

Availability at Daily Maximum Demand Hour

ST-Coal	3,080 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	4,346 MW
Hydro	1,837 MW
Distillate	0 MW
Total TNB	9,263 MW
Total IPP	11,073 MW
Total Co-Gen	5 MW
Total System	20,623 MW

Generation Mix

Type	MWh	Percentage
ST-Coal	68,214	21.54 %
Gas	42,547	13.43 %
Hydro	7,747	2.45 %
Total TNB	118,508	37.42 %
ST-Coal	128,439	40.55 %
Gas	69,543	21.96 %
Total IPP	197,982	62.51 %
Co-Gen	1,101	0.35 %
Total Co-Gen	1,101	0.35 %
Total Generation	317,591	100.28 %
PLTG	148	0.05 %
HVDC	730	0.23 %
Interconnection	878	0.28 %
Net Energy	316,713	100.00 %

Maximum Demand Record

Date: 3/9/2016	17,175 MW
Date: 3/10/2016	359,307 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	21:30:00 Hour
Total Set On Bus	16,106 MW
TNB Generation	5,504 MW
IPP Generation	9,358 MW
Spinning Reserve	1,199 MW
Maximum Demand	14,847 MW
Net Energy	316,713 MWH
Load Factor	88.88 %

Fuel Cost

Total Cost:	40,120,319.50 RM
Cost per Unit	12.94 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	430
Hydro	147
Syncon	560
Thermal	118
Total	1,255

Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	26

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	14338	13795	13203	12782	12478	12297	12026	11651	11096	11674	12269	13013	13198	13138	13441	13759	13788	13570	13054	13063	14573	14821	14724	14581

Gas Usage

Station	(mmscfd)
GLGR	50
NPRI	83
PAKA	47
PGPS	25
SRDG	4
TJGS	102
Total TNB	312
KLPP	73
MPSS	32
PGLA	112
PLPS	87
PTEK	4
SGRI	184
SKSP	51
Total IPP	542
Total Gas	854

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Total Gas Required 854

Daily MW Generation on Sunday

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-HVDC		30	30	31	31	33	30	30	30	30	30	30	31	31	30	30	30	30	30	30	31	31	30	30	30	30	31	31	30	30	31	31	30	30	31	31	30	30	30	30											
TIE-PLTG		-20	-27	-76	5	50	-5	22	8	14	-36	-10	-20	47	41	50	43	-4	65	33	-5	53	-3	-34	14	-1	8	7	-26	25	15	-33	8	8	-40	-25	57	39	51	10	-64	-8	22	-16	29	16	-10	9	12		
Interconnection		10	3	-45	36	82	25	52	38	44	-6	20	10	78	72	80	73	25	95	63	26	83	28	-4	44	29	38	37	5	55	46	-3	38	38	-10	5	87	70	82	41	-34	22	53	14	60	46	21	39	42		
System Total		14338	13983	13795	13540	13203	13071	12782	12679	12478	12415	12297	12153	12026	12102	11651	11291	11096	11400	11674	12047	12269	12665	13013	13169	13198	13136	13138	13416	13441	13657	13759	13813	13788	13714	13570	13245	13054	12941	13063	14043	14573	14698	14821	14847	14724	14627	14581	14247		
SRev ST-Coal		124	143	110	151	172	176	194	34	136	131	142	111	126	-16	172	152	125	145	143	145	143	124	124	123	138	132	131	115	122	104	152	83	129	136	136	128	133	182	129	111	75	148	89	100	128	102	108	243		
SRev OCGT-Gas		83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 CCGT-Gas		593	475	226	367	490	270	435	366	450	571	648	829	868	944	1137	1553	1942	1541	1443	1206	937	661	573	535	509	564	708	547	478	366	367	342	485	575	759	1061	1230	1328	1288	386	244	251	200	195	233	191	165	236		
SRev ST-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	0	0	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 Co-Gen		-44	-36	-37	-34	-34	-36	-36	-34	-37	-38	-39	-33	-35	-33	-36	-39	-35	-36	-32	-35	-34	-34	-34	-33	-34	-35	-32	-32	-32	-33	-32	-35	-36	-36	-33	-35	-34	-36	-35	-36	-32	-36	-34	-34	-35	-34	-35			
Syncon		615	313	615	514	600	600	600	600	600	600	600	600	600	600	600	701	701	701	701	449	600	323	474	474	474	474	474	474	474	474	474	600	600	600	600	600	600	600	600	701	802	802	651	651	701	701	701	701	701	
Hydro		260	512	196	261	229	236	243	119	124	121	132	135	133	131	201	127	112	108	107	200	68	198	64	68	68	68	68	64	64	195	196	191	172	195	204	240	334	389	297	266	186	245	287	158	227	229	227	238		
S.Reserve Total		1631	1407	1110	1259	1457	1246	1436	1083	1276	1386	1484	1636	1694	1624	2077	2497	2841	2460	2358	1968	1713	1272	1201	1166	1156	1204	1346	1168	1106	1107	1156	1184	1351	1472	1665	1998	2264	2467	2381	1632	1273	1349	1268	1199	1332	1265	1237	1413		

Daily MWH Generation on Sunday

Station	Unit	Fuel Type	Calculated MWH
JMAH	U001	ST-Coal	16,754
JMAH	U002	ST-Coal	16,869
			33,623
JMJG	U001	ST-Coal	16,311
JMJG	U002	ST-Coal	16,272
JMJG	U003	ST-Coal	16,156
JMJG	U004	ST-Coal	19,475
			68,214
PKLG	U003	ST-Coal	6,804
PKLG	U004	ST-Coal	6,196
PKLG	U005	ST-Coal	11,168
PKLG	U006	ST-Coal	11,274
			35,442
TBIN	U001	ST-Coal	10,968
TBIN	U002	ST-Coal	16,794
TBIN	U003	ST-Coal	16,761
TBIN	U004	ST-Coal	14,851
			59,374
Subtotal			196,653
CBPS	BLK2	CCGT-Gas	-9
GLGR	GT01	CCGT-Gas	1,943
GLGR	GT02	CCGT-Gas	1,942
GLGR	ST1C	CCGT-Gas	1,918
			5,803
KLPP	GT13	CCGT-Gas	2,813
KLPP	GT14	CCGT-Gas	3,390
KLPP	ST17	CCGT-Gas	2,935
			9,138
MPSS	GT01	CCGT-Gas	99
MPSS	GT02	CCGT-Gas	2,340
MPSS	ST01	CCGT-Gas	1,120
			3,559
NPRI	BLK1	CCGT-Gas	872
NPRI	BLK2	CCGT-Gas	12,004
			12,876
PAKA	GT3A	CCGT-Gas	1,783
PAKA	GT3B	CCGT-Gas	1,791
PAKA	ST3C	CCGT-Gas	2,025
			5,599
PGLA	GT11	CCGT-Gas	5,030
PGLA	GT12	CCGT-Gas	5,030
PGLA	ST10	CCGT-Gas	5,668
			15,728
PGPS	GT3A	CCGT-Gas	94
PGPS	GT3B	CCGT-Gas	2,009
PGPS	ST3C	CCGT-Gas	963
			3,066

Daily MWH Generation on Sunday

Station	Unit	Fuel Type	Calculated MWH
PLPS	GT11	CCGT-Gas	1,114
PLPS	GT12	CCGT-Gas	3,013
PLPS	GT13	CCGT-Gas	2,878
PLPS	ST18	CCGT-Gas	3,816
			10,821
SGRI	GT11	CCGT-Gas	1,623
SGRI	GT12	CCGT-Gas	3,032
SGRI	GT13	CCGT-Gas	2,883
SGRI	ST14	CCGT-Gas	4,228
SGRI	GT21	CCGT-Gas	2,784
SGRI	GT22	CCGT-Gas	1,679
SGRI	GT23	CCGT-Gas	2,943
SGRI	ST24	CCGT-Gas	4,151
			23,323
SKSP	BLK1	CCGT-Gas	6,632
			6,632
TJGS	GT1A	CCGT-Gas	4,791
TJGS	GT1B	CCGT-Gas	4,603
TJGS	ST1C	CCGT-Gas	5,490
			14,884
Subtotal			111,420
PT EK	GT2A	OCGT-Gas	36
PT EK	GT2B	OCGT-Gas	306
			342
SRDG	GT05	OCGT-Gas	328
			328
Subtotal			670
BSIA	HY02	Hydro	300
			300
CEND	HY01	Hydro	201
CEND	HY02	Hydro	201
CEND	HY03	Hydro	192
			594
KNRG	HY02	Hydro	548
KNRG	HY03	Hydro	357
			905
KNYR	HY01	Hydro	539
KNYR	HY02	Hydro	1,017
KNYR	HY03	Hydro	705
KNYR	HY04	Hydro	869
			3,130
LPIA	HY01	Hydro	143
LPIA	HY02	Hydro	255
			398
MNOR	HY01	Hydro	84
			84
PGAU	HY02	Hydro	31

Daily MWH Generation on Sunday

Station	Unit	Fuel Type	Calculated MWH
PGAU	HY03	Hydro	30
PGAU	HY04	Hydro	303
			364
SIHY	HY01	Hydro	172
SIHY	HY02	Hydro	175
SIHY	HY03	Hydro	175
			522
SYPS	HY01	Hydro	101
SYPS	HY03	Hydro	100
SYPS	HY04	Hydro	100
			301
TMGR	HY01	Hydro	897
TMGR	HY02	Hydro	99
			996
UPIA	HY01	Hydro	120
UPIA	HY02	Hydro	33
			153
Subtotal			7,747
PCUF	CUFG	Co-Gen	665
PCUF	CUFK	Co-Gen	436
Subtotal			1,101
THEL	PLTG	PLTG	148
THEL	HVDC	HVDC	730
Subtotal			878
Calculated Net Energy			316,713