

**Availability At Daily Maximum Demand Hour**

ST-Coal	2,070	MW
ST-Gas	70	MW
ST-Oil	0	MW
Gas	3,811	MW
Hydro	1,517	MW
Distillate	0	MW
<b>Total TNB</b>	<b>7,468</b>	<b>MW</b>
<b>Total IPP</b>	<b>11,092</b>	<b>MW</b>
<b>Total Co-Gen</b>	<b>85</b>	<b>MW</b>
<b>System Total</b>	<b>18,645</b>	<b>MW</b>

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

At Daily Maximum Demand Hour : 16:30	
TNB Generation	5,355 MW
IPP Generation	9,855 MW
Total Set On Bus	16,365 MW
Maximum Demand	15,283 MW
Spinning Reserve	1,070 MW
Net Energy	321,630 MWH
Load Factor	87.7 %

**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	12922	12279	11910	11564	11244	11106	11290	11371	11888	13512	14309	14907	14752	14399	14919	15158	15263	14913	13700	13366	14592	14409	13992	13716

**Gas Usage**

Station	(mmscfd)
GLGR	56
PAKA	167
PGPS	51
SRDG	59
TJGS	104
<b>TNB Total</b>	<b>436</b>
KLPP	114
MPSS	55
PDPS	24
PGLA	88
PKLG	79
PLPS	99
PTEK	15
SGRI	211
YPGS	69
YPKA	131
<b>IPP Total</b>	<b>885</b>
<b>Total Gas</b>	<b>1,322</b>
<b>Total Gas Required :</b>	<b>1,322</b>
<b>Gas Calorific Value :</b>	<b>38.500</b>

**Generation Mix**

Type	MWh	Percentage
ST-Coal	48,561.00	15.10 %
Gas	53,027.00	16.49 %
Hydro	9,856.00	3.06 %
<b>Total TNB</b>	<b>111,444.0</b>	<b>34.65 %</b>
ST-Coal	97,515.0	30.32 %
ST-Gas	5,412.0	1.68 %
Gas	105,781.0	32.89 %
<b>Total IPP</b>	<b>208,708.0</b>	<b>64.89 %</b>
Co-Gen	2,294.0	0.71 %
<b>Total Co-Gen</b>	<b>2,294.0</b>	<b>0.71 %</b>
<b>Total Generation</b>	<b>322,446.0</b>	<b>100.25 %</b>
PLTG	89.0	0.03 %
HVDC	727.0	0.23 %
<b>Interconnection</b>	<b>816.0</b>	<b>0.25 %</b>
<b>Net Energy</b>	<b>321,630.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	329
Hydro	154
Syncon	336
Thermal	180
<b>Total</b>	<b>999</b>

**Weather Temperature**

Weather	Temperature
Morning	Sunny 27
Afternoon	Hot 32

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	283	281	283	281	281	280	282	282	278	281	281	283	282	280	284	284	282	282	284	282	282	281	280	282	284	282	284	280	282	280	284	290	284	284	281	279																		
PKLG	U004	280	280	282	282	280	282	280	279	276	278	282	281	283	277	283	283	282	283	282	282	279	281	281	283	281	279	281	282	280	280	280	284	280	282	282	280	286	281	279															
PKLG	U005	464	464	467	462	462	467	467	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464																
PKLG	U006	464	464	460	463	464	464	467	467	464	461	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464																
JM/G	U001	691	689	690	690	691	695	680	689	689	689	689	691	692	690	681	692	692	694	691	690	690	691	689	690	688	688	689	688	692	691	689	687	691	690	691	689	689	690	690	689	689	683	688	688	692	689								
JM/G	U002	689	684	687	691	691	689	691	693	693	688	691	690	689	691	688	692	690	688	691	690	688	692	690	693	692	692	688	691	692	688	688	690	690	689	689	690	690	689	690	690	689	689	693	688	692	689	692	688	689					
JM/G	U003	543	540	539	540	538	541	539	539	538	541	540	539	540	539	544	652	692	687	691	689	690	688	690	688	691	690	688	692	690	690	693	692	692	688	691	692	688	688	690	690	689	689	693	688	692	689	692	689	690	683	689			
TBIN	U001	625	629	628	628	629	630	630	629	628	625	627	627	628	628	631	629	627	628	628	625	632	628	629	631	630	630	629	630	628	628	629	627	630	628	626	628	626	631	630	630	625	629	627	629	628	627	629	628	627	629				
TBIN	U002	629	631	629	631	633	630	633	632	623	630	629	629	628	633	631	630	628	628	631	629	631	631	629	629	631	630	630	634	632	636	631	633	630	631	629	631	629	632	628	630	632	631	631	631	631	631	631	631	631	631	631			
TBIN	U003	630	631	630	629	631	631	631	631	631	629	630	629	627	632	633	630	629	627	632	633	630	629	631	630	631	631	630	631	631	633	630	631	629	632	628	630	632	631	631	631	631	631	631	631	631	631	631	631	631	631				
JMAH	U001	702	702	702	703	696	701	701	701	696	702	702	697	703	698	703	701	701	701	701	701	700	700	700	700	700	700	700	700	700	700	700	700	699	699	696	700	700	698	704	704	704	698	704	705	699									
Total ST-Coal		6000	5995	5997	6000	5996	6010	6001	6006	5975	5987	5992	5995	5998	5998	6001	6112	6155	6146	6153	6141	6163	6155	6144	6156	6151	6146	6151	6155	6152	6164	6159	6153	6160	6151	6145	6151	6126	6155	6156	6151	6136	6156	6155	6158	6146	6168	6152	6151						
PKLG	U002	271	270	269	201	148	144	144	145	145	144	144	145	149	234	260	254	262	264	266	266	264	262	260	262	264	263	268	268	268	272	274	274	274	266	258	256	256	266	268	268	270	268	267	269	269									
Total ST-Gas		271	270	269	201	148	144	144	145	145	144	144	145	149	234	260	254	262	264	266	266	264	262	260	262	264	263	268	268	268	272	274	274	274	266	258	256	256	266	268	268	270	268	267	269	269									
GLGR	GT01	101	63	64	64	65	65	66	64	65	64	64	63	64	65	66	78	105	103	103	103	102	101	102	101	101	101	100	100	100	100	100	100	100	101	101	61	62	62	101	101	102	102	102	102	102	103	103							
GLGR	GT02	107	67	70	70	69	69	70	69	70	71	71	69	70	71	70	69	85	109	109	109	109	108	108	108	108	108	107	107	107	107	107	107	107	107	107	68	69	69	109	108	108	109	109	108	108	108	108	107	107	107	107	107		
GLGR	ST1C	95	72	68	69	69	69	68	68	68	68	68	68	68	68	68	72	96	96	96	97	97	97	97	97	96	96	96	95	95	95	96	96	95	95	96	73	69	70	90	96	96	96	96	96	96	96	96	96	96	96	97			
KLPP	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	12	12	12	31	31	32	32	32	32	32	32	32	32	32	32	32	31	31	31	31	31	31	31	31	31	32	32	32	0	0	0	0	0				
KLPP	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	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	153	148	113	114	112	112	112	112	112	112	112	112	112	112	112	148	149	149	153	154	155	155	149	153	152	153	153	151	151	150	150	150	150	150	150	106	106	106	150	150	151	151	152	152	153	152	153	152	153	153				
KLPP	GT14	139	118	101	103	102	102	103	65	65	66	66	66	66	66	66	105	132	134	134	134	135	137	137	136	136	139	139	138	138	139	139	137	137	137	138	108	107	137	138	137	139	139	140	140	139	138	138	138	138					
KLPP	GT15	142	115	114	113	115	115	83	70	70	70	70	71	71	87	142	142	143	143	144	144	146	144	144	144	143	144	142	141	141	141	146	144	145	116	112	142	142	143	144	143	143	143	143	143	143	143	143	142	142					
KLPP	ST17	202	195	182	182	180	180	181	138	130	130	129	129	128	128	129	129	150	202	221	230	234	234	234	234	232	232	234	234	235	235	235	235	235	235	235	236	213	213	234	235	235	235	235	235	235	235	235	235	235	235	235	235		
MPSS	GT01	104	64	63	62	65	64	65	66	65	67	66	66	66	65	63	84	109	109	109	109	109	109	109	109	109	108	108	108	106	106	106	106	106	106	106	105	106	106	105	106	106	106	106	106	106	106	106	106	106	108	33			
MPSS	GT02	106	67	68	68	67	68	66	68	65	69	68	67	66	69	67	67	87	109	109	109	109	109	109	109	109	109	109	109	109	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	
MPSS	ST01	114	71	59	56	57	57	57	56	55	55	55	55	55	55	55	70	111	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113			
PAKA	GT1A	84	67	65	65	67	66	66	66	65	65	65	65	65	65	65	65	85	84	83	83	83	83	83	83	83	83	83	83	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82		
PAKA	ST1C	33	28	29	29	29	29	29	29	29	29	29	29	29	29	29	34	33	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34			
PAKA	GT2A	83	66	65	63	66	65	66	66	63	65	64	65	64	85	84	65	64	64	84	85	85	85	85	85	84	86	85	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	
PAKA	GT2B	84	65	64	63	64	65	65	64	63	64	64	64	63	83	84	65	63	63	87	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	87	
PAKA	ST2C	86	75	74	74																																																		



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																										
TMGR	HY04	31	36	33	45	36	34	34	36	41	31	30	29	44	40	29	38	34	31	34	30	36	36	61	57	57	34	34	36	38	62	58	58	60	61	56	56	53	37	35	35	78	77	73	74	73	78	36	36		
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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
<b>Total Hydro</b>		<b>398</b>	<b>416</b>	<b>411</b>	<b>435</b>	<b>342</b>	<b>173</b>	<b>169</b>	<b>197</b>	<b>270</b>	<b>166</b>	<b>164</b>	<b>158</b>	<b>193</b>	<b>203</b>	<b>160</b>	<b>180</b>	<b>172</b>	<b>305</b>	<b>409</b>	<b>351</b>	<b>411</b>	<b>414</b>	<b>505</b>	<b>501</b>	<b>455</b>	<b>380</b>	<b>369</b>	<b>414</b>	<b>479</b>	<b>655</b>	<b>648</b>	<b>635</b>	<b>682</b>	<b>684</b>	<b>591</b>	<b>445</b>	<b>378</b>	<b>306</b>	<b>289</b>	<b>463</b>	<b>636</b>	<b>703</b>	<b>669</b>	<b>693</b>	<b>638</b>	<b>636</b>	<b>448</b>	<b>466</b>		
PCUF	CUFG	49	50	51	51	51	49	52	49	49	51	51	50	50	51	49	51	52	50	48	48	49	49	48	48	49	48	48	49	48	48	47	48	49	48	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	
PCUF	CUFK	39	39	39	39	40	40	40	38	40	39	40	41	40	41	40	38	40	39	40	40	39	37	36	39	39	38	38	38	37	37	36	38	37	39	38	38	38	39	38	38	38	38	38	39	41	40	39	40	40	40
<b>Total Co-Gen</b>		<b>88</b>	<b>89</b>	<b>90</b>	<b>90</b>	<b>91</b>	<b>91</b>	<b>89</b>	<b>92</b>	<b>87</b>	<b>89</b>	<b>90</b>	<b>91</b>	<b>90</b>	<b>92</b>	<b>89</b>	<b>89</b>	<b>92</b>	<b>89</b>	<b>88</b>	<b>88</b>	<b>88</b>	<b>86</b>	<b>84</b>	<b>87</b>	<b>88</b>	<b>86</b>	<b>86</b>	<b>86</b>	<b>86</b>	<b>85</b>	<b>84</b>	<b>85</b>	<b>85</b>	<b>88</b>	<b>86</b>	<b>87</b>	<b>87</b>	<b>88</b>	<b>87</b>	<b>87</b>	<b>88</b>	<b>87</b>	<b>88</b>	<b>88</b>	<b>91</b>	<b>89</b>	<b>89</b>	<b>89</b>		
<b>Total Gen</b>		<b>13018</b>	<b>12514</b>	<b>12375</b>	<b>12051</b>	<b>11902</b>	<b>11738</b>	<b>11552</b>	<b>11420</b>	<b>11352</b>	<b>11164</b>	<b>11173</b>	<b>11143</b>	<b>11302</b>	<b>11551</b>	<b>11502</b>	<b>11425</b>	<b>12047</b>	<b>12897</b>	<b>13598</b>	<b>13863</b>	<b>14258</b>	<b>14643</b>	<b>14924</b>	<b>14995</b>	<b>14793</b>	<b>14494</b>	<b>14456</b>	<b>14570</b>	<b>14892</b>	<b>15156</b>	<b>15195</b>	<b>15204</b>	<b>15296</b>	<b>15295</b>	<b>15028</b>	<b>14426</b>	<b>13820</b>	<b>13522</b>	<b>13414</b>	<b>14211</b>	<b>14590</b>	<b>14637</b>	<b>14425</b>	<b>14233</b>	<b>14001</b>	<b>13977</b>	<b>13778</b>	<b>13522</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	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		31	31	29	29	30	30	30	31	31	30	30	30	31	31	30	30	31	31	30	30	30	31	31	30	30	30	30	31	31	30	30	31	30	31	31	31	31	29	29	30	30	30	30	30	30	30	31	31	31	
TIE-PLTG		65	-80	67	-6	-38	-10	-42	-63	77	57	37	126	-18	43	100	28	129	80	55	64	-81	-53	-14	13	11	42	27	-64	-58	-62	7	21	2	-18	84	42	89	26	19	0	-32	17	-14	-32	-21	9	31	-14		
Interconnection		96	-49	96	23	-8	20	-12	-33	108	88	67	156	12	73	131	59	159	110	86	95	-51	-23	17	44	41	72	57	-34	-27	-31	37	51	33	12	115	73	120	57	48	29	-2	47	16	-2	9	39	62	17		
<b>System Total</b>		<b>12922</b>	<b>12563</b>	<b>12279</b>	<b>12028</b>	<b>11910</b>	<b>11718</b>	<b>11564</b>	<b>11453</b>	<b>11244</b>	<b>11076</b>	<b>11106</b>	<b>10987</b>	<b>11290</b>	<b>11478</b>	<b>11371</b>	<b>11366</b>	<b>11888</b>	<b>12787</b>	<b>13512</b>	<b>13768</b>	<b>14309</b>	<b>14666</b>	<b>14907</b>	<b>14951</b>	<b>14752</b>	<b>14422</b>	<b>14399</b>	<b>14604</b>	<b>14919</b>	<b>15187</b>	<b>15158</b>	<b>15153</b>	<b>15263</b>	<b>15283</b>	<b>14913</b>	<b>14353</b>	<b>13700</b>	<b>13465</b>	<b>13366</b>	<b>14182</b>	<b>14592</b>	<b>14590</b>	<b>14409</b>	<b>14235</b>	<b>13992</b>	<b>13938</b>	<b>13716</b>	<b>13505</b>		
SRev ST-Coal		216	221	219	216	220	206	215	210	241	229	224	221	218	218	215	244	201	210	203	215	193	201	212	200	205	210	205	201	204	192	197	203	196	205	211	205	230	201	200	205	220	200	201	198	210	188	204	205		
SRev ST-Gas		-1	0	1	40	36	36	36	36	36	36	36	36	37	37	36	37	36	10	16	8	6	4	4	6	8	10	8	6	7	2	2	2	3	1	1	9	2	4	4	4	2	2	0	2	3	1	1	1	1	
SRev CCGT-Gas		512	669	805	1088	1088	1093	1264	1433	1538	1635	1630	1659	1538	1297	1308	1476	1133	585	614	584	365	122	134	175	313	334	334	338	229	242	263	269	266	266	319	233	506	774	847	265	173	201	264	249	262	156	153	276		
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	102	116	81	116	156	170	367	395	328	179	89	131	96	62	60	180	180	289	268	286	238	20	34	149	50	73	0	0	0	0	0	0	0	
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	0
Syncon		625	625	625	625	625	726	726	575	575	726	726	726	575	726	726	726	726	625	625	625	474	388	237	388	474	474	474	474	151	302	302	302	302	453	539	625	475	476	475	539	453	453	302	453	302	625	625			
Hydro		102	84	89	65	158	126	130	253	180	133	135	141	106	247	139	119	127	95	91	149	94	92	87	242	132	121	132	87	122	269	125	138	231	229	171	131	112	184	200	127	45	64	98	225	129	182	91	73		
<b>S.Reserve Total</b>		<b>1459</b>	<b>1604</b>	<b>1744</b>	<b>2039</b>	<b>2132</b>	<b>2192</b>	<b>2376</b>	<b>2512</b>	<b>2575</b>	<b>2764</b>	<b>2756</b>	<b>2788</b>	<b>2629</b>	<b>2379</b>	<b>2430</b>	<b>2606</b>	<b>2229</b>	<b>1556</b>	<b>1622</b>	<b>1696</b>	<b>1401</b>	<b>976</b>	<b>941</b>	<b>1014</b>	<b>1219</b>	<b>1519</b>	<b>1555</b>	<b>1441</b>	<b>1219</b>	<b>955</b>	<b>1025</b>	<b>1015</b>	<b>1064</b>	<b>1070</b>	<b>1340</b>	<b>1294</b>	<b>1776</b>	<b>1909</b>	<b>2018</b>	<b>1320</b>	<b>1001</b>	<b>1104</b>	<b>1167</b>	<b>1024</b>	<b>1129</b>	<b>831</b>	<b>1074</b>	<b>1180</b>		