

**Availability At Daily Maximum Demand Hour**

ST-Coal	1,380 MW
ST-Gas	70 MW
ST-Oil	0 MW
Gas	3,435 MW
Hydro	1,829 MW
Distillate	0 MW
<b>Total TNB</b>	<b>6,714 MW</b>
<b>Total IPP</b>	<b>10,861 MW</b>
<b>Total Co-Gen</b>	<b>39 MW</b>
<b>System Total</b>	<b>17,614 MW</b>

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

At Daily Maximum Demand Hour : 15:30	
TNB Generation	5,588 MW
IPP Generation	10,532 MW
Total Set On Bus	17,148 MW
Maximum Demand	16,144 MW
Spinning Reserve	989 MW
Net Energy	336,312 MWH
Load Factor	86.8 %

**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	13309	12791	12373	11904	11657	11522	11650	11659	12217	13837	14910	15382	15409	15127	15701	15970	15982	15556	14483	14338	15293	15285	14760	14378

**Gas Usage**

Station	(mmscfd)
CBPS	91
GLGR	12
PAKA	103
PGGS	16
PGPS	71
SRDG	77
TJGS	110
<b>TNB Total</b>	<b>480</b>
KLPP	99
MPSS	59
PDPS	54
PGLA	115
PKLG	148
PLPS	122
PTEK	65
SGB3	108
SGRI	150
SKSP	54
YPGS	67
YPKA	33
<b>IPP Total</b>	<b>1,074</b>
<b>Total Gas</b>	<b>1,554</b>

Total Gas Required : 1,554  
Gas Calorific Value : 38,500

**Generation Mix**

Type	MWh	Percentage
ST-Coal	33,071.00	9.83 %
ST-Gas	1,619.00	0.48 %
Gas	54,589.00	16.23 %
Hydro	17,510.00	5.21 %
<b>Total TNB</b>	<b>106,789.0</b>	<b>31.75 %</b>
ST-Coal	99,827.0	29.68 %
ST-Gas	11,388.0	3.39 %
Gas	118,146.0	35.13 %
<b>Total IPP</b>	<b>229,361.0</b>	<b>68.20 %</b>
Co-Gen	1,070.0	0.32 %
<b>Total Co-Gen</b>	<b>1,070.0</b>	<b>0.32 %</b>
<b>Total Generation</b>	<b>337,220.0</b>	<b>100.27 %</b>
PLTG	184.0	0.05 %
HVDC	724.0	0.22 %
<b>Interconnection</b>	<b>908.0</b>	<b>0.27 %</b>
<b>Net Energy</b>	<b>336,312.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	329
Hydro	144
Syncon	359
Thermal	108
<b>Total</b>	<b>940</b>

	Weather	Temperature
Morning	Sunny	25
Afternoon	Hot	33

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	284	282	280	283	282	282	284	280	280	282	283	284	282	282	282	281	282	284	282	282	282	282	284	282	283	290	282	282	280	282	280	282	283																			
PKLG	U004	278	287	283	283	285	283	283	279	277	281	280	282	282	280	284	282	284	284	283	284	280	280	280	282	282	282	282	280	282	284	284	284	282	284	284	286	284	280	282													
PKLG	U005	461	461	461	462	464	461	461	461	461	464	464	462	464	461	461	464	462	462	462	466	459	466	462	464	462	459	462	464	462	458	464	464	461	464	467	460	464	464														
PKLG	U006	467	464	467	464	467	464	464	464	467	467	464	467	464	466	467	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	467													
JMUG	U002	690	686	688	689	686	690	687	690	690	688	690	691	690	686	681	690	691	689	689	689	693	689	691	690	635	681	689	689	690	689	693	689	690	689	691	693	691	689	688	688	689	688	693	688	690	688						
JMUG	U003	690	688	688	691	690	694	692	689	691	689	690	689	689	691	694	689	689	687	690	688	691	691	690	693	689	692	687	691	691	689	689	692	689	690	693	686	691	691	691	689	691	690	691	692	683	687	690	691				
TBIN	U001	654	654	653	653	657	653	657	656	655	654	656	654	656	653	656	656	650	648	648	650	647	648	648	646	650	645	650	649	651	649	647	650	650	648	648	648	648	648	650	648	647	652	648	646	652							
TBIN	U002	630	630	630	447	260	351	516	621	633	632	632	631	631	630	630	632	629	632	630	632	631	631	633	630	633	632	631	633	630	629	631	629	637	635	631	632	633	629	631	630	632	633	632	631	632							
JMAH	U001	706	702	702	703	703	703	697	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	706	701	700	701						
JMAH	U002	707	700	706	706	706	704	704	704	704	704	699	701	701	701	706	697	707	705	706	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	702	697						
Total ST-Coal		5567	5554	5558	5381	5200	5285	5445	5550	5560	5561	5567	5562	5564	5554	5556	5557	5570	5549	5566	5562	5567	5558	5558	5563	5499	5539	5547	5542	5557	5555	5561	5567	5558	5562	5552	5553	5563	5566	5563	5556	5563	5552	5558	5550	5570	5548	5548	5557				
PGPS	U002	68	68	68	68	68	68	69	68	67	67	68	68	67	67	67	67	68	68	67	67	67	67	68	68	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67				
PKLG	U001	283	255	165	141	141	142	142	142	142	142	142	142	142	149	240	276	282	284	284	284	284	284	284	284	284	284	284	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283	284	284	284	284					
PKLG	U002	255	209	149	147	145	145	145	145	144	145	145	145	145	157	242	274	278	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282				
Total ST-Gas		606	532	382	356	354	355	355	356	355	353	354	355	355	355	354	354	374	550	617	627	634	634	633	633	633	633	633	634	634	633	632	633	634	632	632	632	632	632	632	632	630	630	630	631	632	635	635	634	635			
CBPS	GT1A	98	98	98	92	89	89	89	89	89	89	89	89	89	89	98	99	99	99	99	98	99	99	99	100	100	98	96	99	97	99	97	97	97	99	98	96	97	97	99	98	98	98	98	98	98	98	99	99				
CBPS	GT1B	97	97	97	93	93	94	93	92	92	93	93	93	92	92	93	98	99	98	99	99	98	98	99	98	98	97	96	97	96	96	96	96	96	96	96	96	96	96	96	96	95	95	97	97	96	97	96	99	99			
CBPS	ST1C	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98			
GLGR	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	108	107	107	108	107	107	106	106	107	107	106	106	106	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107		
KLPP	GT11	17	15	0	0	0	0	0	0	0	0	0	0	0	0	8	8	13	15	31	31	32	32	32	32	32	32	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31			
KLPP	GT12	10	10	0	0	0	0	0	0	0	0	0	0	0	0	8	8	8	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18			
KLPP	GT13	150	150	151	151	152	150	116	70	70	69	70	70	69	69	71	70	112	151	151	150	151	151	149	148	149	147	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148			
KLPP	GT14	139	138	138	139	138	137	91	68	68	68	66	67	67	67	68	68	101	138	139	139	138	138	137	138	137	136	136	137	135	137	141	141	140	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141				
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	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	180	158	130	130	130	129	110	74	74	74	74	75	75	78	74	75	106	135	127	165	165	162	162	162	161	161	162	161	161	219	234	234	234	234	232	231	231	231	231	231	231	231	231	231	231	231	231	231	231			
MPSS	GT01	106	106	107	107	107	107	80	63	64	64	64	64	64	65	64	63	87	107	106	106	105	106	105	103	103	104	102	101	101	102	103	107	103	104	103	103	103	103	104	105	105	105	105	105	105	105	105	105	106	106	106	
MPSS	GT02	107	107	107	107	107	108	81	68	69	67	65	66	67	68	67	66	89	108	107	107	105	107	106	106	105	108	105	105	103	105	105	104	107	104	104	104	104	104	105	105	105	105	105	105	105	105	105	105	106	106	106	106
MPSS	ST01	114	114	114	114	114	114	88	57	57	57	57	57	57	56	56	74	112	113	113	113	113	114	114	114	113	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	113	113	113	113	113	113	113	113	114			
PAKA	GT1B	93	92	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93				
PAKA	ST1C	39	39	39	39	39	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38			
PAKA	GT2A	91	90	90	90	90	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91			
PAKA	GT2B	89	89	89	89	89	90	90	90	90	91	91	91	91	91	91	91	89	89	89	89	89																															



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
KNYR	HY04	101	102	101	102	102	101	100	101	101	101	101	101	101	101	101	101	101	101	100	101	101	101	101	101
LPJA	HY01	23	23	23	23	23	23	23	23	24	24	24	24	24	24	24	24	23	23	23	23	23	23	23	23
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2
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
PGAU	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
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
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	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	HY02	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	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	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
TMGR	HY01	44	-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	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY03	44	32	30	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY04	64	35	32	35	33	31	28	33	30	31	30	30	33	35	31	32	27	28	40	32	35	35	75	74
UMIRA	HY01	5	5	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
<b>Total Hydro</b>		<b>819</b>	<b>874</b>	<b>866</b>	<b>840</b>	<b>837</b>	<b>832</b>	<b>825</b>	<b>853</b>	<b>853</b>	<b>856</b>	<b>885</b>	<b>888</b>	<b>856</b>	<b>883</b>	<b>872</b>	<b>876</b>	<b>618</b>	<b>617</b>	<b>587</b>	<b>589</b>	<b>705</b>	<b>830</b>	<b>831</b>	
PCUF	CUFG	29	30	29	31	32	31	31	31	29	31	32	32	32	31	31	29	28	26	27	27	28	26	25	25
PCUF	CUFK	16	16	15	16	16	16	16	16	16	16	16	16	16	16	16	16	15	15	16	15	16	15	16	15
<b>Total Co-Gen</b>		<b>45</b>	<b>46</b>	<b>44</b>	<b>47</b>	<b>48</b>	<b>47</b>	<b>47</b>	<b>47</b>	<b>45</b>	<b>47</b>	<b>47</b>	<b>48</b>	<b>48</b>	<b>49</b>	<b>47</b>	<b>47</b>	<b>45</b>	<b>44</b>	<b>42</b>	<b>43</b>	<b>43</b>	<b>40</b>	<b>40</b>	
<b>Total Gen</b>		<b>13452</b>	<b>12940</b>	<b>12826</b>	<b>12458</b>	<b>12388</b>	<b>12079</b>	<b>11959</b>	<b>11878</b>	<b>11667</b>	<b>11649</b>	<b>11579</b>	<b>11529</b>	<b>11674</b>	<b>11807</b>	<b>11665</b>	<b>11682</b>	<b>12272</b>	<b>13320</b>	<b>13832</b>	<b>14516</b>	<b>14913</b>	<b>15243</b>	<b>15446</b>	<b>15610</b>
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	29	29	31	31	31	31	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
TIE-PLTG		113	-96	6	-58	-16	-33	24	-13	-20	-21	18	14	-6	-50	-24	-3	26	49	-36	110	-27	66	33	-28
Interconnection		143	-66	35	-29	15	-2	55	18	10	9	48	44	24	-20	6	27	55	78	-5	141	3	96	64	3
<b>System Total</b>		<b>13309</b>	<b>13006</b>	<b>12791</b>	<b>12487</b>	<b>12373</b>	<b>12081</b>	<b>11904</b>	<b>11860</b>	<b>11687</b>	<b>11640</b>	<b>11522</b>	<b>11485</b>	<b>11650</b>	<b>11827</b>	<b>11659</b>	<b>11655</b>	<b>12217</b>	<b>13242</b>	<b>13837</b>	<b>14375</b>	<b>14910</b>	<b>15147</b>	<b>15382</b>	<b>15607</b>
SRev ST-Coal		118	122	121	157	157	159	163	125	115	117	112	116	115	117	124	120	114	124	113	118	118	123	120	119
SRev ST-Gas		7	66	76	74	74	74	73	72	73	77	76	76	76	77	78	77	77	82	15	7	2	2	3	3
SRev CCGT-Gas		367	298	156	298	183	572	845	1064	1278	1327	1403	1423	1310	1170	1281	1293	823	537	294	239	182	182	196	195
SRev OCGT-Gas		130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	155	60	326	80	82	210	132
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
Syncon		453	539	539	625	625	625	625	474	474	625	625	625	625	625	625	625	625	474	474	625	625	539	539	539
Hydro		148	117	125	65	68	73	80	199	203	83	93	111	82	79	111	84	95	91	200	201	80	78	47	51
<b>S.Reserve Total</b>		<b>1223</b>	<b>1142</b>	<b>1017</b>	<b>1219</b>	<b>1107</b>	<b>1503</b>	<b>1786</b>	<b>1934</b>	<b>2143</b>	<b>2229</b>	<b>2309</b>	<b>2351</b>	<b>2208</b>	<b>2068</b>	<b>2219</b>	<b>2199</b>	<b>1734</b>	<b>1414</b>	<b>1156</b>	<b>1365</b>	<b>1087</b>	<b>1092</b>	<b>1115</b>	<b>1039</b>