



Electricity Rates

Peninsular Malaysia

Tenaga Nasional Berhad (TNB) is the main electricity power generator and supplier in Peninsular Malaysia.

This tariff is effective from 1st January 2017 and supersedes the previous tariff schedule which was effective from 1st January 2014.

However, as informed, no changes in electricity tariffs have been made by the government for a period of 3 years from 1 January 2018 to 31 December 2020, the rate remains as it has since last 2015.

As a matter of fact, the tariffs for SIT (special industrial tariffs) have been abolished since January 2016 for new consumers, while for existing users the rate is reduced by 2% per annum until 2020.

Tariff Category	Unit	New Rates (1 January 2017)
		sen / US cent
Tariff B - Low Voltage Commercial Tariff		
For overall monthly consumption between 0-200 kWh per month:		
For the first 200 kWh (1 -200 kWh) per month	sen/kWh	43.5 / 10.0
For the next kWh (201 kWh onwards) per month	sen/kWh	50.9 / 11.7
The Minimum Monthly Charge is	RM	7.20 / 1.66
Tariff C1 - Medium Voltage General Commercial Tariff		
For each kilowatt of maximum demand per month	RM/kW	30.30 / 6.97
For all kWh	sen/kWh	36.5 / 8.4
The Minimum Monthly Charge is	RM	600.00 / 138.00
Tariff C2 - Medium Voltage Peak/Off-Peak Commercial Tariff		
For each kilowatt of maximum demand per month during the peak period	RM/kW	45.10 / 11.03
For all kWh during the peak period	sen/kWh	36.5 / 8.4
For all kWh during the off-peak period	sen/kWh	22.4 / 5.2
The Minimum Monthly Charge is	RM	600.00 / 138.00
Tariff D - Low Voltage Industrial Tariff		
For overall monthly consumption between 0-200 kWh per month:		
For the first 200 kWh (1 -200 kWh) per month	sen/kWh	38.0 / 8.7
For the next kWh (201 kWh onwards) per month	sen/kWh	44.1 / 10.1
The Minimum Monthly Charge is	RM	7.20 / 1.66
Tariff Ds – Special Industrial Tariff (for consumers who qualify only)		
For all kWh	sen/kWh	44.0 / 10.1
The Minimum Monthly Charge is	RM	7.20 / 1.66
Tariff E1 - Medium Voltage General Industrial Tariff		
For each kilowatt of maximum demand per month	RM/kW	29.60 / 6.80
For all kWh	sen/kWh	33.7 / 7.8
The Minimum Monthly Charge is	RM	600.00 / 138.00
Tariff E1s – Special Industrial Tariff (for consumers who qualify only)		
For each kilowatt of maximum demand per month	RM/kW	23.70 / 5.50
For all kWh	sen/kWh	33.6 / 7.7
The Minimum Monthly Charge is	RM	600.00 / 138.00
Tariff E2 - Medium Voltage Peak/Off-Peak Industrial Tariff		
For each kilowatt of maximum demand per month during the peak period	RM/kW	37.00 / 8.51
For all kWh during the peak period	sen/kWh	35.5 / 8.2
For all kWh during the off-peak period	sen/kWh	21.9 / 5.0
The Minimum Monthly Charge is	RM	600.00 / 138.00
Tariff E2s - Special Industrial Tariff (for consumers who qualify only)		
For each kilowatt of maximum demand per month during the peak period	RM/kW	37.00 / 8.51
For all kWh during the peak period	sen/kWh	35.5 / 8.2
For all kWh during the off-peak period	sen/kWh	21.9 / 5.0
The Minimum Monthly Charge is	RM	600.00 / 138.00



Tariff E3 - High Voltage Peak/Off-Peak Industrial Tariff		
For each kilowatt of maximum demand per month during the peak period	RM/kW	35.50 / 8.17
For all kWh during the peak period	sen/kWh	33.7 / 7.8
For all kWh during the off-peak period	sen/kWh	20.2 / 4.6
The Minimum Monthly Charge is	RM	600.00 / 138.00
Tariff E3s - Special Industrial Tariff (for consumers who qualify only)		
For each kilowatt of maximum demand per month during the peak period	RM/kW	35.50 / 8.17
For all kWh during the peak period	sen/kWh	33.7 / 7.8
For all kWh during the off-peak period	sen/kWh	20.2 / 4.6
The Minimum Monthly Charge is	RM	600.00 / 138.00

Source: Tenaga Nasional Berhad - www.tnb.com.my

Sabah

Sabah Electricity Sdn. Bhd. (SESB) generates and distributes electricity in the State of Sabah and the Federal Territory of Labuan, Malaysia's international offshore financial centre.

Effective 1st January 2014, the new electricity tariff for Sabah is as follows:

Commercial Tariffs - for offices, shops, restaurants and hotels	per kWh	
	sen	US cent
Tariff CM1 (Low Voltage Commercial Tariff)		
1st 200kWh(1-200 kWh)/month	38.5	8.86
Next kWh(201 kWh onwards)/month	39.5	9.09
Minimum charge per month: RM15 (US\$3.45)		
Tariff CM2 (Medium Voltage General Commercial Tariff)		
All units	32.4	7.45
For each kW of maximum demand per month	23.20	5.34
Minimum charge per month: RM1,000 (US\$230)		
Tariff CM3 (Medium Voltage Peak/Off-Peak Commercial Tariff)		
For all kWh during the peak period	32.4	7.45
For all kWh during the off-peak period	19.5	4.49
For each kW of maximum demand per month during peak period	32.60	7.50
The minimum monthly charge is RM1,000 (US\$230)		

Industrial Tariffs - for factories	per kWh	
	sen	US cent
Tariff ID1 (Low Voltage Industrial Tariff)		
All units	37.60	8.65
Minimum charge per month : RM15 (US\$3.45)		
Tariff ID2 (Medium Voltage General Industrial Tariff)		
All units	26.8	6.16
For each kW of maximum demand per month	21.75	5.00
Minimum charge per month: RM1,000 (US\$230)		
Tariff ID3 (Medium Voltage Peak/Off-Peak Industrial Tariff)		
For all kWh during the peak period	28.6	6.58
For all kWh during the off-peak period	18.0	4.14
For each kW of maximum demand per month during peak period	28.00	6.44
The minimum monthly charge is RM1,000 (US\$230)		

Source: Sabah Electricity Sdn. Bhd. - www.sesb.com.my



Sarawak

Syarikat SESCO Berhad (SESCO) generates and distributes electricity in the State of Sarawak.

Commercial Tariffs - for offices, shops, restaurants and hotels	per kWh	
	sen	US cent
Tariff C1 - Commercial		
1 – 100 units	20.0	4.6
1 – 200 units	24.0	5.5
1 – 300 units	26.0	6.0
1 – 400 units	28.0	6.4
1 – 500 units	30.0	6.9
1 – 3000 units	31.5	7.2
1 – 10000 units	32.0	7.4
1 – 20000 units	31.0	7.1
1 – above 20000 units	30.0	7.0
<i>Minimum charge per month: RM10 (US\$2.30)</i>		
Tariff C2 – Commercial Demand		
All units	24.5	5.6
For each kW of maximum demand per month: RM16 (US\$3.68)		
<i>Minimum charge: RM16 (US\$3.68) per kW x billing demand</i>		
Tariff C3 – Commercial Peak / Off Peak Demand		
Peak period (0700-2400 hours)	24.5	5.6
Off-peak period (0000-0700 hours)	13.9	3.2
For each kW of maximum demand per month during peak period: RM20 (US\$4.60)		
<i>Minimum monthly charge: RM20 (US\$4.60) per kW x billing demand</i>		

Industrial Tariffs - for factories	per kWh	
	sen	US cent
Tariff I1 - Industrial		
1 – 100 units	24.0	5.5
1 – 3000 units	25.0	5.8
1 – Above 3000 units	26.0	6.0
<i>Minimum charge per month: RM10 (US\$2.30)</i>		
Tariff I2 – Industrial Demand		
All units	21.7	5.0
For each kW of maximum demand per month: RM16 (US\$3.68)		
<i>Minimum charge: RM16 (US\$3.68) per kW x billing demand</i>		
Tariff I3 Industrial Peak/Off-peak Demand		
Peak period (0700-2400 hours)	22.9	5.3
Off-peak period (0000-0700 hours)	13.9	3.2
For each kW of maximum demand per month during peak period: RM20 (US\$4.60)		
<i>Minimum charge: RM20 (US\$4.60) per kW x billing demand</i>		

Source: Syarikat SESCO Berhad - www.sesco.com.my



Water Rates

In Malaysia, state governments are responsible for the development, operation and maintenance of water supplies. Entities for states Water Supply Authorities in Malaysia are; Public Works Department, Water Supply Department, Water Supply Board and Water Supply Company.

State	per m ³	
	RM	US cent
Johor		
Industrial/Commercial		
0 - 35 m ³	2.80	0.64
More than 35 m ³	3.30	0.76
Minimum charge	30.00	6.90
Kedah		
Commercial		
0 - 50 m ³	1.40	0.32
51 - 200 m ³	1.50	0.35
201 - 350 m ³	1.60	0.37
More than 350 m ³	1.80	0.41
Minimum charge	15.00	3.45
<i>(including high rise residential building, commercial building, shopping complex, plantation, farming, and swimming pool except hotel's swimming pool)</i>		
Industrial, Hotel and Construction (temporary supply)		
0 - 1,000 m ³	1.40	0.32
1,001 - 10,000 m ³	1.60	0.37
10,001 - 50,000 m ³	1.80	0.41
More than 50,001 m ³	2.10	0.48
Minimum charge	15.00	3.45
<i>(including swimming pool and theme park)</i>		
Special Industry		
0 - 10,000 m ³	1.05	0.24
10,001 - 50,000 m ³	1.15	0.26
More than 50,000 m ³	1.20	0.28
Minimum charge	15.00	3.45
Kelantan		
Commercial		
Minimum charge	17.20	3.96
Industrial		
0 - 50 m ³	1.76	0.40
More than 50 m ³	1.80	0.41
Minimum Charge	17.70	4.07
Melaka		
Industrial/Commercial		
0 - 50 m ³	2.00	0.46
51 - 100 m ³	2.05	0.47
More than 100 m ³	2.15	0.49
Minimum charge	25.00	5.75

State	per m ³	
	RM	US cent
Negeri Sembilan		
Industrial/Commercial		
0 - 35 m ³	1.85	0.43
More than 35 m ³	2.70	0.62
Minimum charge	15.00	3.45
Pahang		
Industrial/Commercial (Industrial use in the approved industrial zones)		
0 - 227 m ³	0.92	0.21
More than 227 m ³	0.84	0.19
Minimum charge	30.00	6.90
Trade	1.45	0.33
Minimum charge	20.00	4.60
Part-Trade	0.99	0.23
Minimum charge	10.00	2.30
Ports	1.45	0.33
Pulau Pinang		
Industrial/Commercial (Trade normal)		
0 - 20 m ³	0.85	0.20
21 - 40 m ³	1.05	0.24
41 - 200 m ³	1.30	0.30
More than 200 m ³	1.45	0.33
Minimum charge	12.00	2.76
Trade (Special)		
Flat rate per m ³	3.00	0.69
Minimum charge	12.00	2.76
Trade (Shipping)		
Flat rate per m ³	7.00	1.61
Minimum charge	50.00	11.51
Perak		
Industrial/Commercial		
0 - 10 m ³	1.20	0.28
11-20 m ³	1.40	0.32
More than 20 m ³	1.61	0.37
Minimum charge	12.00	2.76
Perlis		
Industrial/Commercial		
Trade	1.30	0.30
Minimum charge	8.00	1.84
Part - Trade	1.10	0.25
Minimum charge	5.00	1.15



Water Rates

State	per m ³	
	RM	US cent
Terengganu		
Industrial	1.15	0.26
Minimum charge	50.00	11.50
Commercial		
Less than 70 m ³	0.95	0.22
More than 70 m ³	1.15	0.26
Minimum charge	15.00	3.45
Federal Territory of Labuan		
Industrial/Commercial		
0 – 35 m ³	1.70	0.39
More than 35 m ³	2.20	0.51
Minimum Charge	17.00	3.91
Selangor / Federal Territory of Kuala Lumpur & Putrajaya		
Industrial/Commercial		
0 - 35 m ³	2.07	0.48
More than 35 m ³	2.28	0.52
Minimum charge (inclusive of Public swimming pool, service apartments and shop houses)	36.00	8.28
Sabah		
Industrial		
0 – 70 m ³	1.60	0.37
More than 70 m ³	2.00	0.46
Minimum charge	70.00	16.10
Commercial		
0 – 70 m ³	1.60	0.37
More than 70 m ³	2.00	0.46
Minimum charge	22.50	5.18
Sarawak (Kuching, Sibul, Sri Aman, Miri, Limbang, Sarikei, Kapit)		
Commercial		
1-25 m ³	0.97	0.22
More than 25 m ³	1.06	0.24
Minimum charge	22.00	5.06
Domestic/Commercial		
1-25 m ³	0.83	0.19
More than 25 m ³	0.95	0.22
Minimum charge	18.70	4.30
Industrial (except for Kuching and Sibul)		
1-25 m ³	1.05	0.24
More than 25 m ³	1.32	0.30
Minimum charge	24.20	5.57

State	per m ³	
	RM	US cent
Sarawak (Bintulu)		
Industrial		
0-23 m ³ (min charge)	24.20	5.57
More than 23 m ³	1.21	0.28
Commercial		
0-23 m ³ (min charge)	20.90	4.81
More than 23 m ³	0.99	0.23
Domestic/Commercial		
0-25 m ³	0.83	0.19
More than 25 m ³	0.95	0.22
Minimum charge	18.70	4.30
Sarawak (Other parts of Sarawak)		
Industrial		
0 - 25 m ³	0.95	0.22
More than 25 m ³	1.20	0.28
Minimum charge	22.00	5.06
Commercial		
0 - 25 m ³	0.88	0.20
More than 25 m ³	0.96	0.22
Minimum charge	20.00	4.60
Domestic/Commercial		
0 - 25 m ³	0.75	0.17
More than 25 m ³	0.86	0.20
Minimum charge	17.00	3.91

Source: National Water Services Commission – www.span.gov.my



Sewerage Rates

Indah Water Konsortium Sdn Bhd, a company owned by Minister of Finance Incorporated, is Malaysia's national sewerage company which has been entrusted with the task of developing and maintaining a modern and efficient sewerage system for all Malaysians. Since then, Indah Water has taken over the sewerage services from local authorities in all areas except the States of Kelantan, Sabah, Sarawak, Majlis Bandaraya Johor Bahru and Majlis Perbandaran Pasir Gudang.

Domestic Customers

Low cost houses and government quarters in categories F,G,H and I (receiving either Individual Septic Tank or Connected Sewerage Services)	RM2 (US\$0.46) per month
Houses in Kampung, New Villages and Estates (receiving either Individual Septic Tank or Connected Sewerage Services)	RM3 (US\$0.69) per month
Premises and government quarters in categories A,B,C,D and E receiving Individual Septic Tank Services.	RM6 (US\$1.38) per month
Premises and government quarters in categories A, B, C, D and E receiving connected Sewerage Services	RM8 (US\$1.84) per month

Industrial Customers

Premises receiving Individual Septic Tanks Services	RM2.00 (US\$0.46) per head per month
Premises with Connected Sewerage Services	RM2.50 (US\$0.58) per head per month
Industrial customers will be charged based on the total number of employees	

Government Premises

Monthly service charges for Government premises is a sum of the Basic Charge, based on the type of sewerage services and Excess Charge based on average water consumption in excess of 100 meter cube (m³).

MONTHLY BASIC CHARGE		
Sewerage Services	Basic Charge (RM)	Basic Charge (US\$)
Connected	40.00	9.20
Individual Septic Tank	25.00	5.75

MONTHLY EXCESS CHARGE		
Water Usage	Excess Charge (RM)	Excess Charge (US\$)
Up to 100 m ³	No charge	No charge
More than 100 m ³	45 cent per m ³	10 cent per m ³
More than 200 m ³	95 cent per m ³	22 cent per m ³

Commercial Customers

Monthly sewerage services charges for commercial premises is the sum of the Basic Charge based on the premises' Annual Value and the Excess Charge based on average water consumption in excess of 100 meter cube (m³).

Annual Value of Property		Monthly basic charge			
		Premises receiving connected sewerage services		Premises with individual septic tanks	
RM	US\$	RM	US\$	RM	US\$
2,000 or less	460 or less	8	1.84	7	1.61
2,001 - 5,000	460 - 1,150	14	3.22	8	1.84
5,001 - 10,000	1,150 - 2,300	20	4.60	14	3.22
10,001 - 20,000	2,300 - 4,600	26	5.98	19	4.37
20,001 - 30,000	4,600 - 6,900	29	6.67	21	4.83
30,001 - 40,000	6,900 - 9,200	32	7.36	23	5.29
40,001 - 50,000	9,200 - 11,500	35	8.05	25	5.75
50,001 - 60,000	11,500 - 13,800	38	8.74	27	6.21
60,001 - 70,000	13,800 - 16,100	41	9.43	29	6.67
70,001 - 80,000	16,100 - 18,400	44	10.12	31	7.13
80,001 - 90,000	18,400 - 20,700	47	10.81	33	7.59
90,001 - 100,000	20,700 - 23,000	50	11.50	35	8.05
100,001 - 200,000	23,000 - 46,000	180	41.40	120	27.60
200,001 - 400,000	46,000 - 92,000	495	114	330	75.90
400,001 - 600,000	92,000 - 138,000	522	120	348	80.04
600,001 - 800,000	138,000 - 184,000	1,980	455	1,320	304
800,001 - 1,000,000	184,000 - 230,000	2,160	497	1,440	331
1,000,001 - 3,000,000	230,000 - 690,000	4,320	994	2,880	662
3,000,001 - 5,000,000	690,000 - 1,150,000	8,800	2,024	5,400	1,242
5,000,001 - 7,000,000	1,150,000 - 1,610,000	9,200	2,116	6,000	1,380
More than 7,000,000	More than 1,610,000	9,600	2,208	6,600	1,518

Monthly Excess Charge	
Water Usage	Excess Charge
Up to 100 m ³	No charge
More than 100 m ³ but less than 200 m ³	30 sen (US\$0.07) per m ³
More than 200 m ³	45 sen (US\$0.10) per m ³

The excess charges are subject to an annual revision based on the water consumption data for the previous year that is obtained from the Water Authority.

Source: Indah Water Konsortium Sdn Bhd - www.iwk.com.my



Scheduled Waste Treatment Rates

Kualiti Alam Sdn. Bhd. (Cenviro. Sdn. Bhd.) is the designated company providing off-site scheduled waste treatment disposal services in Peninsular Malaysia. Its waste management centre is located at Bukit Nanas in Negeri Sembilan. For non-scheduled wastes, collection and disposal rates vary according to location and contractor.

Waste Group	Waste Type
A	Mineral Oil Wastes <i>Wastes containing lubricating oil, hydraulic oil, etc.</i>
B	Organic Chemical Wastes Containing Halogens and/or Sulphur > 1% <i>Freon, PVC wastes, chloroform, solvents, capacitors and transformers containing PCB, etc.</i>
C	Waste Solvents Containing Halogens and/or Sulphur < 1% <i>Acetone, alcohols (eg. ethanol, methanol), benzene, turpentine, xylene, etc. Waste should be pumpable, containing < 50% water and 18MJ/kg calorific value</i>
H	Organic Chemical Wastes Containing Halogens and/or Sulphur < 1% <i>Glue, latex, paint, phenol, printing ink, synthetic oils, soap, epoxy, etc.</i>
K	Wastes Containing Mercury <i>Mercury, vapour lamps, COD-fluids, mercury batteries, etc.</i>
T	Pesticide Wastes <i>Insecticides, fungus and weed killers, rat poison, etc</i>
X	Inorganic Wastes <i>Acids, alkaline, sodium hypochlorite, inorganic salts, metal hydroxide sludge, chromate and cyanide waste, etc.</i>
Z	Miscellaneous <i>Medicine wastes, lab-packs, asbestos wastes, mineral sludges, isocyanates (MDI,TDI), batteries, etc.</i>

Organic Wastes for Incineration

Waste Group	Packaged Waste*				Bulk Waste			
	Pumpable Liquid		Solid		Pumpable Liquid		Solid	
	per tonne / per pallet				per tonne / per pallet			
	RM	US\$	RM	US\$	RM	US\$	RM	US\$
A	810	186	-	-	630	145	-	-
B	3,150	725	3,600	828	-	-	-	-
C	1,350	311	-	-	-	-	-	-
H/Z	1,890	435	2,790	642	1,800	414	2,700	621
T	3,150	725	3,600	828	-	-	-	-

Tenorm Waste for Incineration

Waste Group	Packaged Waste* per tonne / per pallet		Bulk Waste per tonne / per pallet	
	RM	US\$	RM	US\$
Z	4000	920	Not Applicable	

Inorganic Wastes for Physical/Chemical Treatment

Waste Group	800-litre Pallet Tank per tonne / per pallet		200-litre Drum per tonne / per pallet	
	RM	US\$	RM	US\$
Acid Waste Without Chromate (X)	1,440	331	1,620	373
Alkaline Waste Without Cyanide (X)	1,440	331	1,620	373
Chromate Waste (X)	1,800	414	1,980	455
Cyanide Waste (X)	1,800	414	1,980	869
Mercury Waste (K)	3,600	828	3,780	869

Inorganic Wastes for Solidification

Waste Group	Packaged Waste* per tonne / per pallet		Waste in Bulk per tonne / per pallet	
	RM	US\$	RM	US\$
X / Z	810	186	765	176

Inorganic Waste for Direct Landfill

Waste Group	Packaged Waste* per tonne / per pallet		Waste in Bulk per tonne / per pallet	
	RM	US\$	RM	US\$
X / Z	495	114	450	104

Rubber Sludge Waste for Rubber Sludge Landfill

Waste Group	Packaged Waste* per tonne / per pallet		Waste in Bulk per tonne / per pallet	
	RM	US\$	RM	US\$
X	700	161	Not applicable	

Encapsulation

Waste Group (Z)	Packaged Waste* per tonne / per pallet	
	RM	US\$
Contaminated Crushed Drum and Other Contaminated Waste	1,500	345

Cementation

Waste Group (Z)	Packaged Waste* per tonne / per pallet	
	RM	US\$
Dry Cell Batteries and Other Miscellaneous Waste	900	207

*Note: Packaged waste refers to wastes packed in standard 200-litre drums or 1m³ PP Bags.

Transportation Rates

KM	STATE	Per Pallet (RM)				Per Metric Tonne	
		1st Tier		2nd Tier			
		min. 18 pallet		min. 18 pallet			
		RM	US\$	RM	US\$	RM	US\$
114	Negeri Sembilan	52.88	12.16	26.44	6.08	66.10	15.20
248	Kuala Lumpur (Wilayah Persekutuan)	59.73	13.74	29.87	6.87	74.66	17.17
274	Melaka	60.71	13.96	30.36	6.98	75.89	17.45
374	Selangor	65.61	15.09	32.80	7.54	82.01	18.86
652	Perak	79.32	18.24	39.66	9.12	99.14	22.80
722	Johor	82.25	18.92	41.13	9.46	102.82	23.65
760	Pahang	84.21	19.37	42.11	9.69	105.26	24.21
1050	Pulau Pinang	113.59	26.13	56.79	13.06	141.98	32.66
1152	Terengganu	180.17	41.44	90.09	20.72	225.22	51.80
1166	Kedah	181.15	41.67	90.58	20.83	226.44	52.08
	Kedah (Kulim)	142.24	32.72	71.12	16.36	177.80	40.89
1190	Kelantan	183.11	42.12	91.56	21.06	228.89	52.64
1240	Perlis	184.09	42.34	92.04	21.17	230.11	52.93

Note: For waste on pallets, the rates are quote in 2 tiers. The 1st tier is for a minimum of 18 pallets and the 2nd is for any pallet above the minimum 18 pallets in the same consignment.

Source: www.cenviro.com.my



Gas and Fuel Costs

	Per litre	
	RM	US\$
Petrol (Unleaded)		
- Retail		
RON 95	1.25	0.29
RON 97	1.55	0.36
Diesel		
- Retail	1.40	0.32

	Per kg	
	RM	US\$
LPG		
- Retail		
10 kg	19.00	4.37
12 kg	22.80	5.24
14 kg	26.60	6.12

Note: Kuala Lumpur prices quoted

* Prices fluctuate from time to time based on contracts and current crude oil market condition.