

**Availability At Daily Maximum Demand Hour**

ST-Coal	2,070 MW
ST-Gas	0 MW
ST-Oil	70 MW
Gas	3,095 MW
Hydro	1,675 MW
Distillate	890 MW
<b>Total TNB</b>	<b>7,800 MW</b>
<b>Total IPP</b>	<b>10,235 MW</b>
<b>Total Co-Gen</b>	<b>77 MW</b>
<b>System Total</b>	<b>18,112 MW</b>

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

At Daily Maximum Demand Hour : 16:30		
TNB Generation	6,593 MW	
IPP Generation	9,231 MW	
Total Set On Bus	17,199 MW	
Maximum Demand	15,984 MW	
Spinning Reserve	1,298 MW	
Net Energy	331,558 MWH	
Load Factor	86.4 %	

**Maximum Demand Record**

Date :	13/05/2013	16,562.0 MW
Date :	14/05/2013	344,423.0 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	13517	12960	12448	12099	11670	11482	11550	11397	12178	13818	14699	15503	15539	15176	15678	15819	15819	15555	14313	14072	14694	14593	13988	13705

**Gas Usage**

Station	(mmscfd)
CBPS	62
GLGR	58
PAKA	192
PGPS	1
SRDG	28
TJGS	112
<b>TNB Total</b>	<b>453</b>
KLPP	48
MPSS	37
PDPS	1
PGLA	107
PKLG	9
PLPS	88
PTEK	8
SGB3	38
SGRI	85
SKSP	54
YPGS	69
YPKA	131
<b>IPP Total</b>	<b>676</b>
<b>Total Gas</b>	<b>1,129</b>
Total Gas Required :	1,548
Gas Calorific Value :	38,500

**Alternate Fuel Usage**

Station	(mmscfd)
CBPS	24
KLPP	57
MPSS	10
PDPS	51
PGGS	13
PGPS	40
PKLG	66
PLPS	28
PTEK	14
SGB3	34
SGRI	66
SRDG	16
<b>Total</b>	<b>419</b>

**Generation Mix**

Type	MWh	Percentage
ST-Coal	46,061.00	13.89 %
ST-Gas	43.00	0.01 %
Gas	54,854.00	16.54 %
Hydro	18,886.00	5.70 %
Distillate	10,048.00	3.03 %
<b>Total TNB</b>	<b>129,892.0</b>	<b>39.18 %</b>
ST-Coal	75,485.0	22.77 %
ST-Oil	6,451.0	1.95 %
Gas	86,738.0	26.16 %
Distillate	30,390.0	9.17 %
<b>Total IPP</b>	<b>199,064.0</b>	<b>60.04 %</b>
Co-Gen	2,102.0	0.63 %
<b>Total Co-Gen</b>	<b>2,102.0</b>	<b>0.63 %</b>
<b>Total Generation</b>	<b>331,058.0</b>	<b>99.85 %</b>
PLTG	196.0	0.06 %
HVDC	-696.0	-0.21 %
<b>Interconnection</b>	<b>-500.0</b>	<b>-0.15 %</b>
<b>Net Energy</b>	<b>331,558.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	449
Hydro	171
Syncon	182
Thermal	209
<b>Total</b>	<b>1012</b>



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	GT12	0	0	0	0	59	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
SGRI	ST14	138	138	138	142	141	118	92	89	89	86	90	87	86	88	90	90	91	63	76	73	73	72	72	72
SGRI	GT21	137	137	137	136	136	138	57	58	58	58	58	58	58	58	65	138	138	137	137	135	135	135	135	135
SGRI	GT22	0	0	0	0	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
SGRI	GT23	108	108	108	108	108	58	58	58	58	58	57	57	59	59	58	58	58	58	58	58	58	58	58	58
SGRI	ST24	200	205	204	206	189	169	145	140	139	140	142	138	141	140	141	138	141	218	216	220	187	207	210	206
YPGS	GT11	129	126	127	129	128	128	128	127	128	130	128	128	127	129	128	128	126	126	124	128	125	125	123	123
YPGS	GT12	132	135	133	133	132	132	134	134	134	134	133	134	133	131	133	134	130	132	131	131	129	129	130	127
YPGS	ST10	140	140	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139
YPKA	BLK1	363	364	364	366	366	365	365	366	366	366	366	366	366	369	369	367	366	366	374	362	363	363	362	362
YPKA	BLK2	370	371	371	374	374	373	373	374	374	374	374	374	375	375	375	375	375	374	363	360	360	365	365	361
PLPS	GT11	140	130	136	140	118	140	140	115	116	117	116	116	117	123	115	116	138	140	120	138	137	136	137	136
PLPS	GT12	144	134	141	146	122	144	143	119	118	121	120	121	127	117	118	147	145	123	144	143	143	143	143	143
PLPS	GT13	142	123	132	129	116	136	136	112	110	113	112	114	109	111	113	138	140	117	138	138	140	140	140	138
PLPS	ST18	212	208	211	213	197	208	212	197	199	199	200	199	201	198	197	198	213	213	200	213	213	211	211	211
SKSP	BLK1	337	279	298	311	235	259	314	223	217	240	228	214	250	233	212	216	342	338	302	338	334	336	332	332
TJGS	GT1A	220	209	220	212	215	218	209	220	145	121	122	111	126	123	186	152	222	220	200	221	218	221	222	219
TJGS	GT1B	212	208	213	214	211	213	210	218	138	112	110	99	120	112	179	148	217	219	194	216	216	216	216	216
TJGS	ST1C	249	246	244	230	241	245	235	249	204	175	160	159	166	177	222	214	249	249	234	255	255	255	255	255
Total CCGT-Gas		6590	6470	6289	6165	5933	6016	5813	5522	5314	5182	5154	5112	5202	5195	5317	5260	5738	6759	6764	6998	6986	7036	6996	7044
CBPS	GT06	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	GT01	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	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
PGGS	GT6B	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
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
PTEK	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
SRDG	GT01	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	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
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
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
TJGS	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
Total CCGT-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
BSIA	HY02	22	21	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
BSIA	HY03	23	23	11	11	11	11	11	11	11	10	11	12	10	11	14	23	23	24	24	24	24	24	24	24
CEND	HY01	10	10	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
CEND	HY02	9	9	9	8	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
CEND	HY03	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
KNRG	HY01	23	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY02	22	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	21	21	22	22	23	24	23	23	23	23	21	23	23	21	22	25	23	22	24	36	35	35	35	35
KNYR	HY01	101	101	101	101	102	101	102	101	101	102	101	101	102	101	102	101	101	101	101	101	101	101	101	101
KNYR	HY02	99	99	100	100	100	101	101	100	101	100	100	100	100	100	98	100	102	101	99	102	101	100	101	100
KNYR	HY03	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
KNYR	HY04	60	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	23	22	22	22	22	23	23	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
MNOR	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	HY01	79	78	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
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	111	110	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY04	-1	-1	-1	-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	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
TMGR	HY01	68	67	34	34	37	39	36	36	35	36	34	31	37	35	26	33	44	38	28	42	82	75	81	77
TMGR	HY02	75	-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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UPIA	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
Total Hydro		865	701	434	433	439	443	439	438	436	438	436	429	462	460	419	434	452	544	530	806	1438	1435	1443	1403
CBPS	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
CBPS	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
KLPP	GT14	123	124	119	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KLPP	GT15	133	134	134	133	135	134	134	135	134	134	135	133	133	137	133	134	134	134	134	134	133	132	132	133
MPSS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MPSS	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
PDPS	GT01	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	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
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
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
PGGS	GT6A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGGS	GT6B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGPS	GT3A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGPS	GT3B	0	0	88	87	88	90	88	87	89	87	88	88	88	88	88	88	88	88	88	88	88	88	88	88
PGPS	ST3C	0	0	40	41	40	41	41	40	40	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41
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
SGB3	GT31	122	122	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	GT33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	ST34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT12	129	129	129	128	128	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	ST14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT22	125	124	124	124	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT23	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
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	ST18	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 Distillate		632	633	660	525	438	302	263	262	263	261	263	264	262	264	261	264	266	263	345	568	932	1353	1459	1562
PCUF	CUF6	54	53	52	54	52	51	53	55	52	54	52	54	53	52	51	53	51	52	54	53	52	53	53	53
PCUF	CUFK	31	31	32	33	32	33	30	30	33	33	33	32	31	33	34	34	31	29	30	28	27	25	25	27
Total Co-Gen		85	84	84	87	84	84	83	85	85	87	85	86	84	85	88	85	84	83	82	82	80	81	78	77
Total Gen		13664	13393	12967	12702	12399	12342	12100	11799	11594	11458	11424	11376	11501	11493	11570	11551	12056	13182	13818	14402	14693	15239	15421	15531
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	-31	-28	-29	-30	-28	-28	-29	-29	-29	-28	-28	-30	-30	-28	-28	-30	-30	-29	-29	-29	-29	-28	-28
TIE-PLTG		177	51	35	5	-19	-31	29	-4	-47	-22	-29	-28	-21	-62	203	-19	-94	-4	29	-1	24	-6	-53	-45

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																										
Interconnection		147	20	7	-24	-49	-59	1	-33	-76	-51	-58	-56	-49	-92	173	-47	-122	-33	0	-31	-6	-35	-82	-73	-36	30	85	-8	34	-29	15	-44	19	-83	-15	-41	4	17	-67	-48	-29	15	-26	-40	37	-8	31	-13		
<b>System Total</b>		13517	13373	12960	12726	12448	12401	12099	11832	11670	11509	11482	11432	11550	11585	11397	11598	12178	13215	13818	14433	14699	15274	15503	15604	15539	15282	15176	15443	15678	15877	15819	15934	15819	15984	15555	14909	14313	14012	14072	14576	14694	14741	14593	14305	13988	13965	13705	13375		
SRev ST-Coal		216	212	210	217	208	208	211	213	213	217	220	214	209	214	221	207	196	214	219	211	211	222	225	222	223	221	230	244	263	258	259	238	222	218	230	229	230	227	229	235	232	221	234	228	226	218	226	208		
SRev ST-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	
SRev ST-Oil		12	12	18	13	12	12	11	17	18	18	19	19	19	19	17	11	12	12	11	11	12	12	12	12	11	11	12	12	12	12	11	11	11	11	12	12	11	11	14	17	17	17	16	13	14	11	12	12		
SRev CCGT-Gas		345	465	531	505	737	794	1137	1428	1636	1680	1708	1750	1660	1667	1545	1602	1510	539	514	280	492	302	202	224	237	458	300	268	284	289	296	468	386	348	401	461	533	854	894	482	301	205	234	148	209	157	208	376		
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	76	14	18	128	16	17	114	199	194	166	65	38	72	60	51	98	8	32	0	0	0	0	0	0	0	0	0	0	0	0		
SRev Distillate		48	47	190	185	132	128	27	28	27	29	27	26	28	26	29	26	24	27	45	150	176	145	179	186	187	209	287	263	200	199	251	158	240	167	172	275	330	194	181	192	192	158	185	103	196	95	95	184		
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	
Syncon		388	474	625	625	625	625	625	625	625	625	625	474	474	625	625	625	474	474	323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydro		256	191	119	120	114	110	114	115	117	115	117	124	242	244	134	119	101	160	174	284	76	104	96	136	158	234	395	446	236	241	277	256	265	154	326	150	123	118	111	135	205	170	226	70	310	172	182	181		
<b>S.Reserve Total</b>		1265	1401	1693	1665	1828	1877	2125	2426	2636	2684	2716	2758	2632	2644	2571	2590	2468	1521	1513	1273	985	913	730	797	930	1332	1418	1399	1060	1037	1166	1342	1326	1298	1451	1784	1852	2029	2054	1535	1400	1308	1283	1101	1343	1192	1262	1500		