

**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>11,787</b>	<b>MW</b>
<b>Total Co-Gen</b>	<b>85</b>	<b>MW</b>
<b>System Total</b>	<b>19,340</b>	<b>MW</b>

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

At Daily Maximum Demand Hour : 16:00	
TNB Generation	5,294 MW
IPP Generation	9,801 MW
Total Set On Bus	16,192 MW
Maximum Demand	15,165 MW
Spinning Reserve	1,012 MW
Net Energy	323,181 MWH
Load Factor	88.8 %

**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	13367	12566	12161	11813	11622	11765	11649	11467	11896	13396	14120	14561	14562	14338	14910	15015	15165	14541	13885	13602	14244	14491	14159	13886

**Gas Usage**

Station	(mmscfd)
GLGR	57
PAKA	166
PGPS	42
SRDG	20
TJGS	82
<b>TNB Total</b>	<b>367</b>
KLPP	100
MPSS	53
PGLA	90
PKLG	68
PLPS	93
SGRI	217
YPGS	69
YPKA	133
<b>IPP Total</b>	<b>824</b>
<b>Total Gas</b>	<b>1,191</b>

Total Gas Required : 1,191  
Gas Calorific Value : 38.500

**Generation Mix**

Type	MWh	Percentage
ST-Coal	49,614.00	15.35 %
Gas	45,661.00	14.13 %
Hydro	9,004.00	2.79 %
<b>Total TNB</b>	<b>104,279.0</b>	<b>32.27 %</b>
ST-Coal	111,940.0	34.64 %
ST-Gas	6,558.0	2.03 %
Gas	99,058.0	30.65 %
<b>Total IPP</b>	<b>217,556.0</b>	<b>67.32 %</b>
Co-Gen	2,326.0	0.72 %
<b>Total Co-Gen</b>	<b>2,326.0</b>	<b>0.72 %</b>
<b>Total Generation</b>	<b>324,161.0</b>	<b>100.30 %</b>
PLTG	253.0	0.08 %
HVDC	727.0	0.22 %
<b>Interconnection</b>	<b>980.0</b>	<b>0.30 %</b>
<b>Net Energy</b>	<b>323,181.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	204
Hydro	145
Syncon	402
Thermal	191
<b>Total</b>	<b>943</b>

**Weather Temperature**

	Weather	Temperature
Morning	Rainy	25
Afternoon	Hot	35



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	GT21	127	125	130	129	111	128	112	112	125	135	135	113	136	117	113	59	106	107	121	135	136	136	135	135	133	109	113	130	130	130	131	131	131	132	132	117	111	108	114	132	127	126	129	134	135	135	134				
SGRI	GT22	132	129	132	135	117	133	116	116	129	136	135	117	136	119	120	63	110	112	124	138	139	139	137	137	136	111	120	132	133	133	133	134	134	134	134	124	120	113	113	116	135	133	131	132	136	136	136	136			
SGRI	GT23	130	126	130	130	113	128	113	113	126	133	133	115	136	117	116	63	107	111	122	137	136	136	135	135	133	108	116	129	130	130	131	131	131	131	131	124	117	110	110	114	132	131	128	129	134	135	135	133			
SGRI	ST24	221	208	221	214	202	210	195	198	201	221	222	205	216	203	205	159	197	196	208	223	219	216	217	217	217	197	207	222	220	219	218	218	220	219	222	209	214	202	206	203	215	218	218	219	221	218	219	222			
YPGS	GT11	125	125	125	127	127	126	126	126	127	127	125	126	126	126	128	128	123	128	125	125	126	125	125	124	126	123	126	131	131	128	128	127	127	127	128	127	127	127	127	126	127	127	127	126	127	128	128				
YPGS	GT12	131	131	131	132	132	132	129	133	133	131	131	132	132	132	130	132	132	131	131	131	128	130	134	136	133	132	133	133	131	131	132	132	132	132	132	132	132	132	132	131	132	133	133	133	133	132	132				
YPGS	ST10	139	139	139	139	139	138	138	139	138	138	138	138	138	139	139	138	138	139	139	139	139	139	139	139	139	139	140	140	138	138	138	138	138	138	139	139	139	139	139	138	138	139	139	139	139	139	139				
YPKA	BLK1	368	368	368	367	367	369	369	369	369	370	370	370	370	372	372	374	374	373	373	371	371	370	370	369	369	369	366	366	365	365	367	367	367	367	367	367	363	363	363	363	363	363	364	364	366	366	366	366			
YPKA	BLK2	376	376	376	374	374	376	376	376	377	377	377	378	378	380	380	381	381	381	381	378	378	378	378	376	376	377	377	374	374	374	374	374	374	371	371	371	371	371	371	372	371	371	372	374	374	374	374				
PLPS	GT11	136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	146	129	124	119	134	137	115	114	115	120	115	137	155	136	135	136	135	114	124	120	116	115	118	140	132	129	135	51	0	0	0			
PLPS	GT12	140	144	140	131	117	132	118	122	69	69	69	69	69	69	69	69	69	68	68	68	68	127	132	131	140	143	136	119	117	123	118	142	142	141	141	142	139	122	129	135	118	119	120	143	145	134	134	147	138	146	146
PLPS	GT13	133	139	118	124	106	113	107	106	60	59	59	61	58	60	60	60	60	60	126	120	117	129	135	113	112	111	117	112	137	139	131	140	135	138	110	121	114	111	112	115	140	126	124	131	142	137	137	139			
PLPS	ST18	209	147	141	139	132	139	134	132	96	93	94	94	94	94	97	100	98	166	205	209	203	211	212	206	200	199	202	199	211	210	211	211	209	210	204	203	208	200	199	199	208	209	207	209	200	142	142	144			
TJGS	GT1A	223	220	221	220	225	180	181	183	185	185	187	183	182	184	184	184	188	185	225	228	228	213	172	173	173	221	222	221	221	223	223	222	222	222	222	222	222	220	220	223	220	220	223	221	224	223	223				
TJGS	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
TJGS	ST1C	120	120	120	120	120	99	99	99	99	99	99	99	99	99	99	99	99	119	119	119	96	93	93	190	248	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	258	258				
Total CCGT-Gas		5896	5312	5083	5071	4904	4796	4613	4652	4620	4692	4706	4525	4674	4544	4553	4404	4783	5351	5928	6401	6531	6540	6558	6665	6737	6614	6676	6878	6949	6936	6931	6952	6942	6929	6854	6693	6486	6217	6131	6286	6719	6821	6779	6820	6690	6648	6488	6200			
SRDG	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SRDG	GT05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total 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		
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	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	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	22	13	11	11	10	11	10	11	12	12	11	12	11	12	11	12	11	12	13	14	13	13	22	22	22	21	15	13	13	22	22	21	21	22	11	10	10	9	10	9	9	9	9	9	9	9	10	10	11		
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	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	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	23	26	24	23	20	22	19	21	24	25	26	22	24	22	22	25	18	24	25	23	23	32	31	29	21	23	24	25	37	36	35	36	36	22	19	21	19	23	23	24	24	20	20	21	21	21	22	25			
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	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	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	99	100	100	99	92	59	49	54	-1	-1	-1	-1	-1	-1	-1	-1	-1	79	97	60	59	82	89	60	58	61	62	80	65	85	65	73	100	100	95	100	58	64	69	71	100	100	100	100	-1	-1	-1	-1			
KNYR	HY02	100	101	100	100	61	62	60	60	62	74	102	60	62	61	61	81	27	0	90	64	65	76	92	64	60	61	64	69	66	65	62	72	101	101	99	100	61	66	66	69	101	100	100	100	0	0	0	0			
KNYR	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
LPIA	HY01	20	19	19	20	22	22	21	19	19	21	23	22	21	20	19	19	21	23	22	20	18	19	20	22	23	21	19	19	20	22	23	21	19	20	22	24	23														

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																									
Total Co-Gen	90	90	89	89	89	91	92	90	89	91	91	90	90	92	91	91	89	92	90	90	89	92	89	88	91	91	89	89	88	86	85	86	87	83	84	86	85	85	84	87	87	90	88	91	91	90			
Total Gen	13419	12837	12610	12489	12272	12169	11957	11834	11627	11642	11745	11488	11667	11511	11538	11443	12006	12746	13480	13853	14201	14396	14644	14800	14686	14418	14394	14607	14956	15064	15039	15060	15189	15154	14839	14341	13974	13748	13638	13814	14304	14579	14528	14454	14071	14055	13885	13707	
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	29	31	31	30	30	30	29	29	30	31	31	31	31	31	31	30	30	30	31	31	31	31	31	31	31	31	30	30	31	31	30	30	30	30	30	30	30	31	31	30	30	30	31	31	30	30		
TIE-PLTG	23	-32	13	-6	81	61	114	93	-24	-34	-50	78	-13	18	38	-36	79	-44	53	100	51	34	52	79	93	63	25	-15	16	-58	-6	-5	-16	189	268	98	59	-23	6	9	29	-10	7	30	-118	-136	-32	20	
Interconnection	52	-3	44	25	111	91	144	123	5	-5	-20	109	18	49	68	-7	110	-13	84	130	81	64	83	110	124	94	56	16	46	-28	24	26	15	219	298	128	89	7	36	40	60	20	37	60	-88	-105	-1	50	
<b>System Total</b>	<b>13367</b>	<b>12840</b>	<b>12566</b>	<b>12464</b>	<b>12161</b>	<b>12078</b>	<b>11813</b>	<b>11711</b>	<b>11622</b>	<b>11647</b>	<b>11765</b>	<b>11379</b>	<b>11649</b>	<b>11462</b>	<b>11467</b>	<b>11450</b>	<b>11896</b>	<b>12759</b>	<b>13396</b>	<b>13723</b>	<b>14120</b>	<b>14332</b>	<b>14561</b>	<b>14690</b>	<b>14562</b>	<b>14324</b>	<b>14338</b>	<b>14591</b>	<b>14910</b>	<b>15092</b>	<b>15015</b>	<b>15034</b>	<b>15165</b>	<b>14935</b>	<b>14541</b>	<b>14213</b>	<b>13885</b>	<b>13741</b>	<b>13602</b>	<b>13774</b>	<b>14244</b>	<b>14559</b>	<b>14491</b>	<b>14394</b>	<b>14159</b>	<b>14160</b>	<b>13886</b>	<b>13657</b>	
SRev ST-Coal	214	216	250	259	223	218	226	271	270	268	264	283	266	284	266	270	258	215	218	208	214	212	214	215	222	220	214	220	212	205	211	214	216	221	225	214	225	211	215	202	222	211	200	211	204	199	207	235	
SRev ST-Gas	10	8	10	-7	9	17	15	43	41	40	40	40	40	41	40	40	46	17	14	12	14	5	-16	-17	9	13	19	5	13	11	6	6	-6	14	10	8	14	15	14	14	14	14	16	16	15	5	5	4	
SRev CCGT-Gas	227	531	620	632	799	907	1090	1051	1083	1011	997	1178	1029	1159	1150	1299	1300	1102	625	275	165	213	195	102	227	477	432	230	159	172	172	151	161	174	249	410	497	766	852	697	264	162	204	163	293	125	124	262	
SRev OCGT-Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	6	7	4	59	70	73	65	8	8	8	10	100	75	65	87	0	0	0	0	0	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	
Syncon	474	474	323	474	474	474	474	474	575	575	575	575	575	575	575	424	575	474	474	474	474	474	474	474	323	324	475	625	625	474	474	474	474	453	453	539	625	625	474	625	625	474	302	453	539	726	726	726	575
Hydro	75	73	153	85	139	163	187	178	123	106	111	171	159	166	170	262	223	143	84	196	189	131	176	430	292	223	198	174	186	140	155	148	88	72	177	85	186	309	178	170	93	256	123	144	116	98	100	113	
<b>S.Reserve Total</b>	<b>1000</b>	<b>1302</b>	<b>1356</b>	<b>1443</b>	<b>1644</b>	<b>1779</b>	<b>1992</b>	<b>2017</b>	<b>2092</b>	<b>2000</b>	<b>1987</b>	<b>2247</b>	<b>2069</b>	<b>2225</b>	<b>2201</b>	<b>2295</b>	<b>2402</b>	<b>2051</b>	<b>1415</b>	<b>1165</b>	<b>1066</b>	<b>1041</b>	<b>1050</b>	<b>1057</b>	<b>1133</b>	<b>1478</b>	<b>1561</b>	<b>1319</b>	<b>1052</b>	<b>1010</b>	<b>1026</b>	<b>1003</b>	<b>1012</b>	<b>1009</b>	<b>1265</b>	<b>1429</b>	<b>1547</b>	<b>1775</b>	<b>1884</b>	<b>1708</b>	<b>1067</b>	<b>945</b>	<b>996</b>	<b>1073</b>	<b>1354</b>	<b>1153</b>	<b>1162</b>	<b>1189</b>	