

**Availability At Daily Maximum Demand Hour**

ST-Coal	2,070 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	4,204 MW
Hydro	1,647 MW
Distillate	0 MW
<b>Total TNB</b>	<b>7,921 MW</b>
<b>Total IPP</b>	<b>9,936 MW</b>
<b>Total Co-Gen</b>	<b>82 MW</b>
<b>System Total</b>	<b>17,939 MW</b>

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

At Daily Maximum Demand Hour : 16:00	
TNB Generation	7,133 MW
IPP Generation	8,977 MW
Total Set On Bus	17,198 MW
Maximum Demand	16,137 MW
Spinning Reserve	1,006 MW
Net Energy	337,833 MWH
Load Factor	87.2 %
Total Cost	70,468,039 RM
Cost per Unit	21.65 cents/kWH

**Maximum Demand Record**

Date :	13/05/2013	16,562.0 MW
Date :	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	13637	12920	12418	12015	11736	11613	11726	11943	12125	13867	14830	15571	15316	15161	15712	15994	16137	15776	14595	14214	15374	15338	14956	14453

**Gas Usage**

Station	(mmscfd)
CBPS	114
GLGR	22
PAKA	193
PGGS	11
PGPS	54
SRDG	55
TIGS	223
<b>TNB Total</b>	<b>673</b>
KLPP	107
MPSS	63
PDPS	57
PGLA	110
PLPS	122
PTEK	51
SGB3	47
SGRI	228
SKSP	56
YPKA	130
<b>IPP Total</b>	<b>971</b>
<b>Total Gas</b>	<b>1,644</b>

Total Gas Required : 1,766  
Gas Calorific Value : 38.500

**Alternate Fuel Usage**

Station	(mmscfd)
PKLG	122
<b>Total</b>	<b>122</b>

**Generation Mix**

Type	MWh	Percentage
ST-Coal	42,570.00	12.60 %
Gas	83,885.00	24.83 %
Hydro	11,494.00	3.40 %
<b>Total TNB</b>	<b>137,949.0</b>	<b>40.83 %</b>
ST-Coal	62,423.0	18.48 %
ST-Oil	11,956.0	3.54 %
Gas	122,645.0	36.30 %
<b>Total IPP</b>	<b>197,024.0</b>	<b>58.32 %</b>
Co-Gen	2,088.0	0.62 %
<b>Total Co-Gen</b>	<b>2,088.0</b>	<b>0.62 %</b>
<b>Total Generation</b>	<b>337,061.0</b>	<b>99.77 %</b>
PLTG	-70.0	-0.02 %
HVDC	-702.0	-0.21 %
<b>Interconnection</b>	<b>-772.0</b>	<b>-0.23 %</b>
<b>Net Energy</b>	<b>337,833.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	460
Hydro	261
Syncon	308
Thermal	85
<b>Total</b>	<b>1114</b>

**Weather Temperature**

Weather	Temperature
Morning	Sunny 25
Afternoon	Hot 38





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																										
LPA	HY01	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	16	16	16	17	17	16	16	17	18	18	18	18	18	17	17	17	17																	
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	4	4	4	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4																	
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																	
PGAU	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	117	119	112	112	113	113	133	132	132	83	82	83	82	83	0	0	0																
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																	
PGAU	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	-1	-1	-1	-1	-1	-1	-1	-1	-1																	
SIHY	HY02	50	50	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50																	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	16	0	0	0	0	25	25	25	25	16	0	0	0	0																
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	16	0	0	0	0	25	25	25	25	16	0	0	0	0																
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24	24	24	16	0	0	0	0	24	24	24	24	16	0	0	0	0																
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	16	0	0	0	0	25	25	25	25	16	0	0	0	0																
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	HY02	28	37	35	37	35	34	34	39	33	31	33	36	38	45	44	39	33	37	30	46	85	84	84	84	30	39	34	40	33	84	79	80	82	83																
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78	77	77	35	0	0	0	0	78	77	77	76	77	0	0	0	0	0																
UPLA	HY01	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6																	
Total Hydro		220	243	185	173	176	186	176	204	185	185	170	192	210	257	254	215	214	262	235	383	1038	1171	1231	1255	932	649	615	618	607	901	877	887	1052	1006	839	446	225	221	255	377	666	579	585	585	288	282	225	229		
PCUF	CUFG	51	51	51	55	52	51	53	50	52	51	55	52	50	55	54	50	54	52	52	53	53	51	54	53	54	54	55	52	53	53	52	54	52	52	51	53	52	53	53	53	52	52	53	53	49	51	54	50		
PCUF	CUFK	32	32	35	33	35	33	33	34	35	36	34	36	35	34	36	38	39	38	39	38	37	34	33	33	32	31	30	31	31	31	32	30	30	34	39	40	40	40	35	35	35	34	35	34	34	35	36	37		
Total Co-Gen		83	83	86	88	87	84	86	84	87	87	89	88	85	89	90	88	93	90	91	91	90	85	87	86	86	85	85	83	84	84	84	84	82	86	90	93	92	93	88	88	87	86	88	87	83	86	90	87		
Total Gen		13589	13300	12966	12580	12385	12209	11976	11825	11700	11673	11567	11662	11709	11832	11839	11766	12062	13157	13853	14296	14823	15168	15525	15614	15389	15125	15139	15264	15655	16003	15971	16025	16192	16090	15776	15315	14613	14172	14104	14800	15412	15295	15347	15277	14927	14686	14428	14067		
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		
TIE-HVDC		-29	-30	-30	-29	-29	-29	-29	-30	-30	-29	-29	-29	-30	-30	-30	-30	-28	-28	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30		
TIE-PLTG		-19	31	76	-4	-4	-29	-10	-79	-7	39	-16	-51	12	-79	-75	1	-33	-22	16	-60	23	-49	-18	8	103	-45	7	-49	-28	-22	6	-11	84	21	29	31	48	15	-81	-54	67	9	38	93	0	-16	4	-25		
Interconnection		-48	1	46	-33	-33	-58	-39	-108	-36	9	-46	-80	-17	-108	-104	-29	-63	-52	-14	-90	-7	-77	-46	-38	73	-74	-22	-78	-57	-81	-23	-40	55	-8	0	1	18	-14	-110	-83	38	-20	9	64	-29	-45	-25	-55		
System Total		13637	13299	12920	12613	12418	12267	12015	11933	11736	11664	11613	11742	11726	11940	11943	11795	12125	13209	13867	14386	14830	15245	15571	15652	15316	15199	15161	15342	15712	16054	15894	16065	16137	16095	15776	15314	14595	14186	14214	14883	15374	15315	15338	15213	14956	14731	14453	14122		
SRev ST-Coal		72	74	75	76	69	68	70	64	73	67	66	70	72	65	64	72	53	66	90	67	99	69	70	72	91	73	91	89	83	88	80	70	88	78	81	83	75	75	73	72	76	77	80	84	76	93	72	77		
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 ST-Oil		10	10	10	8	8	85	75	75	75	74	74	76	76	75	75	74	84	11	4	4	4	4	4	4	4	4	4	4	5	5	4	5	5	8	9	6	6	8	62	85	11	7	5	5	5	5	5	5	5	5
SRev CCGT-Gas		192	187	180	280	267	329	410	585	681	718	813	731	696	636	631	648	702	276	275	253	288	343	293	318	306	345	426	422	401	330	328	324	335	372	525	286	289	652	827	425	299	297	280	268	266	272	282	294		
SRev OCGT-Gas		110	80	32	0	0	0	0	0	0	0	0	0	0	0	0	-1	226	94	101	213	157	47	108	142	98	91	72	137	155	175	142	103	138	134	222	506	524	402	330	129	159	130	207	166	46	258	155			
SRev Co-Gen		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	
Syncon		730	730	730	730	730	730	730	730	730	730	730	730	730	579	579	730	730	730	579	625	172	172	86	86	237	323	474	474	474	474	388	388	151	151	388	388	493	493	493	237	237	237	237	237	539	579	730	730		
Hydro		120	97	105	117	114	104	114	86	105	105	120	98	80	184	187	75	126	78	256	62	295	162	304	280	452	348	231	228	239	130	260	249	321	367	198	271	116	120	87	322	283	320	314	314	158	209	115	111		
S.Reserve Total		1234	1178	1132	1211	1188	1316	1399	1540	1664	1694	1803	1705	1654	1539	1536	1599	1694	1387	1298	1112	1071	907	804	868	1232	1191	1317	1290	1339	1181	1236	1178	1006	1115	1332	1256	1487	1926	1967	1397	1031	1095	1046	1115	1210	1204	1462	1372		