

**Availability At Daily Maximum Demand Hour**

ST-Coal	2,070	MW
ST-Gas	70	MW
ST-Oil	0	MW
Gas	3,812	MW
Hydro	1,517	MW
Distillate	0	MW
<b>Total TNB</b>	<b>7,469</b>	<b>MW</b>
<b>Total IPP</b>	<b>10,997</b>	<b>MW</b>
<b>Total Co-Gen</b>	<b>53</b>	<b>MW</b>
<b>System Total</b>	<b>18,519</b>	<b>MW</b>

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

At Daily Maximum Demand Hour : 16:00	
TNB Generation	5,555 MW
IPP Generation	9,801 MW
Total Set On Bus	16,372 MW
Maximum Demand	15,386 MW
Spinning Reserve	963 MW
Net Energy	321,532 MWH
Load Factor	87.1 %

**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	13072	12596	12013	11676	11558	11599	11514	11420	11785	13229	14138	14762	14665	14275	14515	15251	15386	14859	13959	13646	14043	14222	13822	13634

**Gas Usage**

Station	(mmscfd)
GLGR	57
PAKA	165
PGPS	43
SRDG	65
TJGS	106
<b>TNB Total</b>	<b>434</b>
KLPP	89
MPSS	52
PDPS	28
PGLA	102
PKLG	61
PLPS	96
PTEK	6
SGRI	221
YPGS	69
YPKA	132
<b>IPP Total</b>	<b>855</b>
<b>Total Gas</b>	<b>1,290</b>
<b>Total Gas Required :</b>	<b>1,290</b>
<b>Gas Calorific Value :</b>	<b>38.500</b>

**Generation Mix**

Type	MWh	Percentage
ST-Coal	49,616.00	15.43 %
Gas	52,561.00	16.35 %
Hydro	10,048.00	3.13 %
<b>Total TNB</b>	<b>112,225.0</b>	<b>34.90 %</b>
ST-Coal	99,832.0	31.05 %
ST-Gas	4,043.0	1.26 %
Gas	104,650.0	32.55 %
<b>Total IPP</b>	<b>208,525.0</b>	<b>64.85 %</b>
Co-Gen	1,836.0	0.57 %
<b>Total Co-Gen</b>	<b>1,836.0</b>	<b>0.57 %</b>
<b>Total Generation</b>	<b>322,586.0</b>	<b>100.33 %</b>
PLTG	332.0	0.10 %
HVDC	722.0	0.22 %
<b>Interconnection</b>	<b>1,054.0</b>	<b>0.33 %</b>
<b>Net Energy</b>	<b>321,532.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	303
Hydro	128
Syncon	425
Thermal	140
<b>Total</b>	<b>996</b>

	Weather	Temperature
Morning	Sunny	25
Afternoon	Hot	37

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	281	281	281	281	281	281	281	281	281	281	281	281	281	281	281	279	279	281	281	281	283	283	283	283	281	281	285	281	287	281	279	283	285	283	281															
PKLG	U004	281	281	281	281	281	280	279	281	281	281	281	281	279	281	281	281	281	281	272	274	274	277	275	277	279	280	275	279	281	279	283	283	283	283																
PKLG	U005	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462															
PKLG	U006	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462															
JMIG	U001	682	683	688	688	688	689	689	689	687	685	688	690	688	690	690	688	687	689	687	688	681	689	690	688	689	691	689	687	688	689	688	688	689	688	687															
JMIG	U002	689	690	688	688	687	690	683	690	690	688	688	689	690	690	688	689	690	689	687	686	681	689	690	688	689	691	689	687	688	689	688	688	689	688	687															
JMIG	U003	689	684	689	690	687	690	687	690	688	688	689	690	688	688	687	690	688	689	687	688	681	689	690	688	689	691	689	687	688	689	688	688	689	688	687															
TBIN	U001	531	415	310	214	207	156	9	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															
TBIN	U002	631	630	631	632	631	629	631	632	631	629	633	630	633	631	632	633	630	628	630	632	631	631	630	635	632	631	631	630	630	631	633	627	632	632	632															
TBIN	U003	631	630	632	631	629	631	629	629	631	631	626	633	631	632	632	635	633	629	629	630	629	628	629	628	629	628	629	629	629	629	629	629	629	629	629															
JMAH	U001	696	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	698	700	698	700	698	700	698	700	703	703	703	704	699	700	703	703	700	700															
JMAH	U002	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	698	700	698	700	698	700	698	700	703	703	703	704	699	700	703	703	700	700															
Total ST-Coal		6736	6618	6524	6427	6418	6368	6214	6211	6215	6208	6209	6218	6218	6217	6216	6219	6213	6207	6206	6213	6214	6210	6212	6213	6210	6219	6212	6211	6207	6206	6202	6211	6211	6209	6214	6221	6207	6215	6220	6219	6213	6223	6193	6144	6115	6189	6225	6225		
PKLG	U002	244	167	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	143	144	144	143	143	144	144	144	144	144	144	144	144	144	144	144	144	143	144	144	144	144	144	144	197	269	273				
Total ST-Gas		244	167	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	143	144	144	143	143	144	144	144	144	144	144	144	144	144	144	144	144	143	144	144	144	144	144	144	144	144	197	269	273		
GLGR	GT01	101	63	64	65	63	65	65	64	65	64	64	66	64	65	65	65	88	103	102	103	102	101	101	101	100	100	101	101	100	100	99	99	100	101	99	100	101	101	101	102	102	102	102	101	103	101	103			
GLGR	GT02	105	68	71	71	70	69	70	70	70	70	70	70	70	70	70	95	109	109	108	108	108	108	108	108	107	108	108	107	107	107	107	107	104	106	106	107	106	106	107	108	108	108	108	108	108	108	108	108		
GLGR	ST1C	96	72	68	69	68	68	68	68	68	68	68	68	68	68	68	79	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97			
KLPP	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	15	15	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32		
KLPP	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	15	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	143	117	116	116	116	69	70	70	70	71	70	70	71	69	69	69	112	112	145	150	150	150	152	150	150	150	150	150	149	151	151	151	151	151	150	66	68	68	66	67	67	67	67	67	67	67	67	67	67	
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	132	131	135	136	136	137	136	137	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138
KLPP	GT15	141	116	116	116	117	70	71	70	71	72	71	71	71	71	71	113	139	141	145	146	141	142	141	142	141	142	140	140	145	145	145	146	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	
KLPP	ST17	133	118	114	115	115	82	78	77	78	82	82	82	82	82	82	90	181	198	233	237	237	239	239	235	235	235	235	235	236	236	236	236	236	168	157	157	154	154	155	155	155	155	155	155	155	155	155	155	145	
MPSS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	68	87	109	107	107	107	107	106	105	105	105	104	104	104	103	105	104	104	104	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	
MPSS	GT02	109	109	109	109	108	108	109	110	108	110	110	110	110	110	110	89	109	109	109	109	109	109	108	108	108	108	107	107	106	107	106	107	107	107	107	107	107	107	107	107	107	109	109	109	108	110	108			
MPSS	ST01	51	49	49	49	49	49	50	51	52	52	51	52	50	50	49	52	63	105	115	116	116	116	116	116	116	115	115	115	114	114	114	114	114	114	114	115	115	115	115	115	116	116	116	116	116	116	116	116		
PAKA	GT1A	66	67	66	66	65	66	67	66	67	66	66	67	66	67	66	67	66	67	66	67	66	67	66	67	66	67	66	67	66	67	66	67	66	67	66	67	66	67	66	67	66	67	66	67	66	67	66			
PAKA	ST1C	29	29	29	29	30	29	29	30	30	29	30	30	29	30	30	34	34	34	34	34	33	34	33	34	33	34	34	33	33	33	33	34	33	34	29	29	29	29	33	34	34	33	34	34	33	29	29			
PAKA	GT2A	62	63	63	62	62	62	63	62	63	63	63	64	63	63	62	63	84	84	85	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	
PAKA	GT2B	61	62	62	61	61	62	62	61	62	62	62	62	62	62	62	83	83	84	83	84	83	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	
PAKA	ST2C	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	86	86	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	
PAKA	GT3A	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	
PAKA	GT3B	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	
PAKA	ST3C	88																																																	

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		
SGRI	GT22	114	137	136	138	135	114	118	111	124	126	130	133	114	129	111	63	112	137	137	137	137	137	137	137	137	137
SGRI	GT23	114	133	133	135	133	108	117	109	119	124	127	131	111	126	108	108	134	134	135	135	133	133	133	132	132	132
SGRI	ST24	199	222	222	218	223	197	208	197	211	211	210	193	214	198	165	200	223	217	219	214	215	216	219	217	206	219
YPGS	GT11	125	127	128	127	128	128	127	127	128	128	128	128	128	128	128	128	125	125	124	124	124	124	125	124	125	123
YPGS	GT12	130	133	135	132	133	133	133	133	133	133	133	133	133	134	132	134	135	133	131	130	129	129	129	129	129	129
YPGS	ST10	139	139	140	140	140	140	140	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139
YPKA	BLK1	366	367	367	369	369	366	366	369	369	369	369	367	367	368	368	369	369	367	367	364	364	363	363	361	361	362
YPKA	BLK2	374	374	374	376	376	373	373	376	376	376	376	374	374	376	376	376	374	374	372	372	370	370	369	369	369	369
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	116	123	138	133	137	136	137	135
PLPS	GT12	117	145	141	147	132	119	128	116	69	69	69	68	69	70	67	107	118	126	139	136	144	141	141	141	141	147
PLPS	GT13	107	139	129	137	129	107	105	59	61	59	59	61	60	60	61	60	92	113	121	133	129	140	141	141	139	140
PLPS	ST18	131	145	142	145	140	132	135	132	94	93	94	94	94	99	99	98	116	197	206	212	210	213	212	212	211	214
TJGS	GT1A	226	191	193	157	141	138	139	140	139	140	140	141	142	143	137	193	224	223	222	221	224	221	225	221	223	220
TJGS	GT1B	222	187	189	148	135	135	135	135	135	132	133	133	134	190	223	223	223	223	223	223	223	223	222	222	222	222
TJGS	ST1C	258	224	224	198	182	182	182	182	182	182	182	182	182	223	254	258	258	258	258	258	258	258	258	258	258	258
Total OCGT-Gas		5795	5653	5583	5478	5365	5017	5092	5007	4978	5020	5034	5048	4898	5033	4900	4778	5179	5931	6435	6714	6851	6903	6929	6870	6862	6719
PDPS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	85	72	80	73	88	70	72	
PDPS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	84	70	79	72	86	70	71	
PDPS	GT03	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	
PDPS	GT04	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	
PKLG	GT08	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	
PKLG	GT09	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	
PTEK	GT1A	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	
PTEK	GT2A	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	
SRDG	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98	98	98	98	71	70	70	97	
SRDG	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	100	82	94	71	86	70	96	
SRDG	GT03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	123	124	123	111	92	90	
SRDG	GT05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	129	127	125	126	105	91	90	
Total OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97	348	545	610	560	559	469	520	
BSIA	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	0	
BSIA	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	0	
BSIA	HY03	7	10	9	9	10	10	9	10	10	10	10	9	11	11	12	12	24	24	24	25	24	25	14	25	24	
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
KNRG	HY01	16	24	19	23	21	23	24	16	21	22	22	23	21	23	20	18	22	24	23	24	24	35	35	35	36	
KNRG	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		
KNRG	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		
KNYR	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	
KNYR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	84	101	100	101	100	100		
KNYR	HY04	49	101	58	86	60	63	63	50	62	66	63	64	61	66	58	53	49	58	59	100	94	75	95	70	80	
LPIA	HY01	18	20	21	23	22	21	19	20	22	22	21	19	20	22	23	21	19	20	21	22	21	20	18	18	20	
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
PGAU	HY01	7	-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	-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	-1	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	79	79	24	24	23	22		
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	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		

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
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	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	-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	25	38	32	36	33	37	37	28	35	36	36	37	35	39	32	28	28	33	35	38	36	36	69	78
UPLA	HY01	5	5	5	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>143</b>	<b>213</b>	<b>159</b>	<b>197</b>	<b>165</b>	<b>174</b>	<b>173</b>	<b>142</b>	<b>168</b>	<b>176</b>	<b>173</b>	<b>175</b>	<b>165</b>	<b>177</b>	<b>180</b>	<b>149</b>	<b>151</b>	<b>366</b>	<b>312</b>	<b>415</b>	<b>406</b>	<b>604</b>	<b>717</b>	<b>869</b>
PCUF	CUFG	51	50	51	51	51	50	51	50	51	52	52	50	51	52	50	51	52	50	51	50	48	49	46	47
PCUF	CUFK	38	39	41	39	38	39	39	39	39	40	39	40	40	38	38	39	37	23	7	8	7	7	7	7
<b>Total Co-Gen</b>		<b>89</b>	<b>89</b>	<b>92</b>	<b>90</b>	<b>89</b>	<b>90</b>	<b>89</b>	<b>90</b>	<b>89</b>	<b>91</b>	<b>91</b>	<b>91</b>	<b>90</b>	<b>91</b>	<b>92</b>	<b>89</b>	<b>91</b>	<b>91</b>	<b>88</b>	<b>86</b>	<b>88</b>	<b>83</b>	<b>70</b>	<b>55</b>
<b>Total Gen</b>		<b>13007</b>	<b>12740</b>	<b>12503</b>	<b>12337</b>	<b>12182</b>	<b>11794</b>	<b>11713</b>	<b>11595</b>	<b>11595</b>	<b>11640</b>	<b>11652</b>	<b>11677</b>	<b>11516</b>	<b>11663</b>	<b>11533</b>	<b>11380</b>	<b>11779</b>	<b>12803</b>	<b>13309</b>	<b>13799</b>	<b>14179</b>	<b>14619</b>	<b>14814</b>	<b>14841</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	30	31	31	30	30	30	30	30	31	31	29	31	31	30	30	30	31	30	30	31	29	29
TIE-PLTG		-95	-67	-123	37	138	2	7	92	7	-39	23	55	-29	68	82	78	-35	87	49	4	11	71	22	2
Interconnection		-65	-37	-93	68	169	32	37	122	37	-9	53	86	2	97	113	107	-6	118	80	34	41	101	52	33
<b>System Total</b>		<b>13072</b>	<b>12777</b>	<b>12596</b>	<b>12269</b>	<b>12013</b>	<b>11762</b>	<b>11676</b>	<b>11473</b>	<b>11558</b>	<b>11649</b>	<b>11599</b>	<b>11591</b>	<b>11514</b>	<b>11566</b>	<b>11420</b>	<b>11273</b>	<b>11785</b>	<b>12685</b>	<b>13229</b>	<b>13765</b>	<b>14138</b>	<b>14518</b>	<b>14762</b>	<b>14808</b>
SRev ST-Coal		243	248	235	239	230	228	232	145	141	148	147	138	138	139	140	137	143	149	150	143	142	146	144	143
SRev ST-Gas		26	37	36	37	37	36	36	36	36	36	37	36	36	36	37	37	41	14	8	10	8	6	8	2
SRev CCGT-Gas		457	599	669	775	888	1236	1161	1246	1275	1233	1219	1205	1355	1220	1353	1585	1284	812	599	370	253	201	175	234
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133	12	135	70	120	121
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		575	726	726	726	726	726	726	726	726	726	726	726	726	726	575	726	726	625	625	625	625	625	474	625
Hydro		300	79	133	95	127	118	119	150	124	116	119	117	127	115	263	143	141	127	181	78	87	216	102	122
<b>S.Reserve Total</b>		<b>1601</b>	<b>1689</b>	<b>1799</b>	<b>1872</b>	<b>2008</b>	<b>2344</b>	<b>2274</b>	<b>2303</b>	<b>2302</b>	<b>2259</b>	<b>2248</b>	<b>2222</b>	<b>2382</b>	<b>2236</b>	<b>2367</b>	<b>2628</b>	<b>2331</b>	<b>1754</b>	<b>1569</b>	<b>1357</b>	<b>1129</b>	<b>1180</b>	<b>1122</b>	<b>1080</b>