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2003



Statistics of Electricity Supply Industry in *Malaysia*

Statistik Industri Bekalan Elektrik Malaysia

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■ Profil Negara
Country Profile

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Area	329,733 sq.km	% Change in Output	
Climate	<ul style="list-style-type: none"> - Tropical Type - Average temperature between 20° C to 32° C - Average rainfall of about 3540 mm per annum 	Manufacturing	4.1% p
Population	24.5 p million with a multi racial community comprising Malays, Chinese, Indians, Kadazans, Bajaus, Muruts, Kelabits, Dayaks, Ibans and others	Agriculture	0.3% p
Labour force	10.2 million p	Mining & Quarrying	4.5% p
Real GDP	RM219.3 billion p (+4.2% p)	Construction	2.3% p
Nominal Per Capita Income	RM 13.716 p	Services	4.5% p
Real GNP	RM202.1 billion p (4.8% p)	Major Export Products	Manufactured goods
Nominal GNP	RM 336.4 billion p (+8.9% p)	CPI (2000 = 100)	1.8% p
Current Account Balance	27.4 billion p (+8.1% p of GNP)*	PPI (1989 = 100)	4.4% p
Foreign Reserves	RM 131.4 billion p (5.4 months of retained imports)*	Total Electricity Generation	80,880 GWh
Gross National savings	34.4 p (as % of GNP)*	Total Electricity Consumption	69,670 GWh

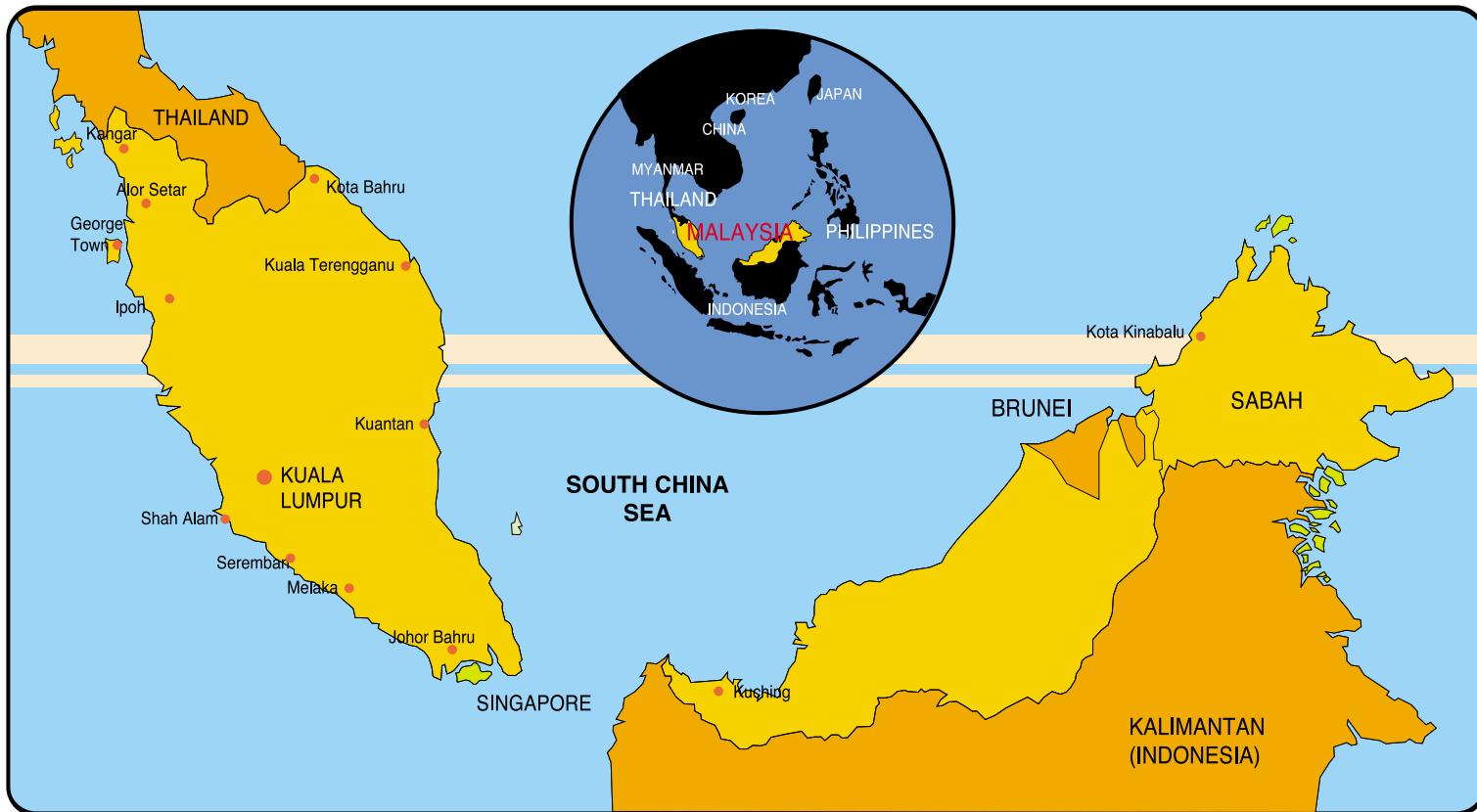
P : Preliminary * At end of December 2002



■ Peta Malaysia
Map of Malaysia

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MALAYSIA





■ Tinjauan Ke Atas Industri
Bekalan Elektrik Di Malaysia
*Overview of the Electricity Supply
Industry in Malaysia*

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Overview of the Electricity Supply Industry in Malaysia

Privatisation and deregulation were two of the most talk about topics of the utility industries in the 1990s. In many countries, the vertically integrated electricity supply industries were unbundled into generation, transmission, distribution, and supply activities and power pools created for trading electricity. Malaysia has successfully privatized the electricity supply industry since early 1990s. However, after in depth studies, Malaysia did not join the other countries in the "dash for deregulation". The power sector of Malaysia is likely to remain, in the near future, as regulated industry with vertically integrated utilities while the government is searching for an industry structure, which is suitable for the country.

The three main electricity utilities in Malaysia operate in three different territories, i.e. Tenaga Nasional Berhad (TNB) in Peninsula Malaysia, Sabah Electricity Supply Sendirian Berhad (SESB) in the State of Sabah and Sarawak Electricity Supply Corporation (SESCO) in the State of Sarawak.

They undertake generation, transmission, distribution and supply activities in the respective areas of supply. They are investor-owned entities with government as the major share holder.

However, the government has created competition, to a certain extent, in generation by licensing private sector to build, own and operate power generating plants as independent power producers (IPP) and supply electricity to the utilities through negotiated power purchase agreements (PPA). To date there are 23 IPP in the country. In the year 2002, the IPP contributed 6,031MW (40%) of the combined generation capacity of 15,121MW owned by the IPP and the three utilities and produced 34,547GWh (45%) of the total 76,696GWh of electricity generated.

This industry structure is believed, at least for the near future, to be most suitable in meeting the social-economic objectives of the country and the national interests. It has enabled Malaysia in maintaining stable, reasonable, affordable and competitive electricity prices, providing secure, reliable and quality supply and in securing optimum investment for the electricity supply industry.

In the year 2002, the sum of the maximum demands of the three utilities increased 7.0% from 11,055MW in the year 2001 to 11,834MW. The sales of energy increased 4.8% from 62,514GWh to 65,484GWh while the number of consumers increased 4.8% from 5,868,095 to 6,156,600. The generation mix of the three utilities and IPP was 75.0% gas, 11.0% coal, 7.1% hydro, 4.5% oil and the remaining others.

The grid connected capacity in Peninsula increased from 12,680MW in the year 2001 to 13,472MW with the addition of 3x143MW gas turbines from a new IPP, GB3, and another 2x230MW gas turbines from another new IPP, Pahlawan.

In 2002, the reliability and quality of supply continued to improve compared with the previous year. The SAIDI of TNB was 128 minutes/customer/year compared with 266 minutes in the year 2001. This figure is comparable with many developed countries.

In order to contribute to the reduction of green house gases, the government has embarked on programmes in promoting efficient use of energy as well as increasing the use of renewable energy, particularly biomass from the agriculture sector, for power generation. The Small Renewable Energy Program launched in 2001 is aiming at encouraging private sector to use renewable resources, especially oil palm waste from the palm oil industry, to generate electricity and supply to the local grids.

Given the uncertainties of the global economic environment, and particularly in this region, the electricity demand in Malaysia in the coming years is expected to increase moderately with a single digit rate of growth.

However, effort will be taken to further improve the performance of the electricity supply industry especially in the reliability and quality of supply and to maintain stable and competitive electricity prices. The generation projects which have been approved to be implemented in the next few years and those currently under construction will provide sufficient capacity to meet the increasing demand in the near future.



Kadar Tarif Di Malaysia *Tariff Rates in Malaysia*

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TARIFF RATES OF TENAGA NASIONAL BERHAD

No	Tariff Category	Unit	Rates	Promotional Discount*
1.	Tariff A – Domestic Tariff For the first 200 units per month For the next 800 units per month For additional units per month Minimum monthly charge	sen/kWh sen/kWh sen/kWh RM	21.80 25.80 27.80 2.50	Nil Nil Nil
2.	Tariff B – Low Voltage Commercial Tariff For all units Minimum monthly charge	sen/kWh RM	28.80 6.00	-4
3.	Tariff C1 – Medium Voltage General Commercial Tariff For each kilowatt of maximum demand per month For all units Minimum monthly charge	RM/kW sen/kWh RM	17.30 20.80 500.00	Nil -4
4.	Tariff C2 – Medium Voltage Peak/Off-Peak Commercial Tariff For each kilowatt of maximum demand per month during the Peak Period For all units during the Peak Period For all units during the Off-Peak Period Minimum monthly charge	RM/kW sen/kWh sen/kWh RM	25.70 20.80 12.80 500.00	Nil -4 Nil
5.	Tariff D – Low Voltage Industrial Tariff For all units <i>Specially for customers who qualify</i> For all units Minimum monthly charge	sen/kWh sen/kWh RM	25.80 23.80 6.00	-4 -4

TARIFF RATES OF TENAGA NASIONAL BERHAD

No	Tariff Category	Unit	Rates	Promotional Discount*
6.	Tariff E1 – Medium Voltage General Industrial Tariff For each kilowatt of maximum demand per month For all units <i>Specially for customers who qualify</i> For each kilowatt of maximum demand per month For all units Minimum monthly charges	RM/kW sen/kWh RM	17.30 19.80 3.20 18.80 500.00	Nil -4 Nil -4 Nil
7.	Tariff E2 – Medium Voltage Peak / Off-Peak Industrial Tariff For each kilowatt of maximum demand per month during the Peak Period For all units during the Peak Period For all units during the Off-Peak Period <i>Specially for customers who qualify</i> For each kilowatt of maximum demand per month during the Peak Period For all units during the Peak Period For all units during the Off-Peak Period Minimum monthly charges	RM/kW sen/kWh sen/kWh RM	21.70 20.80 12.80 18.40 18.80 10.80 500.00	Nil -4 Nil Nil Nil -4 Nil
8.	Tariff E3 – High Voltage Peak / Off-Peak Industrial Tariff For each kilowatt of maximum demand per month during the Peak Period For all units during the Peak Period For all units during the Off-Peak Period <i>Specially for customers who qualify</i> For each kilowatt of maximum demand per month during the Peak Period For all units during the Peak Period For all units during the Off-Peak Period Minimum monthly charges	RM/kW sen/kWh sen/kWh RM	20.80 19.80 11.80 16.20 17.80 9.80 500.00	Nil -4 Nil Nil -4 Nil

TARIFF RATES OF TENAGA NASIONAL BERHAD

No	Tariff Category	Unit	Rates	Promotional Discount*
9.	Tariff F – Low Voltage Mining Tariff For all units Minimum monthly charge	sen/kWh RM	21.80 100.00	-4
10.	Tariff F1 – Medium Voltage General Mining Tariff For each kilowatt of maximum demand per month For all units Minimum monthly charge	RM/kW sen/kWh RM	12.00 17.80 100.00	Nil -4
11.	Tariff F2 – Medium Voltage Peak / Off-Peak Mining Tariff For each kilowatt of maximum demand per month during the Peak Period For all units during the Peak Period For all units during the Off-Peak Period Minimum monthly charge	RM/kW sen/kWh sen/kWh RM	17.00 17.80 9.80 100.00	Nil -4 Nil
12.	Tariff G – Public & Street Lighting Tariff For all units (including maintenance) For all units (excluding maintenance)	sen/kWh sen/kWh	17.30 10.80	Nil Nil
13.	Tariff G1 – Neon Light & Floodlight Tariff For all units	sen/kWh	11.80	Nil

N.B

1. Consumers, whose consumption for the month exceeds 10 percent of the average monthly consumptions over the previous 6 months, are eligible for the promotional discount for that particular months.
2. 'Specially for consumers who qualify' means industrial customers with electricity cost exceeding 5% of the total cost of production of their products.

3. Low Voltage : Below 6.6kV
Medium Voltage : 6.6kV to 66kV
High Voltage : Exceeding 66kV
4. Peak Period : 0800 hours to 2200 hours
Off-Peak Period : 2200 hours to 0800 hours

TARIFF RATES OF TENAGA NASIONAL BERHAD

Rates for Top Up and Standby Services

Tariff Class	Unit	Top up	Rates			Tariff Class	Unit	Top up	Rates					
			Standby						Standby					
			Firm	Non-Firm					Firm	Non-Firm				
1. Tariff C1 - Medium Voltage General Commercial Tariff Maximum Demand Charge For all Units	RM/kW/month sen/unit	17.30 20.80	25.00	9.30		5. Tariff E3 - High Voltage Peak/Off-Peak Industrial Tariff Maximum Demand Charge For all units during the Peak Period For all units during the Off-Peak Period Special for customers who Qualify Maximum Demand Charge For all units during the Peak Period For all units during the Off-Peak Period	RM/kW/month sen/unit	20.80 19.80 11.80	25.00	7.60				
2. Tariff C2 - Medium Voltage Peak/Off-Peak Commercial Tariff Maximum Demand Charge For all units during the Peak Period For all units during the Off-Peak Period	RM/kW/month sen/unit	25.70 20.80 12.80	25.00	10.50		6. Tariff F1 - Medium Voltage General Mining Tariff Maximum Demand Charge For all Units	RM/kW/month sen/unit	16.20 17.80 9.80	25.00	5.90				
3. Tariff E1 - Medium Voltage Peak/Off-Peak Industrial Tariff Maximum Demand Charge For all Units Special for customers who qualify Maximum Demand Charge For all Units	RM/kW/month sen/unit	17.30 19.80	25.00	8.80		7. Tariff F2 - Medium Voltage Peak/Off-Peak Mining Tariff Maximum Demand Charge For all units during the Peak Period For all units during the Off-Peak Period	RM/kW/month sen/unit	12.00 17.80	25.00	4.80				
4. Tariff E2 - Medium Voltage Peak/Off-Peak Industrial Tariff Maximum Demand Charge For all units during the Peak Period For all units during the Off-Peak Period Special for customers who qualify Maximum Demand Charge For all units during the Peak Period For all units during the Off-Peak Period	RM/kW/month sen/unit	21.70 20.80 12.80	25.00	8.70						6.70				

TARIFF RATES FOR SABAH ELECTRICITY SENDIRIAN BERHAD (SESB)

No	Tariff Category	Unit	Rates
1.	Domestic 0-40 units per month 41-200 units per month Above 200 units per month Minimum monthly charge	sen/kWh sen/kWh sen/kWh RM	24 16 28 5.00
2.	Commercial Class 1 0-1,000 units per month Above 1,000 units per month Minimum monthly charge	sen/kWh sen/kWh RM	32 27 15.00
3.	Commercial Class 2 (For consumers with maximum demand above 500 kW) Maximum demand charge per month All units per month Minimum monthly charge	RM/kW sen/kWh RM	15.00 25 1,000.00
4.	Industrial Class 1 0-2,000 units per month Above 2,000 units per month Minimum monthly charge	sen/kWh sen/kWh RM	32 26 15.00
5.	Industrial Class 2 (For consumers with maximum demand above 500 kW) Maximum demand charge per month All units per month Minimum monthly charge	RM/kW sen/kWh RM	15.00 20 1,000.00
6.	Public Lighting All units per month	sen/kWh	30

TARIFF RATES FOR WILAYAH PERSEKUTUAN LABUAN

Tariff Structure and Rates

No	Classifications	Unit	Rates
1.	Domestic (DM) 0-40 kWh per month 41-200 kWh per month 201- above kWh per month Minimum charge	sen/kWh sen/kWh sen/kWh RM	24 16 28 5.00
2.	Low Voltage Commercial (B) For all units Minimum Charge	sen/kWh RM	24 6.00
3.	Medium Voltage General Commercial (C1) For each kilowatt of maximum demand per month All units Minimum charge	RM/kW sen/kWh RM	12.00 18 500.00
4.	Medium Voltage Peak/Off Peak Commercial (C2) For each kilowatt of maximum demand per month during the peak period All units during the peak period All units during the off peak period Minimum charge	RM/kW sen/kWh sen/kWh RM	19.00 18 8 500.00
5.	Low Voltage Industrial Tariff (D) For all units Minimum charge	sen/kWh RM	21 6.00
6.	Medium Voltage General industrial (E1) For each kilowatt of maximum demand per month All units Minimum charge	RM/kW sen/kWh RM	12.00 16 500.00

TARIFF RATES FOR WILAYAH PERSEKUTUAN LABUAN

Tariff Structure and Rates

No	Classifications	Unit	Rates
7.	Medium Voltage Peak / Off Peak Industrial (E2) For each kilowatt of maximum demand per month during the peak period All units during the peak period All units during the off peak period Minimum charge	RM/kW sen/kWh sen/kWh RM	17.00 16 8 500.00
8.	Low Voltage Mining (F) For all units Minimum charge	sen/kWh RM	19 100.00
9.	Medium Voltage Mining (F1) For each kilowatt of maximum demand per month All units Minimum charge	RM/kW sen/kWh RM	12.00 16 100.00
10.	Public Lighting All units	sen/kWh	30

TARIFF RATES FOR SARAWAK ELECTRICITY SUPPLY CORPORATION (SESCO)

No	Tariff Category	Unit	Rates
	COMMERCIAL		
1.	Tariff C1 (Applicable to consumer taking commercial supply whose estimated monthly consumption does not exceed 100,000 kWh)		
	0-100 units per month	sen/kWh	40
	101-5000 units per month	sen/kWh	34
	Above 5000 units per month	sen/kWh	30
	Minimum monthly charge	RM	10.00
2.	Tariff C2 (Generally available on application to consumer taking commercial supply whose estimated monthly consumption exceeds 100,000 kWh)		
	Maximum demand price	RM/kW	12.00
	Energy Price	sen/kWh	25
	Minimum monthly charge	RM/kWh	12.00
3.	Tariff C3 (Generally available on application to consumer taking commercial supply whose estimated monthly consumption exceeds 100,000 kWh)		
	PEAK PERIOD (0700 hours-2400 hours)		
	Maximum demand price	RM/kW	20.00
	Energy Price	sen/kWh	25
	OFF-PEAK PERIOD (0000 hours-0700 hours)		
	Energy Price	sen/kWh	10
	Minimum monthly charge	RM/kWh	20.00

TARIFF RATES FOR SARAWAK ELECTRICITY SUPPLY CORPORATION (SESCO)

No	Tariff Category	Unit	Rates
	INDUSTRIAL		
4.	Tariff I1 (Applicable to consumer taking industrial supply whose estimated monthly consumption does not exceed 100,000 kWh) 0-100 units per month 101-3000 units per month Above 3000 units per month Minimum monthly charge	sen/kWh sen/kWh sen/kWh RM	40 30 21 10.00
5.	Tariff I2 (Industrial available on application to consumer taking industrial supply whose estimated monthly consumption exceeds 100,000 kWh) Maximum demand price Energy Price Minimum monthly charge	RM/kW sen/kWh RM/kW	12.00 17 12.00
6.	Tariff I3 (Generally available on application to consumer taking industrial supply whose estimated monthly consumption exceeds 100,000 kWh) PEAK PERIOD (0700 hours-2400 hours) Maximum demand price Energy Price	RM/kW sen/kWh	20.00 17
	OFF PEAK PERIOD (0000 hours-0700 hours) Energy Price Minimum monthly charge	sen/kWh RM/kW	10 20.00

TARIFF RATES FOR SARAWAK ELECTRICITY SUPPLY CORPORATION (SESCO)

No	Tariff Category	Unit	Rates
7.	DOMESTIC Tariff D (Applicable to consumer taking domestic supply) 0-100 units per month 101-400 units per month Above 400 units per month Minimum monthly charge	sen/kWh sen/kWh sen/kWh RM	34 29 33 5.00
8.	PUBLIC LIGHTING Tariff PL (Applicable to consumer taking lighting supply) Energy price Minimum monthly charge	sen/kWh RM	47 10.00



■ Statistik Tenaga Nasional
Berhad (TNB)
*Statistics of Tenaga Nasional
Berhad (TNB)*

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Tenaga Nasional Berhad (TNB)

		1998	1999	2000	2001	2002
A.	Jualan Tenaga (GWj) (<i>Sales of Energy (GWh)</i>)					
(1)	Domestik (<i>Domestic</i>)	8,516	8,507	9,093	10,315	10,939
(2)	Komersial (<i>Commercial</i>)	13,151	13,821	14,747	16,196	17,032
(3)	Industri (<i>Industrial</i>)	24,447	27,051	29,818	30,754	31,371
(4)	Lampu Awam (<i>Public Lighting</i>)	358	498	527	590	629
(5)	Perlombongan (<i>Mining</i>)	68	64	69	67	64
(6)	Eksport (<i>Export</i>)	26	11	7	5	19
(7)	Lain-lain (<i>Others</i>)	-	-	-	-	-
	Jumlah (Total)	46,566	49,940	54,254	57,442	60,054

B.	Campuran Penjanaan (GWj) (<i>Generation Mix (GWh)</i>)					
(1)	Hidro (<i>Hydro</i>)	3,800	6,620	5,971	4,992	4,444
(2)	Gas (<i>Gas</i>)	16,064	20,664	23,223	22,826	* 21,636
(3)	Arangbatu (<i>Coal</i>)	3,655	4,522	4,038	6,238	8,953
(4)	Minyak (<i>Oil</i>)	9,603	3,271	1,424	1,600	3,573
(5)	Distillate (<i>Distillate</i>)	113	17	29	235	N/A
(6)	Disel (<i>Diesel</i>)	-	-	-	-	-
(7)	Lain-lain (<i>Others</i>)	-	-	-	-	-
	Jumlah (Total)	33,235	35,095	34,685	35,891	38,606

* Termasuk penjanaan menggunakan distillate
Inclusion of generation using distillate

Tenaga Nasional Berhad (TNB)

		1998	1999	2000	2001	2002
C.	Bilangan Pengguna (No. of Consumers)					
(1)	Domestik (Domestic)	3,909,911	4,092,106	4,186,799	4,354,125	4,569,628
(2)	Komersial (Commercial)	718,232	764,480	792,887	821,801	862,826
(3)	Industri (Industrial)	18,689	20,584	21,235	21,483	21,382
(4)	Lampu Awam (Public Lighting)	22,406	25,127	26,158	26,439	27,793
(5)	Perlombongan (Mining)	51	49	49	42	45
(6)	Lain-lain (Others)	-	16,547	-	-	-
Jumlah (Total)		4,669,289	4,918,893	5,027,128	5,223,890	5,481,674
D.	Kapasiti Penjanaan (MW) (Generation Capacity (MW))					
(1)	Hidro (Hydro)	1,811	1,890	1,891	1,874	1,910
(2)	Gas Turbine & Combined Cycle	3,869	4,296	3,202	4,390	3,243
(3)	Arangbatu (Coal)	600	600	600	1,600	1,447
(4)	Conventional Thermal (Oil/Gas)	1,739	553	1,426	302	1,396
(5)	Gas Turbine(Distillate)	178	187	64	64	59
(6)	Disel (Diesel)	-	-	-	-	-
(7)	Lain-lain (Others)	-	-	-	-	-
(8)	Jumlah Penjanaan (Total Generation)	8,197	7,526	7,183	8,194	8,055
(9)	Kebolehdapatan Keseluruhan (Overall Availability(%))	N/A	N/A	85.8	96.6	N/A
(10)	Kos Penjanaan(sen/kWj) (Cost Of Generation)(sen/kWh)					
	a) Penjanaan Sendiri (Generation for own used)	N/A	N/A	10.60	10.89	N/A
	b) Tenaga Dibeli (Energy Purchased)	N/A	N/A	15.55	14.84	N/A
	c) Kos Keseluruhan - (a) & (b) (Overall Cost - (a) & (b))	N/A	N/A	12.76	12.70	N/A

Tenaga Nasional Berhad (TNB)

		1998	1999	2000	2001	2002
E.	Keupayaan Sistem Penghantaran (<i>Transmission System Capacity</i>)					
(1)	Talian/Kabel Sistem Penghantaran (km) (<i>Transmission System Lines/Cables (km)</i>)					
i.	500 KV	-	-	* 715	* 890	* 890
ii.	275 KV	5,763	** 6072	5,425	5,574	5,736
iii.	132 KV	8,343	8,296	8,420	9,576	9,164
iv.	66 KV	367	367	316	346	346
(2)	Pencawang Penghantaran (<i>Transmission Substations</i>)					
i.	Bilangan (<i>Number</i>)	333	341	366	374	349
ii.	Keupayaan (MVA) (<i>Capacity (MVA)</i>)	42,280	44,722	48,973	51,033	56,673
(3)	Prestasi (<i>Performance</i>)					
a)	Sistem Minit (<i>System Minutes</i>)	48	74	19	17	20
b)	Bilangan Kejadian Pelantikan (<i>Number of Incidents of Trippings</i>)	264	238	176	117	118
c)	Tenaga Yang Tidak Dibekal (<i>Unsupplied Energy (MWh)</i>)	6,834	10,720	3,129	2,789	3,662
F.	Keupayaan Sistem Pengagihan (<i>Distribution System Capacity</i>)					
(1)	Talian/Kabel Sistem Pengagihan (km) (<i>Distribution System Lines/Cables</i>)					
i.	Talian (<i>Overhead Lines</i>)	# 10,139	# 7,256	# 6,371	174,479	359,920
ii.	Kabel (<i>Underground Cables</i>)	92,872	142,869	175,762	220,536	228,804
(2)	Pencawang Pengagihan (<i>Distribution Substations</i>)					
i.	Bilangan (<i>Number</i>)	47,521	44,563	45,948	45,987	47,483
ii.	Keupayaan (MVA) (<i>Capacity (MVA)</i>)	36,152	44,697	35,083	38,191	41,231
(3)	Prestasi (<i>Performance</i>)					
a)	Bilangan Gangguan Bekalan (<i>Number of Interruption of Supply</i>)	N/A	52,254	51,964	47,296	31,328
b)	SAIDI(<i>minutes/customer/year</i>)	600	364	330	266	128

Tenaga Nasional Berhad (TNB)

		1998	1999	2000	2001	2002
G.	Pencapaian Prestasi (Performance Highlights)					
(1)	Kehendak Maksimum (MW) (Maximum Demand (MW))	8,470	8,819	9,712	10,060	10,783
(2)	Jumlah Unit Penjanaan (GWj) (Total Units Generated (GWh))	33,235	35,095	34,685	35,891	38,606
(3)	Jumlah Unit Jualan (GWj) (Total Units Sold (GWh))	46,566	49,940	54,254	57,922	60,054
(4)	Hasil Jualan Elektrik (RM Juta) (Sales of Electricity (RM million))	11,001	11,778	12,751	13,453	14,097
(5)	Kapasiti Penjanaan Terpasang (MW)*** (Installed Generation Capacity (MW))	8,197	8,526	7,147	8,194	8,055
(6)	Jumlah Kakitangan (Total Number of Employees)	23,163	22,881	24,334	25,125	25,686
(7)	Hasil Jualan Setiap Kakitangan (RM Juta) (Revenue Per Employee (RM million))	0.47	0.51	0.52	0.54	0.55
(8)	Unit Jualan Setiap Kakitangan (GWj) (Units Sold Per Employee (GWh))	2.01	2.18	2.23	2.31	2.34
(9)	Kapasiti Penjanaan Setiap Kakitangan (MW) (Generation Capacity Per Employee (MW))	0.35	0.37	0.29	0.33	0.31
(10)	Jumlah Unit Pembelian (GWj) (Total Purchased Units (GWh))	24,133	22,264	27,740	28,817	31,391
(11)	Jumlah Unit Eksport(GWj) (Total Units Exported (GWh))	26	11	7	5	19
(12)	Jumlah Unit Import(GWj) (Total Units Imported(GWh))	-	-	13	5	9
(13)	Overall System Average Interruption Duration Index (SAIDI) (minutes/customer/year)	600	364	330	266	128

1. * Daripada ini sepanjang 693.6km dikendalikan pada voltan 275kV
(Of this 693.6km operated at 275kV)

2. ** Termasuk talian 500kV dikendalikan pada voltan 275kV
(Including 500kV lines operated at 275kV)

3. *** Kapasiti penjanaan TNB Generation Sdn. Bhd. dan TNB Hidro Sdn. Bhd.
(Generation capacity of TNB Generation Sdn. Bhd. and TNB Hidro Sdn. Bhd.)

4. # Tidak termasuk talian rendah atas

Excluding LV overhead lines

5. Tahun yang ditunjukan adalah tahun kewangan
Years indicated are financial years



■ Statistik Sabah Electricity
Sdn. Bhd. (SESB)
Statistics of Sabah Electricity
Sdn. Bhd. (SESB)

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Sabah Electricity Sdn. Bhd (SESB)

		1998	1999	2000	2001	2002
A.	Jualan Tenaga (GWj) (Sales of Energy (GWh))					
(1)	Domestik (Domestic)	626	612	643	646	691
(2)	Komersial (Commercial)	726	666	740	766	839
(3)	Industri (Industrial)	505	472	499	564	622
(4)	Lampu Awam (Public Lighting)	27	27	31	29	30
(5)	Perlombongan (Mining)	-	-	-	-	-
(6)	Eksport (Export)	-	-	-	-	-
(7)	Lain-lain (Others)	-	-	-	-	-
	Jumlah (Total)	1,884	1,778	1,913	2,005	2,182
B.	Campuran Penjanaan (GWj) (Generation Mix (GWh))					
(1)	Hidro (Hydro)	159	373	491	461	437
(2)	Gas (Gas)	557	289	159	258	388
(3)	Arangbatu (Coal)	-	-	-	-	-
(4)	Minyak (Oil)	-	-	-	-	-
(5)	Distillate (Distillate)	-	-	-	-	-
(6)	Disel (Diesel)	710	649	414	420	427
(7)	Lain-lain (Others)	-	-	-	-	-
	Jumlah (Total)	1,426	1,311	1,064	1,139	1,252

Sabah Electricity Sdn. Bhd (SESB)

		1998	1999	2000	2001	2002
C.	Bilangan Pengguna (No. of Consumers)					
(1)	Domestik (Domestic)	218,695	224,098	242,309	252,869	261,447
(2)	Komersial (Commercial)	38,914	41,556	43,198	45,142	46,797
(3)	Industri (Industrial)	3,376	3,239	2,681	2,628	2,613
(4)	Lampu Awam (Public Lighting)	1,711	1,779	2,224	2,342	2,524
(5)	Perlombongan (Mining)	-	-	-	-	-
(6)	Lain-lain (Others)	-	-	-	-	-
	Jumlah (Total)	262,696	270,672	290,412	302,981	313,381
D.	Kapasiti Penjanaan (MW) (Generation Capacity (MW))					
(1)	Hidro (Hydro)	66	66	66	66	66
(2)	Gas (Gas)	104	104	104	104	104
(3)	Arangbatu (Coal)	-	-	-	-	-
(4)	Minyak (Oil)	-	-	-	-	-
(5)	Distillate (Distillate)	-	-	-	-	-
(6)	Disel (Diesel)	293	300	300	311	302
(7)	Lain-lain[Bekalan Elektrik Luar Bandar-Disel & Hidro-Mini] (Others[Rural Electrifications - Diesel & Mini-Hydro])	31	*2	*2	*6	*6
(8)	Jumlah Penjanaan (Total Generation)	494	472	472	487	478
(9)	Kebolehdapatan Keseluruhan (Overall Availability (%))	N/A	N/A	N/A	N/A	82.32
(10)	Kos Penjanaan(sen/kWj) (Cost Of Generation) sen/kWh					
	a) Penjanaan Sendiri (Generation for own used)	N/A	N/A	16.50	13.90	18.10
	b) Tenaga Dibeli (Energy Purchased)	N/A	N/A	30.78	26.70	26.70
	c) Kos Keseluruhan- (a) & (b) (Overall Cost - (a) & (b))	N/A	N/A	24.16	21.04	21.04

* Hidro-mini (Mini-hydro)

Sabah Electricity Sdn. Bhd (SESB)

		1998	1999	2000	2001	2002
E.	Keupayaan Sistem Penghantaran (<i>Transmission System Capacity</i>)					
(1)	Talian/Kabel Sistem Penghantaran (km) (<i>Transmission System Lines/Cables (km)</i>)					
i.	500 KV	-	-	-	-	-
ii.	275 KV	-	-	-	-	-
iii.	132 KV	497	497	497	542	542
iv.	66 KV	116	123	123	123	123
(2)	Pencawang Penghantaran (<i>Transmission Substations</i>)					
i.	Bilangan (<i>Number</i>)	18	17	17	17	17
ii.	Keupayaan (MVA) (<i>Capacity (MVA)</i>)	1,200	1,005	1,005	1,005	1,005
(3)	Prestasi (<i>Performance</i>)					
a)	Sistem Minit (<i>System Minutes</i>)	460	109	209	N/A	122
b)	Bilangan Kejadian Pelantikan (<i>Number of Incidents of Trippings</i>)	30	25	46	N/A	31
c)	Tenaga Yang Tidak Dibekal (<i>Unsupplied Energy (MWh)</i>)	1,812	649	1,000	2,153	548
F.	Keupayaan Sistem Pengagihan (<i>Distribution System Capacity</i>)					
(1)	Talian/Kabel Sistem Pengagihan (km) (<i>Distribution System Lines/Cables</i>)					
i.	Talian (<i>Overhead Lines</i>)	10,721	11,041	11,593	12,056	13,020
ii.	Kabel (<i>Underground Cables</i>)	1,106	1,139	1,184	1,220	1,281
(2)	Pencawang Pengagihan (<i>Distribution Substations</i>)					
i.	Bilangan (<i>Number</i>)	3,714	3,821	4,012	4,411	4,453
ii.	Keupayaan (MVA) (<i>Capacity (MVA)</i>)	1,387	1,425	1,496	1,433	2,296
(3)	Prestasi (<i>Performance</i>)					
a)	Bilangan Gangguan Bekalan (<i>Number of Interruption of Supply</i>)	N/A	11,826	10,361	10,442	9,457
b)	SAIDI (<i>minutes/customer/year</i>)	N/A	3,008	2,048	2,279	1,779

Sabah Electricity Sdn. Bhd (SESB)

		1998	1999	2000	2001	2002
G.	Pencapaian Prestasi (Performance Highlights)					
(1)	Kehendak Maksimum (MW) (Maximum Demand (MW))	372	381	391	421	447
(2)	Jumlah Unit Penjanaan (GWh) (Total Units Generated (GWh))	1,426	1,311	1,064	1,139	1,252
(3)	Jumlah Unit Jualan (GWh) (Total Units Sold (GWh))	1,884	1,778	1,913	2,005	2,182
(4)	Hasil Jualan Elektrik (RM Juta) (Sales of Electricity (RM million))	467	431	474	496	598
(5)	Kapasiti Penjanaan Terpasang (MW) (Installed Generation Capacity (MW))	494	472	472	487	478
(6)	Jumlah Kakitangan (Total Number of Employees)	2,126	2,093	2,033	2,062	2,097
(7)	Hasil Jualan Setiap Kakitangan (RM Juta) (Revenue Per Employee (RM million))	0.22	0.21	0.23	0.24	0.29
(8)	Unit Jualan Setiap Kakitangan (GWh) (Units Sold Per Employee (GWh))	0.89	0.85	0.94	1.49	1.04
(9)	Kapasiti Penjanaan Setiap Kakitangan (MW) (Generation Capacity Per Employee (MW))	0.23	0.23	0.23	0.24	0.23
(10)	Jumlah Unit Pembelian (GWh) (Total Purchased Units (GWh))	862	782	1,235	1,365	1,457
(11)	Jumlah Unit Eksport (GWh) (Total Units Exported (GWh))	-	-	-	-	-
(12)	Jumlah Unit Import (GWh) (Total Units Imported(GWh))	-	-	-	-	-
(13)	<i>Overall System Average Interruption Duration Index (SAIDI)</i>	N/A	3,008	2,048	2,279	1,779

- Statistik Perbadanan
Pembekalan Letrik Sarawak
(SESCO)
*Statistics of Sarawak Electricity
Supply Corporation (SESCO)*

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Perbadanan Pembekalan Letrik Sarawak / Sarawak Electricity Supply Corporation (SESCO)

		1998	1999	2000	2001	2002
A.	Jualan Tenaga (GWj) (Sales of Energy (GWh))					
(1)	Domestik (Domestic)	605	617	669	742	805
(2)	Komersial (Commercial)	842	844	918	972	1,025
(3)	Industri (Industrial)	914	1,049	1,257	1,321	1,381
(4)	Lampu Awam (Public Lighting)	25	28	30	32	37
(5)	Perlombongan (Mining)	-	-	-	-	-
(6)	Eksport (Export)	-	-	-	-	-
(7)	Lain-lain (Others)	-	-	-	-	-
	Jumlah (Total)	2,386	2,537	2,874	3,067	3,248
B.	Campuran Penjanaan (GWj) (Generation Mix (GWh))					
(1)	Hidro (Hydro)	454	502	479	503	388
(2)	Gas (Gas)	1,408	1,481	1,249	1,175	1,460
(3)	Arangbatu (Coal)	-	-	-	-	-
(4)	Minyak (Oil)	291	207	266	249	124
(5)	Distillate (Distillate)	-	-	-	-	-
(6)	Disel (Diesel)	148	81	109	176	319
(7)	Lain-lain (Others)	-	-	-	-	-
	Jumlah (Total)	2,301	2,270	2,103	2,103	2,291

N.B. Tahun yang ditunjukkan adalah tahun kewangan
 Years indicated are financial years

Perbadanan Pembekalan Letrik Sarawak / Sarawak Electricity Supply Corporation (SESCO)

		1998	1999	2000	2001	2002
C.	Bilangan Pengguna (No. of Consumers)					
(1)	Domestik (Domestic)	244,428	257,536	270,299	284,711	302,571
(2)	Komersial (Commercial)	45,986	47,623	49,631	51,899	53,993
(3)	Industri (Industrial)	724	743	775	814	831
(4)	Lampu Awam (Public Lighting)	2,903	3,264	3,468	3,800	4,150
(5)	Perlombongan (Mining)	-	-	-	-	-
(6)	Lain-lain (Others)	-	-	-	-	-
	Jumlah (Total)	294,041	309,166	324,173	341,224	361,545
D.	Kapasiti Penjanaan (MW) (Generation Capacity (MW))					
(1)	Hidro (Hydro)	97	97	101	101	101
(2)	Gas (Gas)	299	299	291	291	289
(3)	Arangbatu (Coal)	-	-	-	-	-
(4)	Minyak (Oil)	175	132	68	75	50
(5)	Distillate (Distillate)	-	-	-	-	-
(6)	Disel (Diesel)	35	26	91	92	117
(7)	Lain-lain (Others)	-	-	-	-	-
(8)	Jumlah Penjanaan (Total Generation)	606	554	551	559	557
(9)	Kebolehdapatan Keseluruhan (Overall Availability (%))	N/A	N/A	N/A	N/A	N/A
(10)	Kos Penjanaan(sen/kWj) (Cost Of Generation) (sen/kWh)					
a)	Penjanaan Sendiri (Generation for own used)	N/A	N/A	7.6	7.7	8.2
b)	Tenaga Dibeli (Energy Purchased)	N/A	N/A	4.8	5.0	5.0
c)	Kos Keseluruhan - (a) & (b) (Overall Cost - (a) & (b))	N/A	N/A	12.4	12.7	13.2

Perbadanan Pembekalan Letrik Sarawak / Sarawak Electricity Supply Corporation (SESCO)

		1998	1999	2000	2001	2002
E.	Keupayaan Sistem Penghantaran (Transmission System Capacity)					
(1)	Talian/Kabel Sistem Penghantaran (km) (Transmission System Lines/Cables (km))					
i.	500 KV	-	-	-	-	-
ii.	275 KV	765	765	765	765	765
iii.	132 KV	128	128	128	135	135
iv.	66 KV	-	-			-
(2)	Pencawang Penghantaran (Transmission Substations)					
i.	Bilangan (Number)	15	15	15	17	17
ii.	Keupayaan (MVA) (Capacity (MVA))	2,756	3,240	3,240	3,251	3,251
(3)	Prestasi (Performance)					
a)	Sistem Minit (System Minutes)	N/A	N/A	N/A	26	37
b)	Bilangan Kejadian Pelantikan (Number of Incidents of Trippings)	19	17	53	30	34
c)	Tenaga Yang Tidak Dibekal (Unsupplied Energy (MWh))	N/A	N/A	N/A	225	517
F.	Keupayaan Sistem Pengagihan (Distribution System Capacity)					
(1)	Talian/Kabel Sistem Pengagihan (km) (Distribution System Lines/Cables)					
i.	Talian (Overhead Lines)	12,233	13,425	13,958	14,525	15,208
ii.	Kabel (Underground Cables)	2,727	2,920	3,111	3,353	3,553
(2)	Pencawang Pengagihan (Distribution Substations)					
i.	Bilangan (Number)	4,648	5,031	5,256	5,532	5,554
ii.	Keupayaan (MVA) (Capacity (MVA))	2,724	3,209	3,596	3,855	3,933
(3)	Prestasi (Performance)					
a)	Bilangan Gangguan Bekalan (Number of Interruption of Supply)	N/A	N/A	N/A	6,004	4,167
b)	SAIDI(minutes/customer/year)	N/A	291	859	731	611

Perbadanan Pembekalan Letrik Sarawak / Sarawak Electricity Supply Corporation (SESCO)

		1998	1999	2000	2001	2002
G.	Pencapaian Prestasi (Performance Highlights)					
(1)	Kehendak Maksimum (MW) (Maximum Demand (MW))	462	490	554	574	604
(2)	Jumlah Unit Penjanaan (GWj) (Total Units Generated (GWh))	2,781	2,270	2,103	2,103	2,291
(3)	Jumlah Unit Jualan (GWj) (Total Units Sold (GWh))	2,386	2,537	2,874	3,067	3,248
(4)	Hasil Jualan Elektrik (RM Juta) (Sales of Electricity (RM million))	645	675	759	812	864
(5)	Kapasiti Penjanaan Terpasang (MW) (Installed Generation Capacity (MW))	606	554	551	559	557
(6)	Jumlah Kakitangan (Total Number of Employees)	2,038	2,039	2,046	2,029	2,025
(7)	Hasil Jualan Setiap Kakitangan (RM Juta) (Revenue Per Employee (RM million))	0.32	0.33	0.37	0.40	0.43
(8)	Unit Jualan Setiap Kakitangan (GWj) (Units Sold Per Employee (GWh))	1.17	1.24	1.4	1.51	1.60
(9)	Kapasiti Penjanaan Setiap Kakitangan (MW) (Generation Capacity Per Employee (MW))	0.30	0.27	0.27	0.28	0.28
(10)	Jumlah Unit Pembelian (GWj) (Total Purchased Units (GWh))	-	689	1,245	1,451	1,506
(11)	Jumlah Unit Eksport(GWj) (Total Units Exported (GWh))	-	-	-	-	-
(12)	Jumlah Unit Import(GWj) (Total Units Imported(GWh))	-	-	-	-	-
(13)	Overall System Average Interruption Duration Index (SAIDI)	N/A	291	859	731	611

- Senarai Penjana Kuasa Bebas
List of Independent Power Producers
(IPPs)

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Penjana Kuasa Bebas / Independent Power Producers (IPPs)

Bil (No.)	Nama Pelesen (Licensee)	Kapasiti Berlesen (MW) (Licensed Capacity (MW))	Kapasiti Dalam Operasi (MW) (Capacity in Operation (MW))	Unit Jualan (GWj) (Units Sold (GWh))	Unit Penjanaan (GWj) (Units Generated (GWh))	Tarikh Lesen Dikeluarkan (Date of Issue of Licence)
(1)	YTL Power Generation Sdn. Bhd. (a) Paka, Terengganu (b) Pasir Gudang, Johor	808 404	808 404	9,058	9,234	7-4-1993
(2)	Genting Sanyen Power Sdn. Bhd. Kuala Langat, Selangor	762	762	4,627	4,906	1-7-1993
(3)	Segari Energy Ventures Sdn. Bhd. Lumut, Perak	1,303	1,303	9,942	10,042	15-7-1993
(4)	Powertek Bhd. Alor Gajah, Melaka	440	440	1,076	1,084	1-12-1993
(5)	Port Dickson Power Bhd. Tanjung Gemuk, Port Dickson	440	440	1,071	1,076	1-12-1993
(6)	Projass Engineering Sdn. Bhd.	17	17	31	32	1-4-1994
(7)	ARL Tenaga Sdn. Bhd. Melawa, Sabah	50	50	95	101	14-6-1994
(8)	Musteq Hydro Sdn. Bhd. Sg. Kenerong, Kelantan	20	20	114	114	18-11-1994
(9)	Serudong Power Sdn. Bhd Tawau, Sabah	36	36	241	251	31-3-1995
(10)	Stratavest Sdn. Bhd. Sandakan, Sabah	64.4	64.4	278	290	1-10-1996

Penjana Kuasa Bebas / Independent Power Producers (IPPs)

Bil (No.)	Nama Pelesen (Licensee)	Kapasiti Berlesen (MW) (Licensed Capacity (MW))	Kapasiti Dalam Operasi (MW) (Capacity in Operation (MW))	Unit Jualan (GWJ) (Units Sold (GWh))	Unit Penjanaan (GWJ) (Units Generated (GWh))	Tarikh Lesen Dikeluarkan (Date of Issue of Licence)
(11)	Powertron Resources Sdn. Bhd. Karambunai, Sabah	120	120	719	727	6-2-1997
(12)	TNB Generation Sdn. Bhd. **	6,145	6,145	33,112	34,162	1-9-1997
(13)	Sandakan Power Corporation Sdn. Bhd. Sandakan, Sabah	34	34	120	126	29-11-1997
(14)	TNB Janamanjung Sdn. Bhd. **	2,100	*	*	*	21-5-1998
(15)	Teknologi Tenaga Perlis Consortium Sdn. Bhd. Kuala Sungai Baru, Perlis	650	*	*	*	26-8-1998
(16)	Nur Generation Sdn. Bhd. Kulim High-Tech Industrial Park, Kedah	440	*	*	*	17-9-1998
(17)	Pahlawan Power Sdn. Bhd. Stesen Janakuasa Melaka, Tanjung Keling, Melaka.	334	334	2,505	2,532	26-5-1999
(18)	TNB Hidro Sdn. Bhd. **	1,910	1,910	4,398	4,444	1-9-2000
(19)	Prai Power Sdn. Bhd. Daerah Seberang Perai Tengah, Pulau Pinang	350	*	*	*	19-2-2001

Penjana Kuasa Bebas / Independent Power Producers (IPPs)

Bil (No.)	Nama Pelesen (Licensee)	Kapasiti Berlesen (MW) (Licensed Capacity (MW))	Kapasiti Dalam Operasi (MW) (Capacity in Operation (MW))	Unit Jualan (GWj) (Units Sold (GWh))	Unit Penjanaan (GWj) (Units Generated (GWh))	Tarikh Lesen Dikeluarkan (Date of Issue of Licence)
(20)	GB3 Sdn. Bhd. Lumut, Perak	640 *	429	1,042	1,068	7-08-2001
(21)	Panglima Power Sdn. Bhd. Alor Gajah, Melaka	720 *	460	1,448	1,458	7-08-2001
(22)	Sejinkat Power Corporation Sdn Bhd Kuching, Sarawak	100 ***	100	N/A	606	N/A
(23)	Sarawak Power Generation Sdn Bhd Bintulu, Sarawak	210 ***	210	N/A	900	N/A

* Dalam Pembinaan (*Under Construction*)

** Anak Syarikat TNB (*Wholly Owned Subsidiaries of TNB*)

*** Anak Syarikat SESCO (*Wholly Owned Subsidiaries of SESCO*)



■ Senarai Pengagih Elektrik
List of Electricity Distributors

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Senarai Pengagih Elektrik / List of Electricity Distributors

Bil (No.)	Nama Pelesen (Licensee)	Kapasiti Dilesen (MW) (Licensed Capacity (MW))	Tarikh Lesen Dikeluarkan (Date of Issue of Licence)
(1)	Tioman Island Resort Sdn. Bhd. Pulau Tioman, Pahang.	3.20	7-1-1983
(2)	Gopeng Berhad Kawasan Perlombongan Gopeng Bhd. Gopeng, Perak.	1.20	1-1-1984
(3)	Syarikat Elektrik Pulau Ketam Pulau Ketam, Selangor.	1.20	30-10-1985
(4)	Genting Utilities & Services Sdn. Bhd. Tingkat 24, Wisma Genting, Jalan Sultan Ismail, 50250 Kuala Lumpur.	48	17-10-2000
(5)	Sabah Forest Industries Sdn. Bhd. W.D.T. 31, Sipitang, Sabah.	57.70	12-5-1993
(6)	Bandar Utama City Corporation Sdn. Bhd. 1, Persiaran Bandar Utama, 47800 Petaling Jaya, Selangor.	100	19-1-1994
(7)	Redang Island Resort Sdn. Bhd. 15th. Floor Shahzan, Prudential Tower, Jalan Sultan Ismail, 50250 Kuala Lumpur.	3.20	10-6-1994
(8)	C3Power Sdn. Bhd. Lot U0052, Tingkat 1, Jln. Bunga Mawar, Peti Surat No. 80871, 87018 W.P. Labuan, Malaysia.	5.85	18-5-1995
(9)	MTBE Malaysia Sdn. Bhd. Lot 111, Kawasan Perindustrian Gebeng, Peti Surat 1, Balok, 26080 Kuantan, Pahang.	5.60	14-6-1995
(10)	Berjuntai Tin Dredging Berhad Tingkat 32, Menara PNB, 201A Jalan Tun Razak, 50400 Kuala Lumpur.	5.60	14-6-1995
(11)	Seseni Energy Services Sdn. Bhd. Plaza Merdeka, Jalan Stadium, Kuala Lumpur.	40	1-11-1995
(12)	Sunway Pyramid Sdn. Bhd. Plaza Merdeka, Jalan Stadium, Kuala Lumpur.	9.53	1-12-1995

Senarai Pengagih Elektrik / List of Electricity Distributors

Bil (No.)	Nama Pelesen (Licensee)	Kapasiti Dilesen (MW) (Licensed Capacity (MW))	Tarikh Lesen Dikeluarkan (Date of Issue of Licence)
(13)	EPE Distribution Sdn. Bhd. No. 8, Jalan Bangsar Utama 9, Bangsar Utama, Kuala Lumpur.	100	1-4-1996
(14)	Kuantan Port Consortium Sdn. Bhd. Tanjung Gelang, Peti Surat 161, 25720 Kuantan, Pahang.	3.50	1-10-1996
(15)	Profound Heritage Sdn. Bhd. Sutera Harbour Resort, Kota Kinabalu, Sabah.	19	1-10-1996
(16)	Wirazone Sdn. Bhd. Kawasan Kuala Lumpur Sentral Development, Brickfields, Kuala Lumpur.	60	9-10-1996
(17)	Kelang Port Authority Kelang Port Authority Premis, Jalan Pelabuhan, 42005 Port Klang, Selangor.	5.80	25-3-1997
(18)	Jaya Jusco Stores Bhd. Lot 51105, Mukim Ulu Kinta, Daerah Kinta, Perak.	2	1-8-1997
(19)	Pengkalan Bekalan Kemaman Kawasan Pengkalan Bekalan Kemaman, Kemaman Terengganu.	0.35	4-12-1997
20)	Cryovac (M) Sdn. Bhd. Lot 114 & 115, Gebeng Industrial Estate, Balok, Kuantan, Pahang. Kemaman, Terengganu.	3.50	15-2-1998
(21)	Malaysia Airports (Sepang) Sdn. Bhd. Kuala Lumpur International Airport, Sepang, Selangor.	46	14-3-1998
(22)	Petronas Gas Bhd.- CUF Gebeng Gebeng, Kuantan, Pahang.	105	18-5-1998

Senarai Pengagih Elektrik / List of Electricity Distributors

Bil (No.)	Nama Pelesen (Licensee)	Kapasiti Dilesen (MW) (Licensed Capacity (MW))	Tarikh Lesen Dikeluarkan (Date of Issue of Licence)
(23)	Petronas Gas Bhd.- CUF Kerteh Kerteh, Terengganu.	210	28-5-1998
(24)	K.K.I.P. Power Sdn. Bhd. Kota Kinabalu Industrial Park, Jalan Sepanggar, Menggatal, Kota Kinabalu, Sabah.	210	15-6-1998
(25)	Nur Distribution Sdn. Bhd. Kulim Hi-Tech Industrial Park, Kulim, Kedah.	440	17-9-1998
(26)	Jaya Jusco Stores Bhd. Taman Maluri Cheras, 56100 Cheras, Kuala Lumpur.	3.4	2-10-2000
(27) (*)	Gas District Cooling (M) Sdn. Bhd Universiti Teknologi Petronas Tronoh, Perak.	8.4	10-3-2001

* Dalam Pembinaan (*Under Construction*)



Senarai Cogeneration Utama
List of Major Cogeneration



w w w . s t . g o v . m y

Senarai Co-Generators Utama / List of Major Licensed Co-Generators

Bil (No.)	Nama Pelesen (Licensee)	Kapasiti (MW) (Capacity (MW))	Jenis Penjanaan (Type of Generation)	Bahan api (MWh) (Fuels)	Top up (MW) (Top Up (MW))	Tunggu- Sedia (MW) (Standby (MW))	Penjanaan (MWj) (Generation (MWh))
(1)	Sabah Forest Industries Sdn. Bhd. Sipitang, Sabah.	57.7	Awam (Public)	Sisa Kayu/Disel (Wood/Diesel)	-	-	323,908
(2)	Perwaja Steel Sdn. Bhd. Tanjung Berhala, Kemaman, Terengganu.	9.5	Persendirian (Private)	Haba Buangan Proses Perindustrian (Waste Heat From Industrial Process)	169	-	19,261
(3)	Lembaga Padi Dan Beras Negara Sekinchan, Selangor.	0.2	Persendirian (Private)	Bahan Buangan Pertanian (Agriculture Waste)	0.5	-	8
(4)	Lembaga Padi Dan Beras Negara Ulu Dedap, Kg. Gajah, Perak.	0.6	Persendirian (Private)	Bahan Buangan Pertanian (Agriculture Waste)	2.3	-	862
(5)	Lembaga Padi Dan Beras Negara Changkat Lada, Kg. Gajah, Perak.	0.6	Persendirian (Private)	Bahan Buangan Pertanian (Agriculture Waste)	2.3	-	1,514
(6)	Ban Heng Bee Rice Mill Sdn. Bhd. Lot 2171, Jalan Bukit Rajah, Pendeng, Kedah.	0.5	Persendirian (Private)	Bahan Buangan Pertanian (Agriculture Waste)	-	-	3,346

Senarai Co-Generators Utama / List of Major Licensed Co-Generators

Bil (No.)	Nama Pelesen (Licensee)	Kapasiti (MW) (Capacity (MW))	Jenis Penjanaan (Type of Generation)	Bahan api (MWh) (Fuels)	Top up (MW) (Top Up (MW))	Tunggu- Sedia (MW) (Standby (MW))	Penjanaan (MWj) (Generation (MWh))
(7)	Consolidated Plantations Bhd. Tennamaran, Batang Berjuntai, Selangor.	2.0	Persendirian (Private)	Bahan Buangan Pertanian (Agriculture Waste)	-	-	3,918
(8)	Consolidated Plantations Bhd. Nova Scotia Palm Oil Mill, Batu 5, Jalan Maharaja Lela, 36009 Teluk Intan, Perak.	3.4	Persendirian (Private)	Bahan Buangan Pertanian (Agriculture Waste)	-	-	2,826
(9)	Gas District Cooling (M) Sdn. Bhd. Kuala Lumpur City Centre (KLCC).	40	Awam (Public)	Gas Asli (Natural Gas)	-	-	130,773
(10)	Gas District Cooling (KLIA) Sdn. Bhd. Kuala Lumpur International Airport, Sepang, Selangor.	60	Awam (Public)	Gas Asli (Natural Gas)	-	-	222,487
(11)	See Sen Chemical Bhd. Kawasan Perindustrian Telok Kalong, Kemaman, Terengganu.	6	Awam (Public)	Haba Buangan Proses Perindustrian (Waste Heat from Industrial Process)	-	2.4	18,725
(12)	Public Holdings Sdn. Bhd. Jalan Ayer Hitam, Mukim Dengkil, Sepang, Selangor.	1.8	Persendirian (Private)	Gas Asli (Natural Gas)	1.0	-	5,136
(13)	Tractors Malaysia (1982) Sdn. Bhd. Kampung Puchong, Daerah Petaling, Selangor.	1.2	Persendirian (Private)	Gas Asli (Natural Gas)	0.9	-	2,476

Senarai Co-Generators Utama / List of Major Licensed Co-Generators

Bil (No.)	Nama Pelesen (Licensee)	Kapasiti (MW) (Capacity (MW))	Jenis Penjanaan (Type of Generation)	Bahan api (MWh) (Fuels)	Top up (MW) (Top Up (MW))	Tunggu- Sedia (MW) (Standby (MW))	Penjanaan (MWj) (Generation (MWh))
(14)	Profound Heritage Sdn. Bhd. Sutera Harbour Resort, Kota Kinabalu, Sabah.	38	Awam (Public)	Diesel/Gas Asli (Diesel/Natural Gas)	-	-	41,382
(15)	TCL Industries (M) Sdn. Bhd. Telok Kalong Industrial Area, Kemaman, Terengganu.	7	Persendirian (Private)	Haba Buangan Proses Perindustrian (Waste Heat from Industrial Process)	-	-	84,154
(16)	Malaysian Mosaics Bhd. Batu 3, Mukim Kluang, Jalan Batu Pahat, Kluang, Johor.	4.2	Persendirian (Private)	Gas Asli (Natural Gas)	1.5	4.2	76
(17)	Malaysian Newsprint Industries Sdn. Bhd. Lot 3771, Jalan Lencongan Mentakab-Temerloh 28400 Mentakab, Pahang.	79.2	Persendirian (Private)	Minyak (Oil)	-	-	296,097
(18)	Titan Petrochemicals (M) Sdn. Bhd. Plo 312, Jalan Tembaga 4, Pasir Gudang Industrial Estate, Pasir Gudang, Johor.	56	Persendirian (Private)	Gas Buangan Proses Perindustrian (Waste Gas from Industrial Process)	6	10	283,426
(19)	Titan Petrochemicals (M) Sdn. Bhd. PLO 8, Tanjung Langsat Industrial Park, Mukim Sg. Tiram, Johor Bharu, Johor.	42.6	Persendirian (Private)	Gas Asli (Natural Gas)	6.0	31	179,738
(20)	Shell Refining Company (FOM) Bhd. Batu 1, Jalan Pantai, Port Dickson, Negeri Sembilan.	35	Awam (Public)	Gas Buangan Proses Perindustrian (Waste Gas from Industrial Process)	-	17.5	84,154

Senarai Co-Generators Utama / List of Major Licensed Co-Generators

Bil (No.)	Nama Pelesen (Licensee)	Kapasiti (MW) (Capacity (MW))	Jenis Penjanaan (Type of Generation)	Bahan api (MWh) (Fuels)	Top up (MW) (Top Up (MW))	Tunggu- Sedia (MW) (Standby (MW))	Penjanaan (MWj) (Generation (MWh))
(21) (*)	Bandar Utama City Corp. Sdn. Bhd. No. 1, Pesiaran Bandar Utama, Petaling Jaya.	50	Awam (Public)	Gas Asli (Natural Gas)	50	-	-
(22) (*)	Wirazone Sdn. Bhd. Kuala Lumpur Sentral Development, Brickfields, Kuala Lumpur.	12	Awam (Public)	Gas Asli (Natural Gas)	55	-	-
(23) (*)	CCM Chemicals Sdn. Bhd. Pasir Gudang Works, Plot 411, Kaw. 4, Jalan Perak Satu, Pasir Gudang, Johor.	15	Persendirian (Private)	Gas Asli (Natural Gas)	2	6.5	-
(24) (*)	Amoco Chemical (Malaysia) Sdn. Bhd. Lot 116, Gebeng Industrial Estate, P.O. Box 11, Balok, 26080 Kuantan, Pahang.	21.6	Persendirian (Private)	Gas Asli (Natural Gas)	2.4	27	-
(25) (*)	Seseni Energy Services Sdn. Bhd. Plaza Merdeka, Jalan Stadium, Kuala Lumpur.	8.8	Awam (Public)	Gas Asli (Natural Gas)	35	-	-
(26)	Petronas Methanol (Labuan) Sdn. Bhd. Kompleks Petronas Methanol (Labuan), Kawasan Perindustrian Ranca-Ranca.	12.8	Awam (Public)	Gas Asli (Natural Gas)	-	-	34,813
(27)	Petronas Gas Bhd. Kertih, Terengganu.	210	Awam (Public)	Gas Asli (Natural Gas)	-	-	1,112,737

Senarai Co-Generators Utama / List of Major Licensed Co-Generators

Bil (No.)	Nama Pelesen (Licensee)	Kapasiti (MW) (Capacity (MW))	Jenis Penjanaan (Type of Generation)	Bahan api (MWh) (Fuels)	Top up (MW) (Top Up (MW))	Tunggu- Sedia (MW) (Standby (MW))	Penjanaan (MWj) (Generation (MWh))
(28)	Petronas Gas Bhd. Gebeng, Kuantan, Pahang.	105	Awam (Public)	Gas Asli (Natural Gas)	-	-	548,997
(29)	Tian Siang Oil Mill (Perak) Sdn. Bhd. Lot 2161, Batu 21, Jalan Beruas, Padang Gajah, 32700 Beruas, Perak.	1.8	Persendirian (Private)	Bahan Buangan Pertanian (Agriculture Waste)	-	-	283
(30)	Central Sugars Refinery Sdn. Bhd. Batu Tiga, 40000 Shah Alam, Selangor	9.23	Persendirian (Private)	Diesel/MFO (Diesel/MFO)	-	-	31,384
(31) (*)	Samsung SDI (M) Sdn. Bhd. Lot 635 & 660 Kaw. Perindustrian Tuanku Jaafar 70450 Sg. Gadut, Negeri Sembilan	22.8	Persendirian (Private)	Gas Asli (Natural Gas)	17.2	11.5	-
(32) (*)	BASF-Petronas Chemicals Sdn. Bhd. Lot 139, Kawasan Perindustrian Gebeng, 26080 Kuantan, Pahang.	12.5	Persendirian (Private)	Gas Asli (Natural Gas)	27.5	-	-
(33) (*)	Gas District Cooling (M) Sdn. Bhd. Universiti Teknologi Petronas, Tronoh, Perak.	8.4	Awam (Public)	Gas Asli (Natural Gas)	1.0	4.0	-
(34) (*)	Penfibre Sdn. Bhd. Lot 109-114, Kawasan Perindustrian Bebas Prai Zon 1, 13600 Prai, Pulau Pinang.	35.4	Persendirian (Private)	Gas Asli (Natural Gas)	1.4	2.5	-

Jumlah kapasiti projek utama dilesen = **971 MW**
(Total capacity of main projects licensed)

Jumlah kapasiti projek utama dalam operasi = **784 MW**
(Total capacity in operation)

Jumlah tenaga dijana = **3432.5 GWh**
(Total energy generation)

* Belum beroperasi (Not in operation yet)

■ Senarai Penghantar Elektrik
List of Electricity Transmitters



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Senarai Penghantar Elektrik / *List of Electricity Transmitters*

Bil (No.)	Nama Pelesen (Licensee)	Kapasiti (MW) (Capacity (MW))	Tarikh Lesen Dikeluarkan (Date of Issue of Licence)
(1)	Labuan Beaufort Interconnection Sdn. Bhd. Lantai 37, Bangunan Tabung Haji 201, Jalan Tun Razak, 50400 Kuala Lumpur.	60	13-3-1990



■ Statistik Penjanaan
Persendirian
Statistics of Private Generation

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Statistik Penjanaan Persendirian / Statistics of Private Generation

Bilangan Lesen Penjanaan Persendirian <i>(No. Private Generation Licences)</i>	Kapasiti Janakuasa Mengikut Jenis Loji (MW) <i>(Generation Plant Mix (MW))</i>						Penjanaan (Gw)	<i>(Generation (Gwh))</i>
	Hidro <i>(Hydro)</i>	Gas <i>(Gas)</i>	Diesel <i>(Diesel)</i>	Biomass <i>(Biomass)</i>	Lain-lain <i>(Others)</i>	Jumlah <i>(Total)</i>		
767	0	8	622	32	170	832	750	

- Statistik Dan Maklumat Lain Yang Penting Untuk Industri Bekalan Elektrik
Other Important Statistics and Information of the Electricity Supply Industry



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Statistik Gangguan Bekalan Pada Sistem Bekalan Elektrik TNB / Statistics of Supply Interruptions in TNB's Supply System

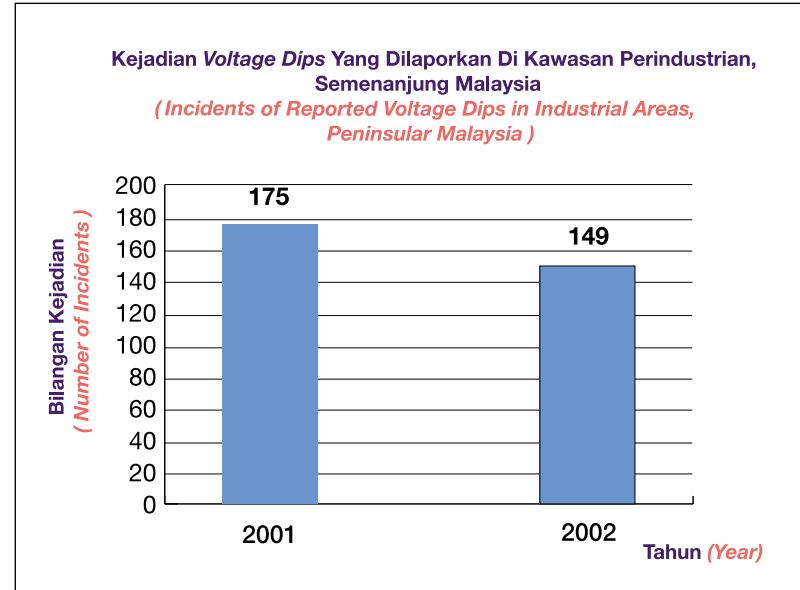
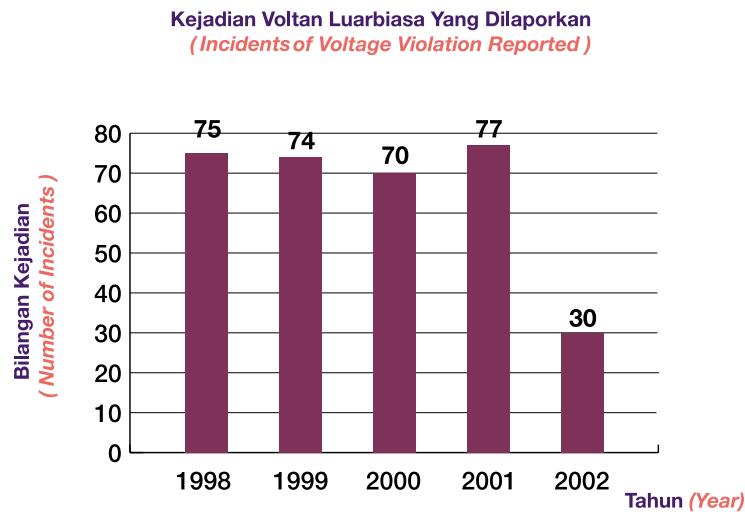
Bil (No)	Jenis Gangguan Type of Interruption	Bilangan Gangguan No. of Interruptions						Tempoh (Jam) Duration (H)						Peratus (Mengikut Bilangan) (%) Percentage (Based on Number) (%)					
		1997	1998	1999	2000	2001	2002	1997	1998	1999	2000	2001	2002	1997	1998	1999	2000	2001	2002
(1)	Gangguan Tidak Berjadual Sistem Pengagihan <i>Unscheduled Interruptions on Distribution System</i>	108,445	84,161	37,625	48,486	36,047	24,896	176,984	174,054	84,155	100,878	93,196	48,267	87.36	86.64	85.81	88.62	87.06	90.21
(2)	Gangguan Tidak Berjadual Sistem Penghantaran <i>Unscheduled Interruptions on Transmission System</i>	126	163	136	80	84	64	278	296	324	220	197	157	0.10	0.17	0.31	0.15	0.21	0.23
(3)	Gangguan Berjadual <i>Scheduled Interruptions</i>	15,560	12,817	6,085	6,149	5,272	2,637	81,275	70,047	36,256	31,230	21,820	8,793	12.54	13.19	13.88	11.23	12.73	9.56
	Jumlah Total	124,131	97,141	43,846	54,715	41,403	27,597	258,537	244,397	120,735	132,328	115,213	57,217	100	100	100	100	100	100

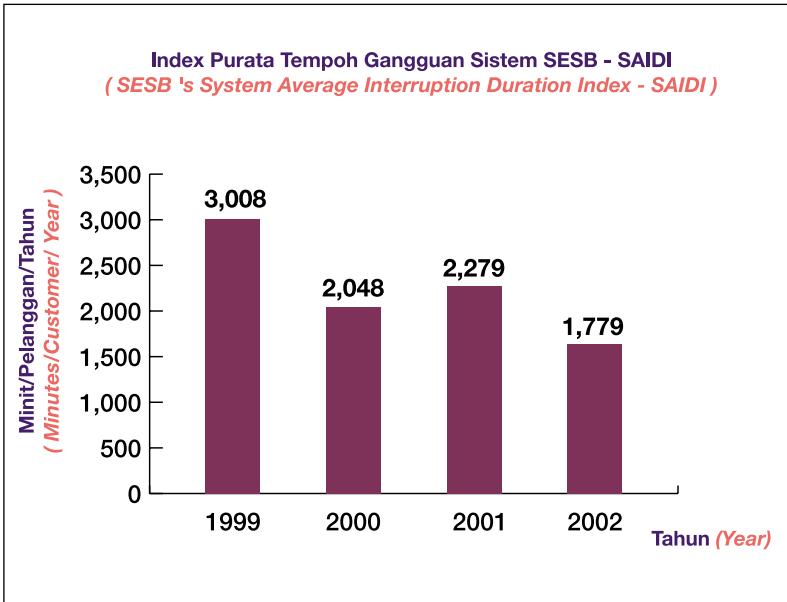
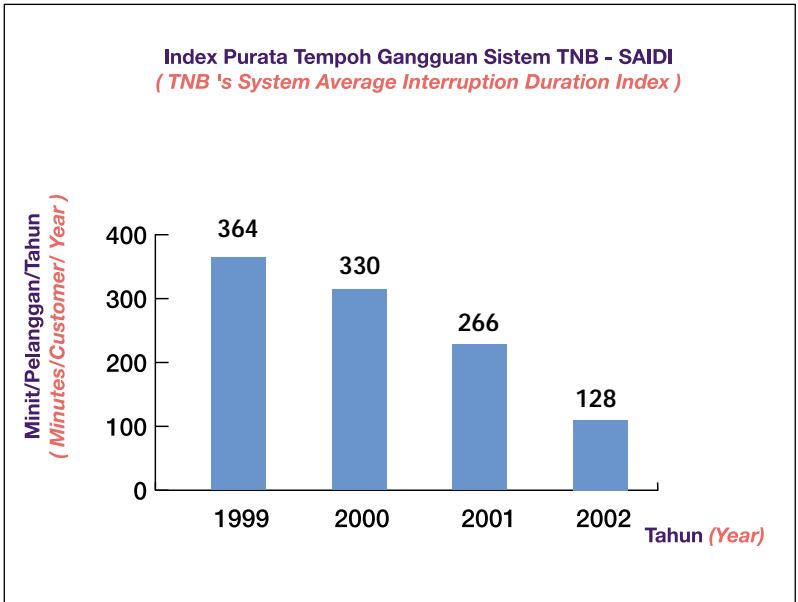
Statistik Gangguan Bekalan Pada Sistem Bekalan SESB / Statistics of Supply Interruptions in SESB's Supply System

Bil (No)	Jenis Gangguan Type of Interruption	Bilangan Gangguan No. of Interruptions				Tempoh (Jam) Duration (Hour)			
		1999	2000	2001	2002	1999	2000	2001	2002
(1)	Gangguan Tidak Berjadual <i>Unscheduled Interruptions</i>	10,540	9,167	9,214	8,423	16,274	11,216	13,183	11,568
(2)	Gangguan Berjadual <i>Scheduled Interruptions</i>	1,286	1,194	1,228	1,034	4,316	3,596	3,613	3,122
	Jumlah Total	11,826	10,361	10,442	9,457	20,590	14,812	16,796	14,690

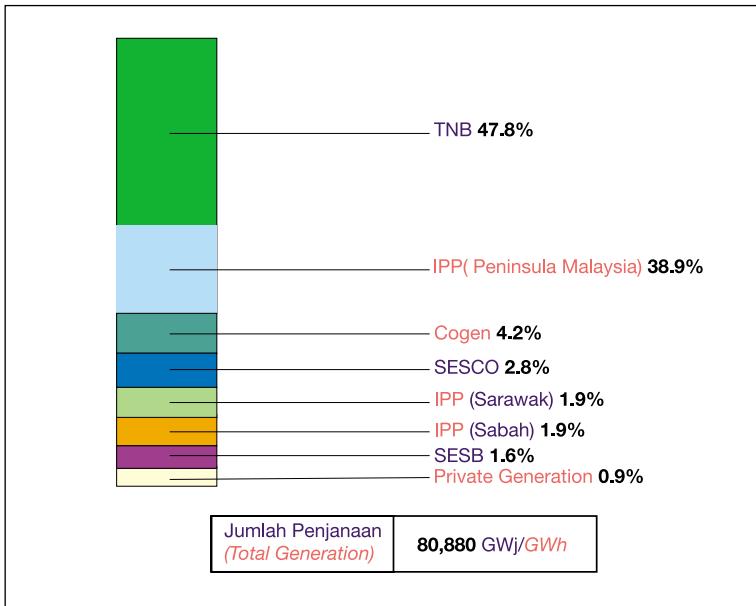
Statistik Aduan Pengguna Yang Diterima / Statistics of Consumer Complaints Received

Bil No.	Jenis Aduan (Type of Complaints)	Bilangan Aduan (No. of Complaints)					
		1997	1998	1999	2000	2001	2002
1.	Gangguan Bekalan Elektrik (<i>Supply Interruptions</i>)	67	33	32	42	10	13
2.	Bil Elektrik (<i>Electricity Bill</i>)	13	2	49	5	16	6
3.	Tarif (<i>Tariff</i>)	4	-	7	5	2	0
4.	Caj Sambungan/Caj Lain-Lain (<i>Connection Charge/Other Charges</i>)	6	6	9	6	10	7
5.	Perkhidmatan Pengguna (<i>Consumer Services</i>)	5	1	7	6	6	2
6.	Kualiti Bekalan Elektrik (<i>Quality of Electrical Supply</i>)	7	7	11	8	1	2
7.	Permohonan/Pemotongan Bekalan Elektrik (<i>Applications/Disconnections of Electricity Supply</i>)	21	15	23	12	9	6
8.	Hal-Hal Lain Berkenaan Dengan TNB (<i>Other Issues Concerning TNB</i>)	46	11	11	10	11	8
9.	Kerosakan Pepasangan TNB Disebabkan Oleh Pihak Ketiga (<i>TNB's Installations Damaged by Third Party</i>)	15	5	8	5	1	1
10.	Kontraktor (<i>Contractors</i>)	3	4	4	6	1	-
11.	Orang Kompeten (<i>Competent Persons</i>)	3	3	3	3	3	-
12.	Pengurus/Pemilik Pepasangan (<i>Manager/Owner of Installations</i>)	9	1	1	1	6	-
13.	Peralatan Elektrik (<i>Electrical Equipment</i>)	6	0	0	4	-	-
14.	Kecurian Elektrik (<i>Dishonest Use of Electricity</i>)	-	6	-	-	-	-
15.	Lain-Lain (<i>Others</i>)	22	24	9	17	11	2
	Jumlah (Total)	227	118	174	130	87	47

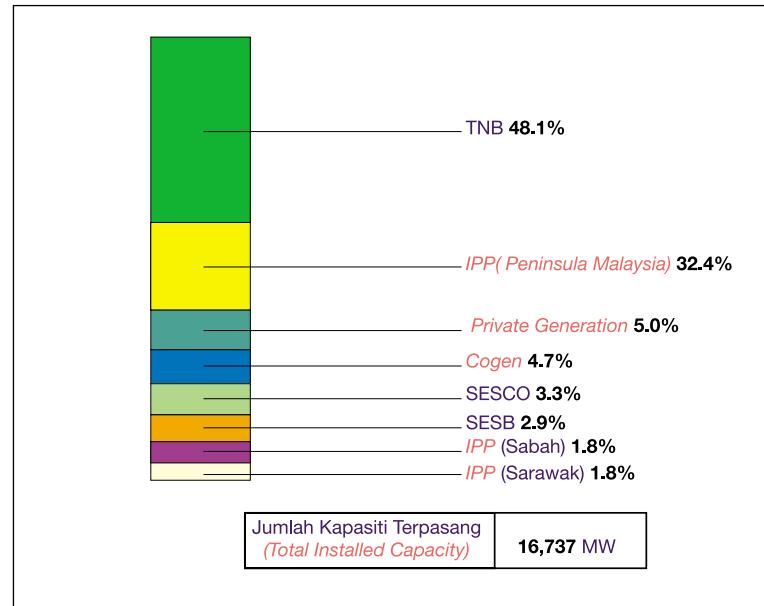




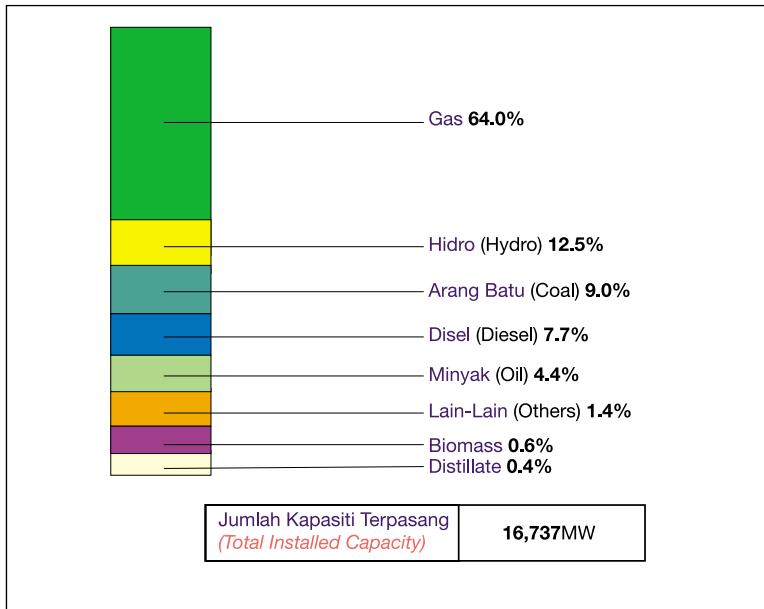
TENAGA PENJANAAN OLEH PENJANA - PENJANA BESAR DI MALAYSIA
SHARE OF ENERGY GENERATION BY MAJOR POWER PRODUCERS IN MALAYSIA



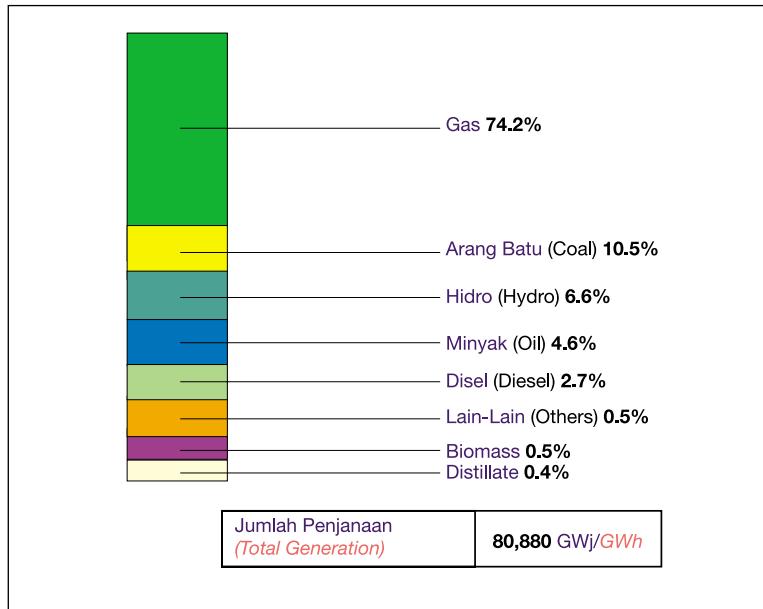
CAMPURAN KAPASITI TERPASANG OLEH PENJANA - PENJANA BESAR DI MALAYSIA
SHARE OF INSTALLED CAPACITY BY MAJOR POWER PRODUCERS IN MALAYSIA

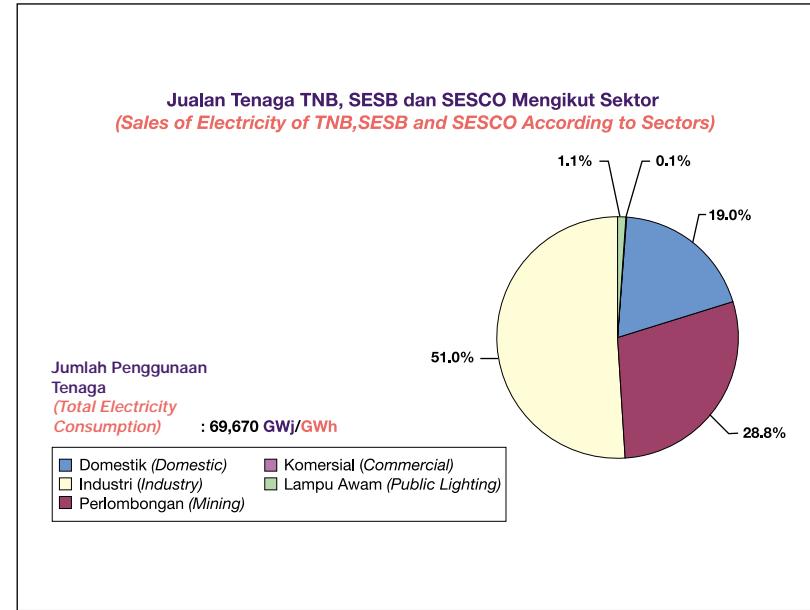
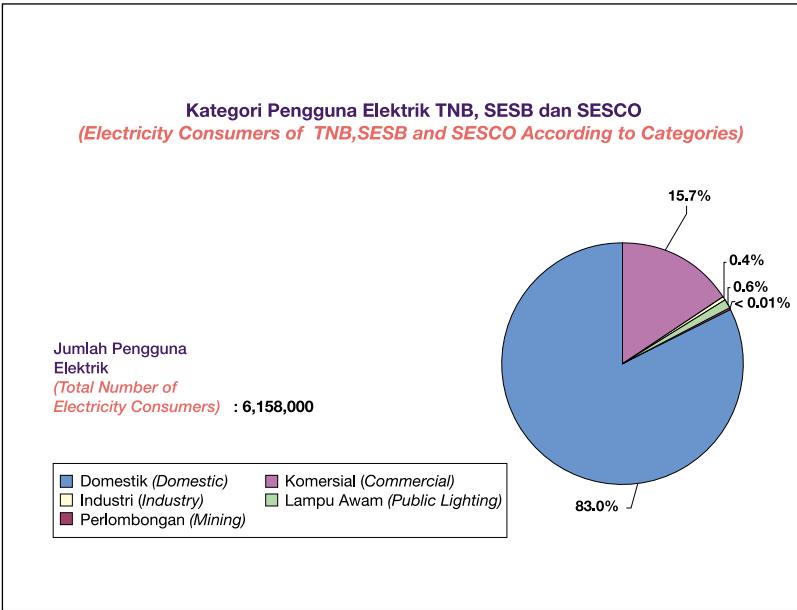


**CAMPURAN KAPASITI TERPASANG MENGIKUT JENIS LOJI
PENJANAAN DI MALAYSIA**
GENERATION PLANT MIX IN MALAYSIA



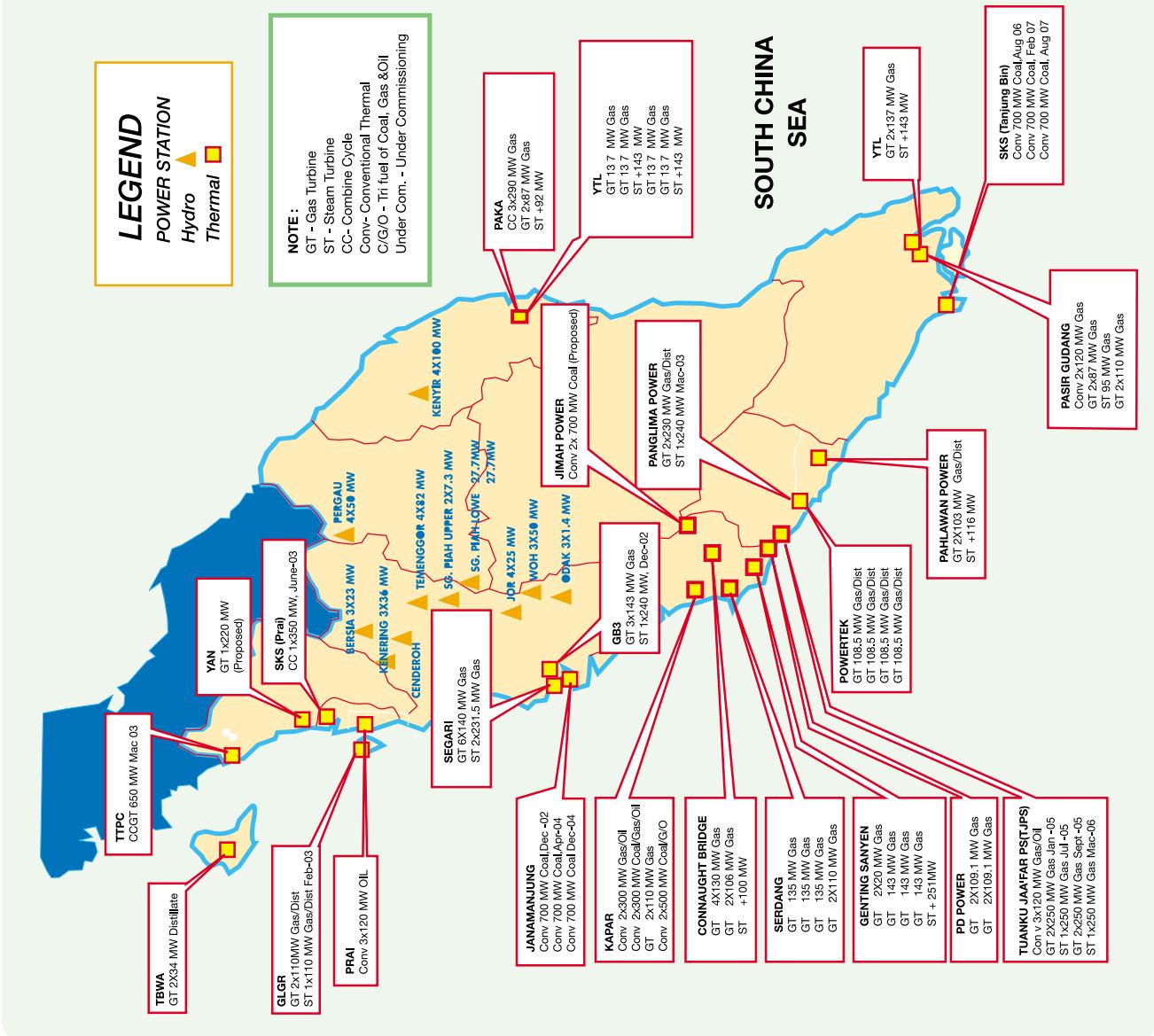
TENAGA PENJANAAN MENGIKUT SUMBER BAHANAPI DI MALAYSIA
ENERGY GENERATION ACCORDING TO FUEL MIX IN MALAYSIA



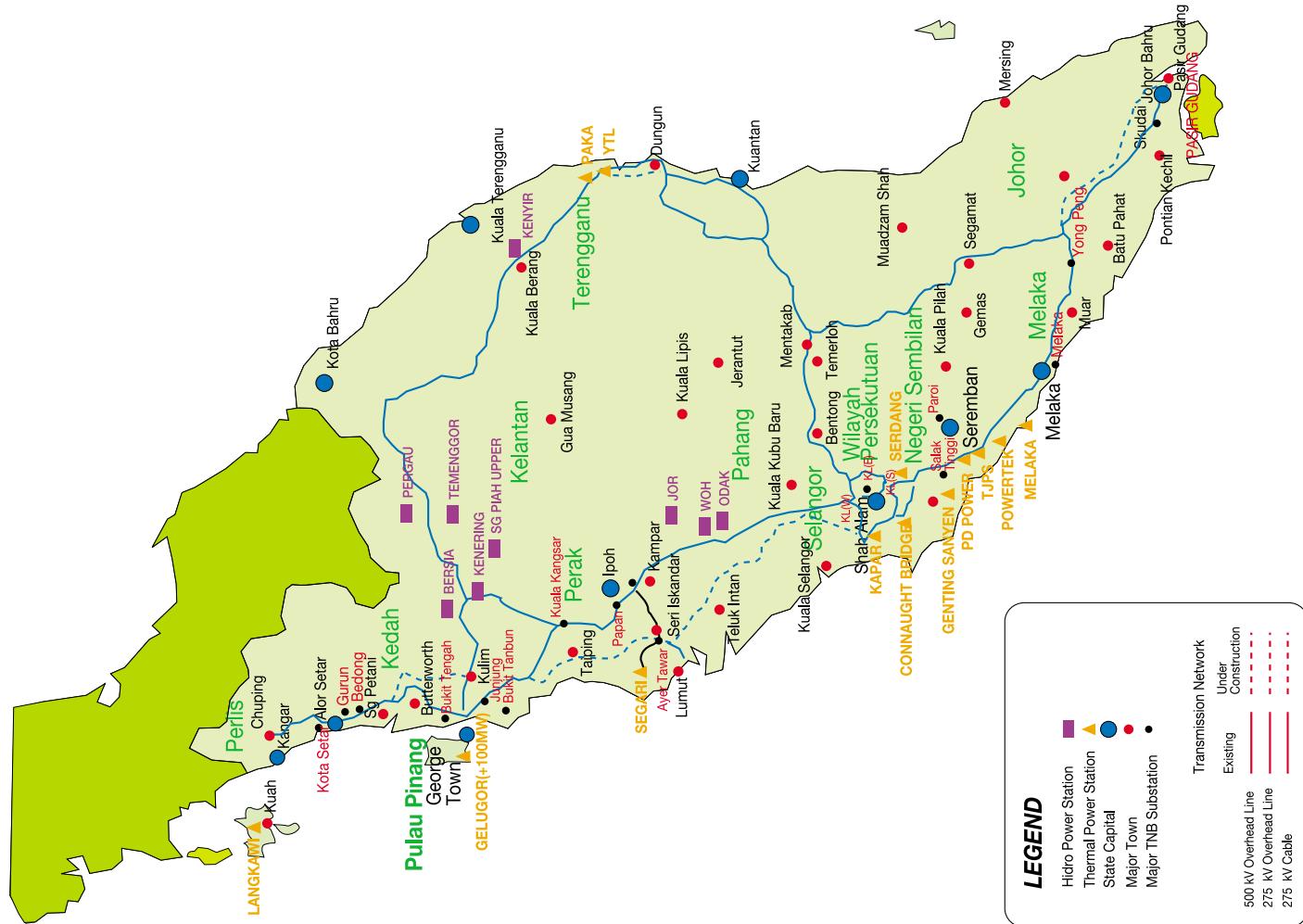


STESEN JANAKUASA UTAMA DI SEMENANJUNG MALAYSIA

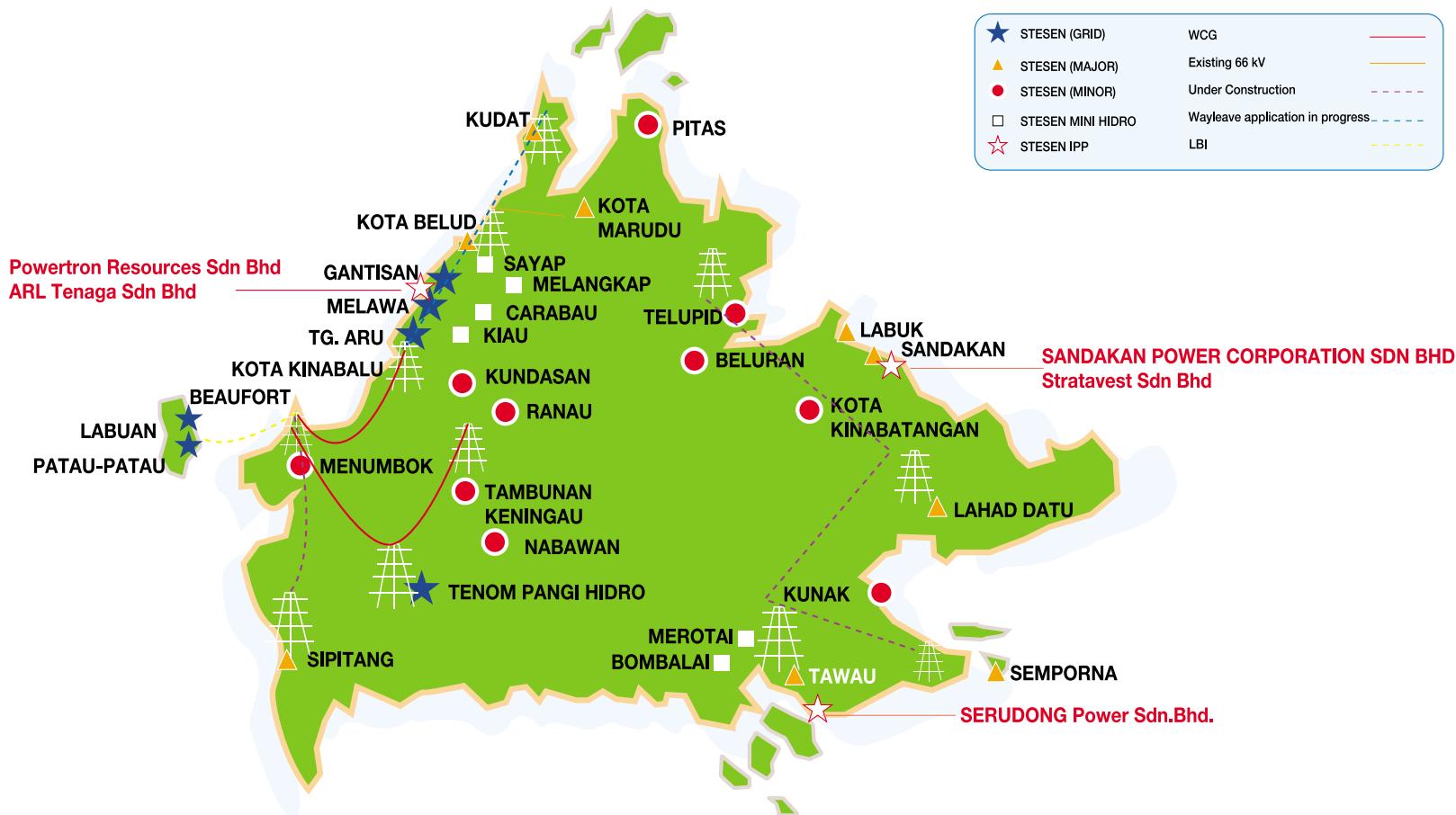
MAJOR GENERATION STATIONS IN PENINSULAR MALAYSIA



STESEN GRID DI SEMENANJUNG MALAYSIA GRID SYSTEM IN PENINSULAR MALAYSIA

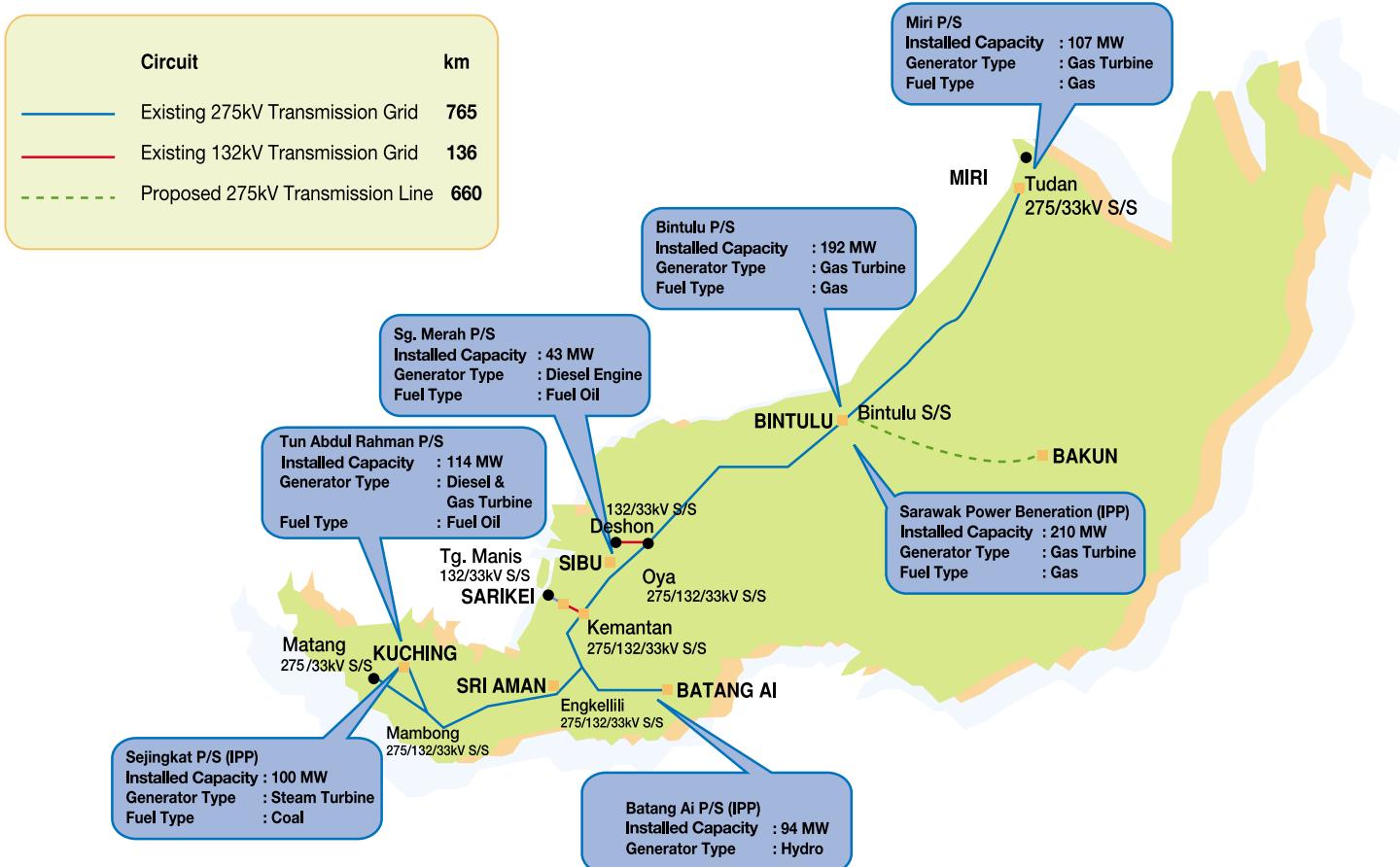


STESEN GRID DAN SISTEM JANAKUASA UTAMA DI SABAH GRID SYSTEM AND MAJOR GENERATION STATIONS IN SABAH



STESEN GRID DAN SISTEM JANAKUASA UTAMA DI SARAWAK

GRID SYSTEM AND MAJOR GENERATION STATIONS IN SARAWAK





■ Alamat Perhubungan
Key Contacts

www.st.gov.my

KEY CONTACTS

GOVERNMENT MINISTRIES AND DEPARTMENTS

MINISTRY OF ENERGY, COMMUNICATIONS AND MULTIMEDIA

1 st Floor, Wisma Damansara
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50668 Kuala Lumpur
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Block 10, Government Offices Complex
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50592 Kuala Lumpur
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Fax : 03-6201 2337

MINISTRY OF FINANCE

Ministry of Finance Complex, Precint 2
Federal Government Administrative Centre
62592 Putrajaya
Tel : 03-8882 3000
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MINISTRY OF PRIMARY INDUSTRIES

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50654 Kuala Lumpur
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Fax : 03-2274 5014

MINISTRY OF ENTREPRENEUR DEVELOPMENT

22-26th Floor, Bangunan Medan Mara
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50652 Kuala Lumpur
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Fax : 03-2691 7623

ENERGY COMMISSION

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1001 Jalan Sultan Ismail
50250 Kuala Lumpur
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Fax : 03-2691 4584

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Level 6, Plaza Sentral
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Kuala Lumpur Sentral
50470 Kuala Lumpur
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Fax : 03-2274 7970

ECONOMIC PLANNING UNIT

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STATISTICS DEPARTMENT

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Parcel C, Federal Government Administrative Centre
62514 Putrajaya
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Fax : 03-8888 9250

MALAYSIA EXTERNAL TRADE DEVELOPMENT CORPORATION

7th Floor, (West Wing)
Wisma Sime Darby
Jalan Raja Laut, 50350 Kuala Lumpur
Tel : 03-2694 7259
Fax : 03-2694 7363

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No. 129, Jalan Bangsar
Peti Surat 11003
50730 Kuala Lumpur
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Fax : 03-2282 6754

TNB GENERATION SDN. BHD

Bangunan Penjanaan, Ibu Pejabat
No. 129, Jalan Bangsar
Peti Surat 11003
50730 Kuala Lumpur
Tel : 03-2284 0680/2284 0711
Fax : 03-2282 1073

POWERTEK BERHAD

Level 43, Menara MAXIS
Kuala Lumpur City Centre
50088 Kuala Lumpur
Tel : 03-2381 6666
Fax : 03-2381 6677

GENTING SANYEN POWER SDN. BHD.

22nd Floor, Wisma Genting
Jalan Sultan Ismail
50250 Kuala Lumpur
Tel : 03-2031 1393
Fax : 03-2152 4032

ARL TENAGA SDN. BHD.

Mezzanine Floor, Wisma Ali Bawal 2
No. 11, Jalan Tandang
46050 Petaling Jaya
Selangor
Tel : 03-7784 0476
Fax : 03-7783 8485

SARAWAK ELECTRICITY SUPPLY CORPORATION

Wisma SESCO, Petra Jaya
93673 Kuching
Sarawak
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Fax : 082-444 433

SABAH ELECTRICITY SDN. BHD.

Wisma SESB
Jalan Tuanku Abdul Rahman
88673 Kota Kinabalu
Sabah
Tel : 088-282 699
Fax : 088-223 320

PORT DICKSON POWER BHD.

Suite W 1301, 13th Floor, West Tower,
Wisma Consplant 1, No.2, Jalan SS 16/4
47500 Subang Jaya, Petaling Jaya
Tel : 03-5032 3838
Fax : 03-5032 3939

YTL POWER GENERATION SDN. BHD.

8th Floor, Menara ING
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