

Availability at Daily Maximum Demand Hour

ST-Coal	2,338 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,654 MW
Hydro	1,819 MW
Distillate	0 MW
Total TNB	7,811 MW
Total IPP	9,855 MW
Total Co-Gen	27 MW
Total System	18,263 MW

Maximum Demand Record

Date: 6/11/2014	16,901 MW
Date: 6/24/2014	355,911 MWH
Set On Bus, TNB, IPP And MD	
Daily Maximum Demand Hour at:	11:30:00 Hour
Total Set On Bus	16,703 MW
TNB Generation	6,558 MW
IPP Generation	8,972 MW
Spinning Reserve	1,147 MW
Maximum Demand	15,621 MW
Net Energy	322,182 MWH
Load Factor	85.94 %

Gas Usage

Station	(mmscfd)
CBPS	14
CBPS	38
GLGR	31
NPRI	27
PAKA	144
SRDG	25
TJGS	217
Total TNB	496

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Generation Mix

Type	MWh	Percentage
ST-Coal	52,520	16.30 %
Gas	63,958	19.85 %
Hydro	12,610	3.91 %
Total TNB	129,088	40.07 %
ST-Coal	118,871	36.90 %
Gas	73,447	22.80 %
Total IPP	192,318	59.69 %
Co-Gen	618	0.19 %
Total Co-Gen	618	0.19 %
Total Generation	322,024	99.95 %
PLTG	-797	-0.25 %
HVDC	639	0.20 %
Interconnection	-158	-0.05 %
Net Energy	322,182	100.00 %

Fuel Cost

Total Cost:	42,549,282.70 RM
Cost per Unit	13.75 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	447
Hydro	276
Syncon	625
Thermal	126
Total	1,474

KLPP	99
MPSS	54
PDPS	20
PGLA	5
PKLG	20
PLPS	95
PTEK	15
SGB3	80
SGRI	163
SKSP	54
Total IPP	605
Total Gas	1,101
Total Gas Required	1,101

Time Weather Temperature

Afternoon	Cloudy	32
Morning	Cloudy	28

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	12095	11666	11176	10923	10796	10687	10991	11150	11722	13894	14842	15433	15457	15060	15247	15438	15414	14971	14214	14434	14566	14340	13798	13134

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	
JMAH	U001	698	699	698	698	697	698	698	698	700	698	702	698	695	698	697	697	697	697	697	697	697	697	697	697	697
JMAH	U002	706	703	703	704	704	704	702	701	703	704	702	703	708	702	705	702	702	702	702	702	702	702	702	702	702
JMJG	U001	680	676	678	677	676	683	678	678	679	678	685	682	675	680	674	677	683	675	682	683	677	682	681	680	674
JMJG	U002	692	668	672	678	687	671	690	677	677	674	662	677	687	688	693	682	689	677	678	683	676	678	676	677	680
JMJG	U004	789	790	791	790	789	791	789	790	786	789	791	787	790	789	788	791	788	788	791	858	857	858	858	858	858
PKLG	U003	148	270	284	283	285	283	285	283	279	281	281	283	283	283	281	279	281	281	281	283	281	281	279	279	279
PKLG	U004	280	277	277	277	278	276	274	277	278	279	281	281	280	281	279	281	279	281	280	280	279	277	277	281	279
PKLG	U005	428	442	442	442	442	442	445	442	442	445	442	442	445	442	445	449	445	443	445	442	442	439	445	445	444
PKLG	U006	471	462	465	472	465	467	459	465	465	470	466	464	470	464	470	467	467	467	467	467	470	470	467	473	467
TBIN	U001	686	700	697	697	698	697	696	696	700	699	696	700	697	699	694	697	691	696	697	712	697	697	695	697	694
TBIN	U002	696	699	701	697	697	698	695	699	698	695	697	700	697	699	696	703	700	695	698	699	695	697	699	701	697
TBIN	U003	689	700	700	696	699	699	690	696	700	695	698	697	700	713	701	699	699	698	698	696	699	698	695	699	699
Total ST-Coal		6963	7086	7108	7111	7116	7111	7099	7101	7107	7107	7090	7119	7135	7132	7131	7119	7121	7101	7118	7192	7199	7203	7176	7189	7171
Total ST-Oil		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
Total 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
CBPS	GT1A	0	0	0	0	0	0	0	0	0	9	9	23	32	46	71	77	95	98	99	98	98	98	98	98	98
CBPS	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	91	95	95	96	95	95	93	93	93
CBPS	ST1C	0	0	0	0	0	0	0	0	0	0	0	0	13	29	35	82	100	101	102	102	101	102	99	101	102
GLGR	GT01	94	96	96	96	94	95	95	95	96	95	94	96	96	96	95	96	107	107	107	106	106	106	105	105	105
GLGR	ST1C	41	42	42	42	41	41	41	41	41	41	41	41	41	41	41	46	46	46	46	46	46	46	46	46	46
KLPP	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	24	24	32	32	32	32	32	32	32
KLPP	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	15	19	19	19	19	19	19	19	19
KLPP	GT13	132	131	124	71	70	71	70	71	70	71	70	71	70	70	110	138	138	138	138	138	137	137	136	133	132
KLPP	GT14	34	34	0	0	0	0	0	0	0	0	0	0	0	18	18	118	118	151	151	151	151	151	151	151	151
KLPP	GT15	148	150	159	77	77	78	78	79	79	80	80	78	78	80	80	79	79	110	140	140	140	140	140	140	140
KLPP	ST17	192	179	135	99	99	99	95	91	95	95	99	96	95	93	87	95	95	115	220	220	220	220	220	220	220
MPSS	GT01	108	103	0	0	0	0	0	0	0	0	0	0	23	46	82	107	106	106	106	106	106	104	104	104	104
MPSS	ST02	109	109	109	109	109	109	109	109	108	108	108	108	108	108	108	90	108	107	107	107	107	107	107	107	107
MPSS	ST01	112	112	50	51	51	51	51	51	51	51	51	51	51	50	48	53	39	111	112	112	112	112	112	112	112
NPRI	BLK1	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
NPRI	BLK2	55	55	56	56	55	55	55	55	56	56	55	59	56	55	56	57	106	151	179	238	300	344	345	344	344
PAKA	GT1A	65	66	66	66	65	65	66	65	67	65	66	66	66	67	66	66	90	90	90	90	86	90	90	89	89
PAKA	GT1B	64	66	66	65	65	64	65	64	65	64	64	66	65	65	65	65	92	92	92	92	92	91	91	91	90
PAKA	ST1C	65	64	63	64	64	64	64	64	64	64	64	64	64	64	65	65	76	77	77	77	75	77	77	77	77
PAKA	GT2A	66	65	66	65	63	64	65	63	65	64	65	65	65	65	65	65	90	90	90	89	90	89	89	89	89
PAKA	GT2B	64	66	65	65	64	64	64	64	64	64	64	64	64	64	64	92	92	92	92	92	92	92	92	92	92
PAKA	ST2C	75	73	72	73	73	73	72	73	72	72	72	72	72	72	72	86	86	86	86	86	86	86	85	85	85
PAKA	GT3A	65	64	65	65	64	65	65	65	65	65	65	65	65	65	65	90	90	90	90	90	90	90	90	90	90
PAKA	GT3B	64	63	66	65	64	64	64	64	66	64	64	65	65	65	65	65	87	88	88	87	87	87	87	87	87
PAKA	ST3C	76	74	74	75	75	74	74	74	74	74	74	74	74	74	74	88	88	88	88	87	87	87	87	87	87
PGLA	GT12	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
PGLA	ST10	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
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	81	145	144	143	143	142	142	142	141	141
PLPS	GT12	119	76	70	69	69	70	70	70	71	62	69	70	69	70	120	142	141	140	138	138	137	137	136	136	135
PLPS	GT13	122	123	72	72	72	72	71	71	71	66	71	72	73	71	72	121	154	156	155	151	148	148	148	148	149
PLPS	ST18	133	126	94	94	94	94	92	93	93	94	90	94	93	93	96	99	137	180	214	214	213	213	212	212	212
SGB3	GT31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	140	122	141	121	115	111	110	111	110	105

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
PGAU	HY03	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY01	49	50	50	49	50	50	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	50
SIHY	HY02	50	50	50	50	50	50	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	50
SYPS	HY01	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25
SYPS	HY02	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25
SYPS	HY03	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25
SYPS	HY04	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25
TMGR	HY01	31	30	35	35	37	31	38	35	28	31	27	31	38	41	39	37	41	34	31	37	41	39	38	63
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	35	38	35	38	63	59	58
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Total Hydro		403	299	308	332	312	303	213	232	192	198	190	197	212	217	216	208	228	403	616	681	696	934	1027	1053
Total Distillate		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	6	6	5	5	5	5	5	6	5	5	5	5	5	4	5	5	4	5	5	4	5	4	4	4
PCUF	CUFK	21	22	20	20	20	24	20	21	19	19	21	21	22	22	21	21	22	21	21	21	20	21	20	21
Total Co-Gen		27	28	25	25	25	29	25	25	27	24	24	26	26	27	27	26	26	26	27	24	26	25	24	25
Total Gen		12043	11883	11588	11439	11206	11084	10934	10860	10806	10800	10762	10833	11001	11296	11183	11237	11712	12850	13895	14298	14750	15224	15431	15556
TIE-BGAT		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		-29	-29	-30	30	30	30	30	30	30	30	30	31	31	31	31	30	30	30	31	31	29	29	31	31
TIE-PLTG		-23	-68	-48	-50	0	21	-19	28	-20	44	45	-1	-20	-15	2	-38	-41	25	-29	-53	-122	-53	-33	
Interconnection		-52	-98	-78	-20	30	51	11	59	10	74	75	29	10	14	33	-8	-10	56	1	-23	-92	-23	-2	
System Total		12095	11981	11666	11459	11176	11033	10923	10801	10796	10726	10687	10804	10991	11283	11150	11245	11722	12794	13894	14321	14842	15247	15433	15621
SRev ST-Coal		238	130	108	105	100	105	117	115	109	109	126	187	171	174	175	187	185	205	188	114	107	103	130	117
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	33	37	54	115	94	118	189
SRev CCGT-Gas		767	807	927	1103	1321	1433	1477	1572	1594	1603	1616	1680	1543	1251	1362	1440	1432	890	429	414	90	328	334	269
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
SRev Co-Gen		0	-1	2	2	2	-2	2	2	0	3	3	1	1	0	0	1	2	1	1	1	0	1	1	2
Syncon		827	827	827	676	827	827	827	827	827	827	827	827	827	827	827	474	625	474	625	474	474	474	474	474
Hydro		128	132	123	250	119	128	118	250	139	133	141	134	119	114	115	123	103	281	315	425	298	311	218	192
S.Reserve Total		1960	1895	1987	2136	2369	2491	2541	2615	2669	2675	2713	2829	2661	2366	2479	2578	2549	1851	1642	1461	1157	1270	1272	1147