

**Availability At Daily Maximum Demand Hour**

ST-Coal	1,380 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	4,116 MW
Hydro	1,745 MW
Distillate	0 MW
<b>Total TNB</b>	<b>7,241 MW</b>
<b>Total IPP</b>	<b>9,804 MW</b>
<b>Total Co-Gen</b>	<b>35 MW</b>
<b>System Total</b>	<b>17,510 MW</b>

**Set On Bus, TNB, IPP And MD**

At Daily Maximum Demand Hour : 21:30

TNB Generation	4,929 MW
IPP Generation	8,275 MW
Total Set On Bus	14,027 MW
Maximum Demand	13,302 MW
Spinning Reserve	788 MW
Net Energy	279,885 MWH
Load Factor	87.7 %
Total Cost	34,859,198 RM
Cost per Unit	12.77 cents/kWH

**Maximum Demand Record**

<b>Date :</b>	13/05/2013	16,562.0 MW
<b>Date :</b>	25/06/2013	345,254.0 MWH

**Hourly System MW Generation**

	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
System Total	13044	12571	12123	11693	11420	11040	11038	10691	9850	10057	10614	11187	11255	11186	11388	11501	11595	11623	11449	11869	13204	13266	13078	12988

**Gas Usage**

Station	(mmscfd)
CBPS	45
GLGR	65
PAKA	91
PGPS	32
SRDG	9
TJGS	217
<b>TNB Total</b>	<b>460</b>
KLPP	83
MPSS	32
PDPS	7
PGLA	97
PLPS	36
PTEK	9
SGB3	46
SGRI	84
SKSP	54
YPGS	26
YPKA	54
<b>IPP Total</b>	<b>526</b>
<b>Total Gas</b>	<b>986</b>
<b>Total Gas Required :</b>	<b>986</b>
<b>Gas Calorific Value :</b>	<b>38,500</b>

**Generation Mix**

Type	MWh	Percentage
ST-Coal	36,746.00	13.13 %
Gas	60,943.00	21.77 %
Hydro	6,421.00	2.29 %
<b>Total TNB</b>	<b>104,110.0</b>	<b>37.20 %</b>
ST-Coal	106,461.0	38.04 %
Gas	67,851.0	24.24 %
<b>Total IPP</b>	<b>174,312.0</b>	<b>62.28 %</b>
Co-Gen	928.0	0.33 %
<b>Total Co-Gen</b>	<b>928.0</b>	<b>0.33 %</b>
<b>Total Generation</b>	<b>279,350.0</b>	<b>99.81 %</b>
PLTG	163.0	0.06 %
HVDC	-698.0	-0.25 %
<b>Interconnection</b>	<b>-535.0</b>	<b>-0.19 %</b>
<b>Net Energy</b>	<b>279,885.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	399
Hydro	166
Syncon	419
Thermal	60
<b>Total</b>	<b>1044</b>

	Weather	Temperature
Morning	Sunny	23
Afternoon	Hot	30

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	
PKLG	U003	282	284	280	280	281	283	279	281	281	283	283	283	282	283	281	271	283	283	283	283	283	283	283	283	284
PKLG	U004	282	282	280	280	282	283	275	279	275	279	279	277	281	281	283	284	280	282	281	277	279	279	279	283	283
PKLG	U006	467	467	467	466	470	467	467	467	467	469	466	367	350	375	441	464	470	466	467	464	467	467	467	467	466
JMIG	U001	300	300	301	301	299	300	300	299	300	300	300	303	300	300	300	301	301	300	300	300	300	300	300	300	300
JMIG	U002	696	691	691	692	689	688	689	691	688	690	688	690	688	688	692	635	597	629	630	647	669	686	690	690	689
JMIG	U003	689	689	690	688	683	687	674	676	680	684	686	688	685	682	678	655	609	626	632	654	670	692	692	688	693
TBIN	U001	687	687	685	687	687	688	689	691	691	689	686	689	689	689	685	687	618	609	628	627	649	669	689	684	689
TBIN	U002	685	684	686	686	686	686	686	687	690	686	684	685	684	681	684	625	613	634	631	654	672	687	685	688	689
TBIN	U003	674	675	673	673	676	676	676	677	678	674	676	676	674	676	629	611	629	629	652	672	676	673	678	676	674
JMAH	U001	701	701	701	701	701	704	702	706	707	700	700	703	703	698	703	637	611	630	630	655	670	703	701	701	703
JMAH	U002	703	701	701	704	704	706	706	705	709	699	705	700	705	703	655	616	613	631	655	674	698	703	707	698	705
Total ST-Coal		6166	6161	6155	6158	6158	6168	6143	6159	6166	6153	6153	6063	6037	6052	6127	5785	5605	5716	5739	5893	6027	6161	6157	6152	6106
CBPS	GT1A	99	99	99	99	99	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CBPS	GT1B	96	95	95	96	95	87	88	88	89	88	88	89	88	88	88	88	88	88	88	89	95	96	96	94	94
CBPS	ST1C	102	101	101	101	101	70	42	42	41	40	40	39	40	39	40	41	41	40	39	41	45	47	46	46	47
GLGR	GT01	108	108	107	108	108	107	107	107	107	108	108	108	108	108	109	108	107	107	106	105	105	107	108	108	106
GLGR	GT02	114	114	113	115	114	113	114	114	114	114	114	114	113	113	112	112	112	111	112	114	114	113	112	112	111
GLGR	ST1C	101	102	100	101	101	101	102	102	101	102	102	102	102	102	101	102	101	100	100	100	101	101	101	101	100
KLPP	GT13	146	146	147	147	147	146	146	147	144	146	147	147	115	74	73	74	74	72	107	114	113	118	117	117	119
KLPP	GT14	150	150	150	150	150	150	150	150	150	141	151	151	118	118	118	118	118	118	121	121	149	149	150	150	151
KLPP	GT15	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
KLPP	ST17	139	138	135	137	137	137	137	135	115	131	131	133	133	111	83	82	83	83	83	83	87	116	119	119	119
MPSS	GT01	107	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MPSS	GT02	108	102	108	108	108	108	108	109	96	90	85	87	87	86	86	88	88	87	87	89	88	110	110	110	109
MPSS	ST01	114	55	49	49	49	49	49	50	45	36	33	33	35	32	32	31	33	33	34	34	48	49	50	50	50
PAKA	GT1A	90	89	88	90	89	90	90	66	66	64	66	65	65	65	66	66	65	65	66	67	67	65	85	85	85
PAKA	GT1B	87	87	87	87	87	88	88	66	65	64	65	63	64	64	64	64	64	64	65	66	65	65	83	83	82
PAKA	ST1C	82	82	82	81	81	81	82	82	73	69	69	69	70	70	70	71	71	71	72	80	82	82	81	81	82
PAKA	GT3A	77	78	76	77	76	77	77	60	60	59	60	62	63	63	63	65	64	63	63	63	65	64	64	63	64
PAKA	GT3B	84	85	85	85	86	85	86	85	60	60	59	60	61	63	63	63	63	63	63	62	64	63	63	64	63
PAKA	ST3C	77	77	78	78	77	77	77	68	65	64	64	67	68	68	68	68	68	69	69	69	69	77	78	78	78
PAKA	GT4A	79	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PAKA	GT4B	79	80	79	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PAKA	ST4C	88	41	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGLA	GT11	211	209	229	228	210	220	212	220	237	239	235	236	240	219	213	164	222	222	242	198	210	172	226	165	203
PGLA	GT12	211	208	227	230	213	221	174	0	0	0	0	0	0	0	0	0	0	0	27	131	228	166	203	182	176
PGLA	ST10	243	245	248	248	240	244	124	108	120	118	113	117	114	118	113	93	108	111	114	112	110	95	233	196	236
PGPS	GT3A	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
PGPS	GT3B	83	83	83	83	83	85	84	85	84	82	83	83	82	83	81	83	82	82	83	83	83	83	92	93	92
PGPS	ST3C	37	38	37	37	37	37	37	37	37	37	37	36	36	36	36	36	36	36	37	37	37	36	36	36	37
SGB3	GT31	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
SGB3	GT33	140	139	139	139	139	140	140	140	140	130	139	137	120	120	119	118	126	120	119	119	133	119	124	123	135
SGB3	ST34	70	70	70	70	71	71	70	70	70	66	71	71	68	68	66	66	66	66	66	66	66	71	65	65	67
SGRI	GT11	123	124	138	137	126	141	141	142	141	141	108	139	120	116	121	107	57	58	108	109	139	106	106	107	112
SGRI	GT12	128	130	141	140	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT13	125	126	140	141	131	142	141	141	139	142	109	140	123	116	125	98	58	57	108	110	139	108	97	108	107
SGRI	ST14	211	211	216	214	215	169	151	150	152	150	132	153	139	145	133	90	91	137	136	159	147	136	140	138	142
YPGS	GT11	126	93	96	94	91	93	99	96	95	91	91	92	93	102	95	90	98	102	101	95	95	96	103	98	95
YPGS	GT12	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YPGS	ST10	67	56	59	56	56	55	58	56	56	55	55	55	56	58	55	55	58	56	56	57	57	57	57	57	57



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																											
<b>Total Co-Gen</b>	56	42	42	43	44	43	43	21	17	16	40	39	44	45	46	45	46	43	44	42	43	39	39	39	39	39	36	38	38	36	37	37	38	37	38	38	38	35	39	37	36	36	35	36	35	36	39				
<b>Total Gen</b>	13041	12762	12633	12366	12152	11899	11604	11503	11307	11383	11042	11194	11024	10933	10643	9948	9752	9820	10030	10124	10586	10886	11232	11160	11265	11217	11153	11285	11403	11408	11501	11542	11599	11569	11612	11481	11467	11534	11890	12766	13135	13261	13290	13239	13093	13242	13049	12742			
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	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	
TIE-HVDC	-30	-28	-28	-30	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-28	-28	-29	-29	-30	-30	-29	-29	-29	-30	-28	-29	-29	-30	-30	-29	-28	-28	-28	-30	-28	-30	-30	-28	-28			
TIE-PLTG	27	47	90	27	59	-42	-59	-90	-84	-2	31	-50	15	-11	-19	-46	-69	-30	3	-14	1	20	74	-140	38	-14	-4	-50	45	21	29	46	33	-12	17	164	47	65	51	8	-41	21	52	-33	43	11	91	-39			
<b>Interconnection</b>	-3	19	62	-3	29	-72	-89	-119	-113	-31	2	-79	-14	-40	-48	-75	-98	-60	-27	-43	-28	-9	45	-168	10	-43	-33	-80	15	-8	0	17	4	-42	-11	135	18	35	21	-21	-69	-7	24	-63	15	-19	61	-67			
<b>System Total</b>	13044	12743	12571	12369	12123	11971	11693	11622	11420	11334	11040	11273	11038	10973	10691	10023	9850	9880	10057	10167	10614	10895	11187	11328	11255	11260	11186	11365	11388	11416	11501	11525	11595	11611	11623	11346	11449	11499	11869	12787	13204	13268	13266	13302	13078	13261	12988	12809			
SRev ST-Coal	55	55	57	57	60	55	74	62	59	60	62	97	110	118	84	426	538	475	471	314	184	55	56	63	50	60	71	71	62	58	42	80	98	99	66	69	76	50	46	43	36	47	60	51	51	44	38	34			
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 CCGT-Gas	321	385	116	108	211	171	436	255	281	260	468	300	390	495	864	1205	1231	1274	1092	1153	1099	1024	642	719	607	632	679	618	374	434	319	249	162	178	131	347	980	961	612	280	174	90	81	65	109	43	33	64			
SRev OCGT-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	0
SRev Co-Gen	0	0	0	0	0	0	0	0	12	13	15	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	
Syncon	645	408	645	645	645	645	494	645	645	494	645	645	645	645	645	645	645	645	494	494	344	344	343	344	344	344	344	494	343	494	494	343	343	494	494	494	494	494	494	494	494	494	494	494	494	494	494	343	343	343	
Hydro	125	223	90	99	131	123	78	201	78	86	138	239	141	147	144	157	146	147	139	139	94	134	162	157	119	130	132	130	133	255	132	129	248	255	121	128	122	160	163	121	120	122	125	109	127	67	167	170			
<b>S.Reserve Total</b>	1146	1071	908	909	1047	994	1233	1012	1075	1064	1328	1130	1286	1405	1737	2433	2560	2541	2347	2251	1871	1707	1204	1283	1119	1166	1226	1163	1063	1090	987	952	851	875	812	1038	1672	1665	1315	1043	872	875	846	788	910	650	809	761			