0	<b>189.3</b>
<b>2017 Q3</b>	176.9	209.4	186.7	193.4	<b>192.3</b>
<b>2017 Q4</b>	175.0	205.8	188.8	195.0	<b>190.5</b>
<b>2018 Q1</b>	173.7	202.6	197.3	204.1	<b>190.4</b>
<b>2018 Q2</b>	173.6	196.0	203.6	209.6	<b>189.0</b>
<b>2018 Q3P</b>	169.6	191.4	204.3	211.8	<b>185.9</b>

P: Preliminary

Source: National Property Information Centre (NAPIC)

Penang: Number of Transactions by Price Range for the Principal Property Sub-Sectors

Price Range (RM)	Year	Residential	Commercial	Industrial	Agricultural	Development Land	Others	Total
50,000 & below	Q3 2017	146	12	4	103	58	0	323
	Q2 2018	125	7	3	95	58	1	289
	Q3 2018	108	3	6	103	53	0	273
50,001 – 100,000	Q3 2017	312	15	1	60	51	0	439
	Q2 2018	422	20	2	54	60	0	558
	Q3 2018	385	13	4	61	53	0	516
100,001 – 150,000	Q3 2017	389	20	17	52	30	0	508
	Q2 2018	485	15	0	37	17	2	556
	Q3 2018	381	18	7	41	26	1	474
150,001 – 200,000	Q3 2017	273	17	5	28	21	0	344
	Q2 2018	296	18	0	32	12	0	358
	Q3 2018	326	21	4	26	26	0	403
200,001 – 250,000	Q3 2017	211	19	13	11	10	0	264
	Q2 2018	246	15	0	16	10	0	287
	Q3 2018	267	21	5	20	6	0	319
250,001 – 300,000	Q3 2017	257	18	11	16	11	0	313
	Q2 2018	225	9	2	10	4	0	250
	Q3 2018	281	7	6	13	14	0	321
300,001 – 400,000	Q3 2017	383	46	13	21	8	0	471
	Q2 2018	360	28	3	16	10	0	417
	Q3 2018	432	52	5	15	13	0	517
400,001 – 500,000	Q3 2017	314	41	8	20	7	0	390
	Q2 2018	218	30	6	10	5	0	269
	Q3 2018	254	34	7	15	6	1	317
500,001 – 1,000,000	Q3 2017	586	83	30	32	19	1	751
	Q2 2018	472	78	41	27	18	1	637
	Q3 2018	545	82	22	35	25	0	709
1,000,001 & Above	Q3 2017	260	69	50	45	62	0	486
	Q2 2018	208	70	44	32	50	1	405
	Q3 2018	229	72	51	30	63	1	446
Total	Q3 2017	3,131	340	152	388	277	1	4,289
	Q2 2018	3,057	290	101	329	244	5	4,026
	Q3 2018	3,208	323	117	359	285	3	4,295

Source: National Property Information Centre (NAPIC)

Penang: Value of Transactions (RM million) by Price Range for the Principal Property Sub-Sectors

Price Range (RM)	Year	Residential	Commercial	Industrial	Agricultural	Development Land	Others	Total
50,000 & below	Q3 2017	5.95	0.47	0.06	2.54	1.51	0.00	10.53
	Q2 2018	4.89	0.25	0.06	2.51	1.36	0.01	9.09
	Q3 2018	4.47	0.13	0.17	3.30	0.93	0.00	9.00
50,001 – 100,000	Q3 2017	24.00	1.33	0.08	4.55	3.77	0.00	33.72
	Q2 2018	33.10	1.49	0.13	4.05	4.81	0.00	43.58
	Q3 2018	29.36	1.01	0.28	4.64	3.89	0.00	39.17
100,001 – 150,000	Q3 2017	49.97	2.52	2.14	6.38	3.69	0.00	64.69
	Q2 2018	62.29	2.00	0.00	4.61	2.04	0.21	71.15
	Q3 2018	48.75	2.47	0.93	5.12	3.23	0.14	60.64
150,001 – 200,000	Q3 2017	48.50	3.10	0.92	4.89	3.62	0.00	61.03
	Q2 2018	52.40	3.39	0.00	5.61	2.16	0.00	63.55
	Q3 2018	58.21	3.68	0.72	4.63	4.41	0.00	71.65
200,001 – 250,000	Q3 2017	48.62	4.39	3.13	2.45	2.28	0.00	60.87
	Q2 2018	56.73	3.61	0.00	3.71	2.19	0.00	66.23
	Q3 2018	62.06	4.84	1.17	4.53	1.43	0.00	74.04
250,001 – 300,000	Q3 2017	71.92	5.16	3.06	4.38	3.10	0.00	87.61
	Q2 2018	63.23	2.56	0.57	2.77	1.12	0.00	70.25
	Q3 2018	78.93	1.92	1.58	3.65	4.00	0.00	90.07
300,001 – 400,000	Q3 2017	135.54	16.27	4.68	7.29	2.91	0.00	166.69
	Q2 2018	127.15	10.17	1.03	5.52	3.63	0.00	147.50
	Q3 2018	152.58	19.01	1.76	5.11	4.29	0.00	182.76
400,001 – 500,000	Q3 2017	143.04	19.02	3.63	9.31	3.32	0.00	178.33
	Q2 2018	99.09	13.60	2.60	4.43	2.29	0.00	122.02
	Q3 2018	115.47	15.50	3.24	6.59	2.83	0.49	144.12
500,001 – 1,000,000	Q3 2017	395.64	58.99	22.45	23.31	13.93	0.68	514.99
	Q2 2018	321.11	56.84	30.01	20.08	13.16	0.98	442.18
	Q3 2018	377.20	58.14	15.87	25.89	19.42	0.00	496.51
1,000,001 & Above	Q3 2017	570.20	147.22	156.73	718.87	1,029.92	0.00	2,622.94
	Q2 2018	395.07	147.94	285.07	91.37	177.38	1.10	1,097.93
	Q3 2018	618.59	209.20	189.39	64.69	937.55	1.52	2,020.94
Total	Q3 2017	1,493.37	258.46	196.88	783.97	1,068.05	0.68	3,801.42
	Q2 2018	1,215.05	241.84	319.48	144.65	210.15	2.30	2,133.48
	Q3 2018	1,545.62	315.90	215.08	128.16	981.98	2.15	3,188.89

Source: National Property Information Centre (NAPIC)

## EDUCATION

Penang: Number of Schools, Students & Teachers at the Pre-School Level, 2018

Type of School	No. of Schools	No. of Students	No. of Teachers
Public <sup>#</sup>	330*	7,602	324
Private	451	20,113	2,068
<b>Total</b>	<b>781</b>	<b>27,715</b>	<b>2,392</b>

\* as of Jun 2018, \* Pre-schools that are located in either primary or secondary schools.

Source: Buku Perangkaan Pendidikan Malaysia, Ministry of Education, Malaysia

Penang: Number of Schools, Students & Teachers at the Primary Level, as of Jun 2018

Type of School	No. of Schools	No. of Students	No. of Teachers
SK/SRK	149	78,969*	6,761
SJK (C)	90	45,376	3,158
SJK (T)	28	5,383	537
SK (Khas)	3	105	75
SR Agama	1	357	31
<b>Total</b>	<b>271</b>	<b>130,190</b>	<b>10,562</b>

\* Includes Year 4-6 in Special Model Schools

Source: Buku Perangkaan Pendidikan Malaysia, Ministry of Education, Malaysia

Penang: Number of Schools, Students & Teachers at the Secondary Level, as of Jun 2018

Type of School	No. of Schools	No. of Students*	No. of Teachers
SM Berasrama Penuh	2	1,335	138
SM Khas	1	141	50
SM Teknik & Kolej Vokasional <sup>b</sup>	7	4,147	635
SMK <sup>a</sup>	103	96,296	8,023
SMK Agama	15	5,859	650
<b>Total</b>	<b>128</b>	<b>107,778</b>	<b>9,496</b>

Note: \* Refers to the total of secondary and post-secondary (Form 6), <sup>a</sup> Includes Special Model Schools, <sup>b</sup> Includes Form 6 College

Source: Buku Perangkaan Pendidikan Malaysia, Ministry of Education, Malaysia

Penang: Number of Students Taking Public Exams and Passing Rates, 2013 & 2014

	No. of Students		No. of Passes		Passing Rate (%)	
	2013	2014	2013	2014	2013	2014
UPSR	23,335	23,284	15,996	16,132	68.55	69.28
SPM	21,820	21,816	18,061	17,912	82.77	82.10
STPM	3,049	2,444	2,966	2,372	97.28	97.05
STAM	1,831	235	1,392	123	76.02	52.34

Note: Permission to access updated data has been denied by Penang State Education Department

Source: Penang State Education Department

## HEALTH

Penang: Life Expectancy at Birth, 2010 – 2018

	2011	2012	2013	2014	2015	2016	2017 <sup>p</sup>	2018 <sup>e</sup>
Male	71.9	71.2	72.3	72.3	72.4	72.3	72.3	72.6
Female	77.0	77.5	77.5	77.5	77.6	77.7	78.1	78.6

<sup>p</sup> Preliminary; <sup>e</sup> Estimate

Source: Penang State Health Department (for data from 2011 to 2013); and Pulau Pinang @ a Glance, Department of Statistics, Malaysia (for data from 2014 onwards)

Penang: Health Manpower, 2016 – 2017

Post	2016		2017	
	No. of Post	Post Filled	No. of Post	Post Filled
<b>Total Number of State Health Department Manpower</b>	<b>13,445</b>	<b>12,520</b>	<b>13,633</b>	<b>12,424</b>
<b>Management &amp; Professional</b>				
Medical Officer	1,262	1,342	1,948	1,812
Dental Officer	213	206	217	196
Pharmacist	568	513	571	533
Others	-	-	493	452
<b>Paramedic &amp; Auxiliary</b>				
Assistant Environmental Health Officer	312	208	249	20
Assistant Medical Officer	676	657	711	691
Nurse	3,605	3,489	3,603	3,521
Community Nurse	1,072	1,001	1,046	961
Radiographer	-	-	175	159
Occupational Therapist	-	-	82	73
Physiotherapist	-	-	88	85
Medical Laboratory Technologist	310	278	310	281
Assistant Pharmacist	190	175	190	178
Dental Nurse	182	170	182	181
Dental Technologist	43	40	43	38
Medical Technologist	-	-	2	0

Source: Penang State Health Department

Penang: Number of Beds, Bed Occupancy Rate (BOR) & Average Length of Stay (ALOS) for Government Hospitals, 2016 – 2017

Hospital	No. of Bed		B.O.R (%)		A.L.O.S (day)	
	2016	2017	2016	2017	2016	2017
Hospital Pulau Pinang	1,136*	1,136	72.40	68.70	5.25	4.96
Hospital Seberang Jaya	393	393	82.42	84.94	3.52	3.67
Hospital Bukit Mertajam	242	242	70.91	69.64	3.18	3.19
Hospital Kepala Batas	108	108	90.23	88.06	2.82	2.67
Hospital Sungai Bakap	105	105	51.29	49.95	3.46	3.70
Hospital Balik Pulau	81	81	52.66	50.45	3.10	3.06
<b>Total</b>	<b>2,065</b>	<b>2,065</b>	<b>73.22</b>	<b>71.24</b>	<b>4.13</b>	<b>4.04</b>

B.O.R. – Bed Occupancy Rate

A.L.O.S. – Average Length of Stay

\* Operation Bed

Source: Penang State Health Department

Penang: 10 Principal Causes of Deaths\* in Government Hospitals, 2017

No.	Main Causes of Deaths	2017	
		No. of Deaths	%
1	Diseases of the respiratory system	863	21.18
2	Diseases of the circulatory system	776	19.05
3	Certain infectious and parasitic diseases	546	13.40
4	Neoplasms	414	10.16
5	Endocrine, nutritional and metabolic diseases	279	6.85
6	Diseases of the genitourinary system	259	6.36
7	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	224	5.50
8	External causes of morbidity and mortality	183	4.49
9	Diseases of the digestive system	166	4.07
10	Diseases of the nervous system	85	2.09
<b>Total Deaths (10 Main Causes)</b>		<b>3,795</b>	<b>93.15</b>
	Other causes	279	6.85
<b>Total Hospital Deaths</b>		<b>4,074</b>	<b>100.00</b>

Note: The percentage of total death discharge calculation is based on UCOD/COD/for main cause of death diagnosis with ICD-10 code.

Source: Penang State Health Department (updated in August 2018)

## SELECTED NATIONAL STATISTICS

Malaysia: Gross Domestic Product by Sector, Q4 2017 – Q4 2018

Component	RM million				
	2017 (Q4)	2018 (Q1)	2018 (Q2)	2018 (Q3)	2018 (Q4)
<b>National Accounts (GDP) at current price</b>	<b>356,009</b>	<b>343,151</b>	<b>348,847</b>	<b>363,085</b>	<b>374,627</b>
Agriculture	30,404	26,877	26,239	29,659	27,836
Mining and Quarrying	31,962	34,657	34,018	33,260	35,611
Manufacturing	78,477	74,379	78,103	79,907	81,423
Electricity, Gas and Water	9,145	8,801	9,262	9,657	9,753
Construction	16,370	17,365	16,688	17,768	16,988
Wholesale and Retail Trade, Hotel and Restaurants	71,371	64,994	67,231	73,211	78,167
Transport, Storage and Communication	30,752	31,479	32,571	33,147	33,332
Finance, Insurance, real estate and business services	37,572	37,493	37,314	38,644	39,891
Other Services	14,543	14,839	15,244	15,588	15,576
Government Services	30,221	27,040	27,567	28,990	31,657
Less : Imputed bank service charges	-	-	-	-	-
Plus : import duties	5,192	5,227	4,610	3,255	4,394
<b>National Accounts (GDP) at 2010 price</b>	<b>308,078</b>	<b>295,288</b>	<b>300,211</b>	<b>311,704</b>	<b>322,596</b>
Agriculture	25,597	22,406	21,948	25,709	25,482
Mining and Quarrying	25,343	25,048	23,832	22,630	25,461
Manufacturing	70,230	67,342	70,844	71,586	73,565
Electricity, Gas and Water	7,464	7,446	7,714	7,875	7,832
Construction	13,352	14,093	13,530	14,517	13,695
Wholesale and Retail Trade, Hotel and Restaurants	57,000	52,511	54,795	59,336	62,009
Transport, storage and Communication	28,842	29,309	30,390	31,031	31,034
Finance, Insurance, real estate and business services	34,351	34,264	34,146	35,404	36,331
Other Services	13,176	13,232	13,473	13,825	13,924
Government Services	28,111	25,154	25,633	26,967	29,447
Less : Imputed bank service charges	-	-	-	-	-
Plus : import duties	4,610	4,484	3,907	2,825	3,816

Note: Data is subject to adjustments with the revisions carried out by Bank Negara Malaysia.

Source: Bank Negara Malaysia

### Malaysia: Currency Exchange Rates, Jan – Dec 2018

Period (RM as at)	USD	GBP	EUR	JPY100	AUD	SGD
Jan	3.9578	5.4557	4.8189	3.5615	3.1427	2.9925
Feb	3.9123	5.4659	4.8305	3.6258	3.0777	2.9635
Mar	3.9031	5.4537	4.8168	3.6811	3.0299	2.9690
Apr	3.8862	5.4755	4.7749	3.6140	2.9895	2.9555
May	3.9644	5.3408	4.6876	3.6127	2.9874	2.9622
Jun	3.9999	5.3167	4.6736	3.6367	3.0002	2.9687
Jul	4.0493	5.3332	4.7318	3.6350	2.9982	2.9704
Aug	4.0917	5.2686	4.7237	3.6829	3.0010	2.9896
Sep	4.1396	5.4059	4.8325	3.6963	2.9867	3.0209
Oct	4.1584	5.4141	4.7800	3.6854	2.9564	3.0154
Nov	4.1867	5.4014	4.7567	3.6932	3.0329	3.0433
Dec	4.1729	5.2859	4.7484	3.7152	2.9965	3.0453

**Note:** All exchange rates are the average of buying and selling interbank rates at noon.

**Source:** Bank Negara Malaysia

### Malaysia: National Indices and Employment Data, Q4 2018

	Unit Description	Latest Period	Latest Data	Previous Period
Industrial Production Index	2015=100	Dec-18	115.9	114.2
Employment	(million persons)	Q4/18	14.933	14.857
		Dec-18	14.986	14.941
	% of labour force	Q4/18	96.7	96.6
		Dec-18	96.7	96.7
Unemployment	(million persons)	Q4/18	0.517	0.524
		Dec-18	0.514	0.516
	% of labour force	Q4/18	3.3	3.4
		Dec-18	3.3	3.3
Average salaries and wages per employee in manufacturing sector	RM per month	Dec-18	3,863.3	3,575.2
Consumer Price Index	2010=100	Dec-18	121.1	121
Producer Price Index	2010=100	Dec-18	103.8	105.2

**Note:** Slight discrepancies may occur due to rounding.

**Source:** Bank Negara Malaysia

### Malaysia: Federal Government Accounts, 2012 – 2017

Component	RM million					
	2012	2013	2014	2015	2016	2017
<b>Public Sector Operations</b>						
General Government						
Revenue	188,761	192,388	202,036	211,989	222,250	229,201
Operating Expenditure	227,242	236,983	241,305	241,075	235,763	246,163
Non-financial public enterprises' Operating Surplus	129,796	137,402	121,954	77,392	81,636	99,726
Public Sector Current Account	91,315	92,808	82,685	48,305	68,124	82,764
Net Development Expenditure	138,368	139,391	164,483	138,597	158,122	146,657
Public Sector Overall Balance	-47,053	-46,584	-81,798	-90,292	-89,998	-63,893
Domestic Financing	70,475	57,136	52,439	61,658	47,645	67,344
Bank	2,958	34,835	59,053	16,152	34,798	47,589
Non-Bank	67,517	22,301	-6,614	45,506	12,847	19,755
Foreign Borrowing	-9,971	683	3,133	15,731	11,065	1,017

<sup>P</sup> Preliminary

Source: Bank Negara Malaysia

### Malaysia: Producer Price Index (2010=100), Oct – Dec 2018

Section	2017			2018			% change (y-o-y)		
	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec
<b>Local Production</b>	<b>107.5</b>	<b>108.3</b>	<b>107.8</b>	<b>108.2</b>	<b>105.2</b>	<b>103.8</b>	<b>0.7</b>	<b>-2.9</b>	<b>-3.7</b>
Food	126.8	128.0	128.0	124.8	124.7	126.1	-1.6	-2.6	-1.5
Beverages and tobacco	114.4	115.1	114.1	114.5	114.4	114.5	0.1	-0.6	0.4
Crude materials, inedible	100.7	99.3	93.2	80.1	73.8	73.1	-20.5	-25.7	-21.6
Mineral fuels, lubricants, etc.	105.8	108.2	109.2	128.0	119.1	113.9	21.0	10.1	4.3
Animal and vegetable oils and fats	105.1	106.2	103.3	89.9	87.0	84.8	-14.5	-18.1	-17.9
Chemicals	114.0	115.0	114.9	113.4	112.8	111.0	-0.5	-1.9	-3.4
Manufactured goods	109.4	109.3	109.7	109.0	108.6	108.0	-0.4	-0.6	-1.5
Machinery and transport equipment	104.4	104.5	104.6	102.5	101.5	102.2	-1.8	-2.9	-2.3
Miscellaneous manufactured articles	109.3	109.0	108.9	104.2	104.2	104.3	-4.7	-4.4	-4.2

Source: Department of Statistics, Malaysia

### Malaysia: Consumer Price Index (2010=100), Jul – Dec 2018

Period	All groups	Food & non-alcoholic beverages	Alcoholic beverages & tobacco	Clothing & footwear	Housing, water, electricity, gas & other fuels	Furnishings, household equipment & routine	Health	Transport	Communication	Recreation services and culture	Education	Restaurant & hotels	Miscellaneous goods and services
Weight	<b>100.0</b>	<b>29.5</b>	<b>2.4</b>	<b>3.2</b>	<b>23.8</b>	<b>4.1</b>	<b>1.9</b>	<b>14.6</b>	<b>4.8</b>	<b>4.8</b>	<b>1.3</b>	<b>2.9</b>	<b>6.7</b>
<b>2017</b>													
Jul	<b>118.7</b>	129.2	165.5	98.0	116.6	115.0	121.2	109.5	97.8	111.6	116.8	128.3	114.4
Aug	<b>119.8</b>	129.6	165.5	97.9	117.3	115.1	121.3	114.5	97.8	111.5	116.8	128.9	114.2
Sep	<b>120.1</b>	129.7	165.5	98.1	117.3	115.2	121.5	116.8	97.7	111.5	116.8	129.0	114.4
Oct	<b>120.0</b>	129.4	165.6	98.0	117.3	115.2	121.6	116.6	97.6	111.6	116.8	129.1	114.5
Nov	<b>120.8</b>	129.9	165.7	97.9	117.7	115.2	121.7	120.4	97.4	111.7	116.8	129.3	114.5
Dec	<b>120.9</b>	130.8	165.6	97.8	117.7	115.2	122.0	119.5	97.4	111.7	117.0	129.4	114.3
<b>2018</b>													
Jul	<b>119.8</b>	130.1	164.1	95.1	118.9	113.1	121.2	116.8	94.0	108.9	118.0	129.6	111.0
Aug	<b>120.0</b>	130.1	163.9	95.1	119.6	113.2	121.3	116.9	93.9	109.0	118.1	129.8	110.8
Sep	<b>120.5</b>	130.3	164.0	95.0	119.8	114.3	121.3	117.2	96.1	111.3	118.1	130.4	111.0
Oct	<b>120.7</b>	131.0	164.3	95.0	119.8	114.8	121.3	117.5	96.1	111.4	118.1	130.6	111.3
Nov	<b>121.0</b>	131.3	167.4	94.9	120.1	115.1	121.5	117.6	96.1	111.4	118.4	130.9	111.5
Dec	<b>121.1</b>	131.7	167.5	94.7	120.1	115.3	121.5	117.1	96.1	111.5	118.3	131.1	111.5
<b>% change (y-o-y)</b>													
Jul	<b>0.9</b>	0.7	-0.8	-3.0	2.0	-1.7	0.0	6.7	-3.9	-2.4	1.0	1.0	-3.0
Aug	<b>0.2</b>	0.4	-1.0	-2.9	2.0	-1.7	0.0	2.1	-4.0	-2.2	1.1	0.7	-3.0
Sep	<b>0.3</b>	0.5	-0.9	-3.2	2.1	-0.8	-0.2	0.3	-1.6	-0.2	1.1	1.1	-3.0
Oct	<b>0.6</b>	1.2	-0.8	-3.1	2.1	-0.3	-0.2	0.8	-1.5	-0.2	1.1	1.2	-2.8
Nov	<b>0.2</b>	1.1	1.0	-3.1	2.0	-0.1	-0.2	-2.3	-1.3	-0.3	1.4	1.2	-2.6
Dec	<b>0.2</b>	0.7	1.1	-3.2	2.0	0.1	-0.4	-2.0	-1.3	-0.2	1.1	1.3	-2.4

**Source:** Department of Statistics, Malaysia

Malaysia: Industrial Production Index (2015=100), Jan – Dec 2018

Period	All Divisions	Mining	Manufacturing	Electricity
Weight	100.0	25.14	68.25	6.61
<b>2017</b>				
Jan	<b>107.9</b>	107.4	108.3	106.7
Feb	<b>99.0</b>	97.0	99.7	99.5
Mar	<b>108.7</b>	105.6	109.5	111.9
Apr	<b>103.4</b>	95.2	105.9	109.1
May	<b>108.3</b>	100.4	110.6	115.3
Jun	<b>109.8</b>	104.4	111.8	110.0
Jul	<b>110.6</b>	102.4	113.1	115.8
Aug	<b>110.1</b>	100.4	113.0	117.1
Sep	<b>109.7</b>	98.8	113.7	109.5
Oct	<b>112.6</b>	103.8	115.5	116.1
Nov	<b>111.3</b>	104.3	113.9	111.2
Dec	<b>112.1</b>	107.2	113.7	113.1
<b>2018</b>				
Jan	<b>113.8</b>	109.1	115.7	111.3
Feb	<b>102.0</b>	95.4	104.4	102.3
Mar	<b>112.1</b>	105.6	114.0	116.8
Apr	<b>108.1</b>	97.0	111.6	115.4
May	<b>111.5</b>	100.0	115.1	118.3
Jun	<b>111.0</b>	94.6	116.9	113.3
Jul	<b>113.4</b>	96.4	119.0	121.0
Aug	<b>112.5</b>	95.7	117.8	121.8
Sep	<b>112.1</b>	92.6	119.1	114.1
Oct	<b>117.4</b>	105.3	121.7	119.3
Nov	<b>114.2</b>	103.6	118.1	114.8
Dec				
<b>% change (y-o-y)</b>				
Jan	<b>5.4</b>	1.5	6.9	4.3
Feb	<b>3.0</b>	-1.7	4.7	2.8
Mar	<b>3.1</b>	0.0	4.1	4.4
Apr	<b>4.6</b>	1.8	5.3	5.8
May	<b>3.0</b>	-0.5	4.1	2.6
Jun	<b>1.1</b>	-9.4	4.5	3.0
Jul	<b>2.6</b>	-5.9	5.2	4.5
Aug	<b>2.2</b>	-4.6	4.3	4.0
Sep	<b>2.3</b>	-6.2	4.8	4.2
Oct	<b>4.3</b>	1.4	5.4	2.8
Nov	<b>2.6</b>	-0.7	3.7	3.2
Dec	<b>3.4</b>	1.0	4.4	2.7

Source: Department of Statistics, Malaysia

## **Acknowledgements**

Penang Institute would like to sincerely thank the following state and federal government departments as well as private associations for their continuous support and assistance in supplying important statistics for public use.

- Central Bank of Malaysia (BNM)
- Department of Agriculture, Penang
- Department of Fisheries, Penang
- Department of Statistics Malaysia (DOSM)
- Department of Veterinary Services, Penang
- Malaysia Airports Holdings Berhad
- Malaysian Association of Hotels (Penang Chapter)
- Malaysian Communications and Multimedia Commission (MCMC)
- Malaysian Investment Development Authority (MIDA)
- Malaysian Palm Oil Berhad (MPOB)
- Ministry of Education, Malaysia
- National Property Information Centre (NAPIC)
- Penang Port Sdn Bhd
- Penang State Economic Planning Division (BPEN)
- Penang State Education Department
- Penang State Health Department
- Penang Water Supply Corporation (PBA)
- Road Transport Department, Malaysia
- Rubber Industry Smallholders Development Authority (RISDA)
- Tenaga Nasional Berhad, Penang