

**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 MW</b>
<b>Total IPP</b>	<b>10,173 MW</b>
<b>Total Co-Gen</b>	<b>57 MW</b>
<b>System Total</b>	<b>17,699 MW</b>

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

At Daily Maximum Demand Hour : 14:30		
TNB Generation	5,037 MW	
IPP Generation	8,142 MW	
Total Set On Bus	14,254 MW	
Maximum Demand	13,275 MW	
Spinning Reserve	1,018 MW	
Net Energy	295,685 MWH	
Load Factor	92.8 %	

**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	12944	12430	11992	11627	11417	11571	11106	10943	10520	11638	12523	13138	13118	12845	13134	13085	13009	12599	12331	12343	12836	12898	12725	12371

**Gas Usage**

Station	(mmscfd)
GLGR	56
PAKA	159
PGPS	50
SRDG	32
TJGS	106
<b>TNB Total</b>	<b>404</b>
KLPP	5
MPSS	51
PGLA	93
PKLG	59
PLPS	97
SGRI	178
YPGS	69
YPKA	132
<b>IPP Total</b>	<b>685</b>
<b>Total Gas</b>	<b>1,088</b>
Total Gas Required :	1,088
Gas Calorific Value :	38,500

**Generation Mix**

Type	MWh	Percentage
ST-Coal	49,521.00	16.75 %
Gas	50,153.00	16.96 %
Hydro	8,513.00	2.88 %
<b>Total TNB</b>	<b>108,187.0</b>	<b>36.59 %</b>
ST-Coal	98,623.0	33.35 %
ST-Gas	5,764.0	1.95 %
Gas	82,310.0	27.84 %
<b>Total IPP</b>	<b>186,697.0</b>	<b>63.14 %</b>
Co-Gen	1,641.0	0.55 %
<b>Total Co-Gen</b>	<b>1,641.0</b>	<b>0.55 %</b>
<b>Total Generation</b>	<b>296,525.0</b>	<b>100.28 %</b>
PLTG	120.0	0.04 %
HVDC	720.0	0.24 %
<b>Interconnection</b>	<b>840.0</b>	<b>0.28 %</b>
<b>Net Energy</b>	<b>295,685.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	384
Hydro	180
Syncon	259
Thermal	129
<b>Total</b>	<b>953</b>

**Weather Temperature**

Weather	Temperature
Morning	Sunny 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	GT23	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	ST24	205	154	150	151	149	150	154	154	139	149	151	134	147	152	132	139	139	150	130	129	144	133	133	132
YPGS	GT11	128	131	128	129	129	129	129	129	129	129	129	128	126	127	127	126	126	124	123	124	123	123	123	123
YPGS	GT12	133	133	133	136	133	133	132	133	132	134	135	135	134	134	134	133	133	132	132	132	130	131	131	131
YPGS	ST10	139	139	138	138	139	139	139	139	139	139	139	140	140	139	139	139	139	138	138	138	139	139	139	138
YPKA	BLK1	368	369	369	369	368	368	368	369	369	368	368	369	366	366	366	361	360	360	359	359	359	360	361	361
YPKA	BLK2	376	376	376	376	376	374	374	375	375	376	376	376	376	376	375	373	373	369	367	367	366	366	367	367
PLPS	GT11	115	133	59	0	0	0	0	0	0	0	0	0	0	0	0	75	114	136	132	123	121	123	116	
PLPS	GT12	118	130	133	137	123	134	122	145	123	143	134	69	69	68	69	68	69	68	68	70	70	144	125	
PLPS	GT13	111	131	117	118	127	139	110	138	111	125	139	76	60	62	60	62	59	61	59	139	110	137	127	
PLPS	ST18	198	206	195	142	138	142	136	144	134	141	140	108	95	96	100	99	98	100	99	144	202	213	202	
TJGS	GT1A	227	192	192	194	194	198	196	160	160	141	142	138	138	142	142	138	139	173	221	221	220	218	217	
TJGS	GT1B	225	187	187	190	188	188	191	154	152	135	135	131	132	132	135	132	134	166	219	223	220	220	220	
TJGS	ST1C	258	224	224	224	224	224	196	196	184	184	184	184	184	184	184	194	249	256	256	256	256	256	256	
Total CCGT-Gas		6246	5830	5596	5441	5265	5247	5125	4991	4887	4905	4923	4690	4750	4756	4598	4467	4466	4644	5058	5635	5711	5835	5862	
SRDG	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	71	70	70	70	70	70	
SRDG	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	71	74	72	75	70	71	
SRDG	GT03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87	87	89	91	89	89	88	
Total CCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	181	158	212	234	234	229	229	
BSIA	HY02	11	12	12	12	12	11	11	11	11	11	11	12	11	11	11	12	11	11	12	11	11	12	11	
CEND	HY02	9	9	9	10	10	10	9	10	9	10	9	9	10	10	10	9	10	9	9	9	10	9	10	
CEND	HY03	10	10	10	9	10	10	10	9	10	9	9	9	10	10	10	9	9	9	9	9	10	9	10	
KNRG	HY01	20	22	20	18	21	23	18	20	20	21	22	18	21	21	21	23	25	25	24	23	18	20	35	
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	
KNRG	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	22	22	35	35	
KNYR	HY01	49	68	65	61	24	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	100	100	100	100	100	100	
KNYR	HY02	58	62	61	60	0	0	0	0	0	0	0	0	0	0	0	0	101	100	101	101	99	101	100	
KNYR	HY04	48	81	64	60	100	101	60	99	61	75	101	53	82	91	53	56	63	101	64	61	61	67		
LPIA	HY01	19	21	22	21	19	19	21	21	20	19	19	21	22	20	21	23	24	22	23	25	24	23	25	
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	1	1	1	1	3	3	3	3	3	3	3	
PGAU	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	
PGAU	HY03	-1	23	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
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	
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	
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	
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	
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	29	65	34	31	33	34	32	
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	28	61	34	30	32	33	31	
TMGR	HY04	34	37	35	31	35	36	31	33	31	32	34	26	29	33	29	32	36	37	35	34	32	34	32	
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	
UPIA	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3	3	
Total Hydro		262	350	302	286	235	214	161	206	166	182	210	148	187	221	158	169	183	223	178	173	171	379	519	
PCUF	CUFG	50	50	50	49	51	50	51	51	51	51	51	51	52	51	51	52	52	52	51	51	50	50	50	
PCUF	CUFK	11	11	11	10	11	12	11	11	11	11	10	11	11	12	13	12	10	10	9	9	6	7	6	
Total Co-Gen		61	61	61	59	62	62	62	62	61	61	62	62	63	62	63	65	64	62	61	60	59	56	57	
Total Gen		13072	12740	12444	12290	12009	11897	11722	11624	11485	11512	11563	11264	11220	11264	11027	10673	10698	11159	11656	12274	12602	12923	13151	

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
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	30	30	30	31	31	31	30	30	31	31	29	29	30	30	30	29	29	30	30	30	30
TIE-PLTG		98	-48	-16	43	-13	-6	65	41	37	28	-39	58	84	-19	53	73	148	-92	-13	30	50	-85	-17	-38
Interconnection		128	-18	14	73	17	24	95	72	68	59	-8	88	114	12	84	103	178	-61	18	59	79	-55	13	-8
<b>System Total</b>		<b>12944</b>	<b>12758</b>	<b>12430</b>	<b>12217</b>	<b>11992</b>	<b>11873</b>	<b>11627</b>	<b>11552</b>	<b>11417</b>	<b>11453</b>	<b>11571</b>	<b>11176</b>	<b>11106</b>	<b>11252</b>	<b>10943</b>	<b>10570</b>	<b>10520</b>	<b>11220</b>	<b>11638</b>	<b>12215</b>	<b>12523</b>	<b>12978</b>	<b>13138</b>	<b>13234</b>
SRev ST-Coal		143	145	148	142	146	150	145	147	144	146	145	153	208	199	202	431	423	210	151	146	156	151	144	149
SRev ST-Gas		7	10	8	7	42	37	37	37	37	38	38	37	37	37	37	37	37	37	40	23	13	7	9	7
SRev CCGT-Gas		491	565	799	814	747	701	823	957	1061	1043	1025	1258	1198	1192	1350	1481	1482	1304	890	453	447	323	296	351
SRev 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
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		474	323	474	474	474	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575
Hydro		234	297	194	210	161	81	134	89	129	113	85	147	108	225	137	126	112	72	117	122	124	117	225	118
<b>S.Reserve Total</b>		<b>1349</b>	<b>1340</b>	<b>1623</b>	<b>1647</b>	<b>1570</b>	<b>1544</b>	<b>1714</b>	<b>1805</b>	<b>1946</b>	<b>1915</b>	<b>1868</b>	<b>2170</b>	<b>2126</b>	<b>2077</b>	<b>2301</b>	<b>2650</b>	<b>2629</b>	<b>2198</b>	<b>1770</b>	<b>1336</b>	<b>1374</b>	<b>1150</b>	<b>1092</b>	<b>1025</b>