

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,791 MW
Hydro	2,088 MW
Distillate	0 MW
Total TNB	4,879 MW
Total IPP	15,330 MW
Total Co-Gen	0 MW
Total System	20,773 MW

Generation Mix

Type	MWh	Percentage
Gas	36,964	10.87 %
Hydro	19,959	5.87 %
Total TNB	56,923	16.74 %
ST-Coal	192,920	56.75 %
Gas	89,187	26.23 %
Total IPP	282,107	82.98 %
Co-Gen	1,415	0.42 %
Total Co-Gen	1,415	0.42 %
Total Generation	340,445	100.14 %
PLTG	-240	-0.07 %
HVDC	729	0.21 %
Interconnection	489	0.14 %
Net Energy	339,956	100.00 %

Maximum Demand Record

Date: 10/23/2017	17,790 MW
Date: 4/20/2016	372,457 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	17,885 MW
TNB Generation	2,779 MW
IPP Generation	13,524 MW
Spinning Reserve	1,527 MW
Maximum Demand	16,334 MW
Net Energy	339,956 MWH
Load Factor	86.72 %

Fuel Cost

Total Cost:	56,470,766.45 RM
Cost per Unit	17.62 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	431
Hydro	348
Syncon	585
Thermal	159
Total	1,523

Time	Weather	Temperature
Afternoon	Rainy	29
Morning	Cloudy	25

Gas Usage

Station	(mmscfd)
GLGR	49
SRDG	3
TJGS	212
Total TNB	264
CBPS	52
NPRI	151
PGLA	102
PLPS	90
PTEK	17
SGB3	81
SGRI	75
YPKA	74
Total IPP	640
Total Gas	905

Total Gas Required 905

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Hourly System MW Generation

	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
System Total	13071	12502	11996	11509	11438	11170	11528	11702	12388	14194	15048	15621	15572	15462	15932	16181	16182	15952	14948	15009	15954	15756	15122	14498

Prepared By: -Select Name-

Checked By: -Select Name-

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(Gurcharan Singh)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Monday

Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
TIE-EGAT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TIE-HVDC		30	30	30	30	30	30	31	31	31	31	31	31	31	31	30	30	30	30	30	30	30	31	31	31
TIE-PLTG		-16	-19	-46	-47	-13	10	42	66	68	41	74	25	4	41	-15	-11	-26	-24	-29	-92	-7	-13	-17	-24
Interconnection		14	11	-17	-17	16	39	72	97	99	72	104	56	34	72	15	19	4	7	2	-62	23	17	13	7
System Total		13071	12727	12502	12195	11996	11674	11509	11437	11438	11260	11170	11353	11528	11908	11702	11775	12388	13552	14194	14812	15048	15511	15621	
SRev ST-Coal		384	439	437	446	425	552	598	645	620	735	753	714	722	696	701	713	566	402	356	200	109	194	189	116
SRev CCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev ST-Gas		1035	1198	1087	1246	1436	1595	1659	1664	1663	1615	1659	1577	1450	1086	1291	1228	1186	455	614	655	427	194	332	249
SRev Co-Gen		-9	-11	-11	-11	-12	-10	-8	-10	-9	-10	-10	-11	-10	-11	-10	-11	-10	-9	-8	-8	-5	-7	-4	-6
Syncon		802	802	886	821	821	821	821	821	972	972	972	972	821	972	821	821	821	651	651	651	464	464	616	616
Hydro		74	98	127	209	210	218	238	235	253	107	99	95	64	187	75	209	210	201	222	205	200	343	431	425
S.Reserve Total		2286	2526	2526	2711	2880	3176	3308	3355	3348	3419	3473	3348	3197	2780	3029	2960	2773	1870	2005	1703	1382	1375	1412	1304

Daily MWH Generation on Monday

Station	Unit	Fuel Type	Calculated MWH
JMAH	U001	ST-Coal	16,240
JMAH	U002	ST-Coal	16,217
			32,457
JMJG	U001	ST-Coal	16,007
JMJG	U002	ST-Coal	16,158
JMJG	U003	ST-Coal	15,997
JMJG	U005	ST-Coal	21,304
			69,466
PKLG	U003	ST-Coal	5,949
PKLG	U004	ST-Coal	5,951
PKLG	U006	ST-Coal	9,340
			21,240
TBIN	U001	ST-Coal	16,116
TBIN	U002	ST-Coal	16,165
TBIN	U003	ST-Coal	16,153
TBIN	U004	ST-Coal	21,323
			69,757
Subtotal			192,920
CBPS	BLK2	CCGT-Gas	7,939
			7,939
GLGR	GT01	CCGT-Gas	1,889
GLGR	GT02	CCGT-Gas	1,906
GLGR	ST1C	CCGT-Gas	1,888
			5,683
NPRI	BLK1	CCGT-Gas	11,715
NPRI	BLK2	CCGT-Gas	11,770
			23,485
PGLA	GT11	CCGT-Gas	4,352
PGLA	GT12	CCGT-Gas	4,313
PGLA	ST10	CCGT-Gas	5,125
			13,790
PLPS	GT11	CCGT-Gas	2,616
PLPS	GT12	CCGT-Gas	2,601
PLPS	GT13	CCGT-Gas	1,966
PLPS	ST18	CCGT-Gas	3,932
			11,115
SGRI	GT21	CCGT-Gas	1,827
SGRI	GT22	CCGT-Gas	1,635
SGRI	GT23	CCGT-Gas	2,675
SGRI	ST24	CCGT-Gas	3,375
			9,512
SGB3	GT31	CCGT-Gas	2,798
SGB3	GT32	CCGT-Gas	2,020
SGB3	GT33	CCGT-Gas	1,825
SGB3	ST34	CCGT-Gas	3,673
			10,316
TJGS	GT1A	CCGT-Gas	4,978
TJGS	GT1B	CCGT-Gas	4,659

Daily MWH Generation on Monday

Station	Unit	Fuel Type	Calculated MWH
TJGS	ST1C	CCGT-Gas	5,619
TJGS	GT2A	CCGT-Gas	4,933
TJGS	GT2B	CCGT-Gas	4,826
TJGS	ST2C	CCGT-Gas	6,027
			31,042
YPKA	GT11	CCGT-Gas	1,751
YPKA	GT12	CCGT-Gas	2,322
YPKA	ST10	CCGT-Gas	1,997
YPKA	GT21	CCGT-Gas	2,406
YPKA	ST20	CCGT-Gas	1,250
			9,726
			122,608
Subtotal			
PTEK	GT1A	OCGT-Gas	583
PTEK	GT1B	OCGT-Gas	610
PTEK	GT2A	OCGT-Gas	201
			1,394
SRDG	GT05	OCGT-Gas	239
			239
			1,633
Subtotal			
BSIA	HY01	Hydro	243
BSIA	HY02	Hydro	408
BSIA	HY03	Hydro	282
			933
CEND	HY01	Hydro	216
CEND	HY02	Hydro	199
CEND	HY03	Hydro	236
CEND	HY04	Hydro	192
			843
HTRG	HY01	Hydro	62
			62
KNRG	HY01	Hydro	551
KNRG	HY02	Hydro	594
KNRG	HY03	Hydro	858
			2,003
KNYR	HY01	Hydro	2,324
KNYR	HY02	Hydro	2,336
KNYR	HY03	Hydro	2,342
KNYR	HY04	Hydro	2,290
			9,292
LPIA	HY01	Hydro	415
LPIA	HY02	Hydro	360
			775
MINOR	HY01	Hydro	103
			103
PGAU	HY01	Hydro	44
PGAU	HY02	Hydro	274
PGAU	HY03	Hydro	242

Daily MWH Generation on Monday

Station	Unit	Fuel Type	Calculated MWH
SIHY	HY01	Hydro	560
SIHY	HY02	Hydro	385
SIHY			385
			770
SYPS	HY01	Hydro	178
SYPS	HY02	Hydro	186
SYPS	HY03	Hydro	174
SYPS	HY04	Hydro	192
			730
TMGR	HY01	Hydro	1,308
TMGR	HY03	Hydro	1,067
TMGR	HY04	Hydro	1,068
			3,443
UJLI	HY02	Hydro	277
			277
UPIA	HY01	Hydro	168
			168
Subtotal			19,959
PCUF	CUPG	Co-Gen	721
PCUF	CUPK	Co-Gen	694
Subtotal			1,415
TIEL	PLTG	PLTG	-240
TIEL	HVDC	HVDC	729
Subtotal			489
Calculated Net Energy			339,956