

**Availability At Daily Maximum Demand Hour**

ST-Coal	1,200 MW
ST-Gas	0 MW
ST-Oil	160 MW
Gas	3,437 MW
Hydro	1,619 MW
Distillate	765 MW
<b>Total TNB</b>	<b>7,181 MW</b>
<b>Total IPP</b>	<b>10,847 MW</b>
<b>Total Co-Gen</b>	<b>70 MW</b>
<b>System Total</b>	<b>18,098 MW</b>

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

At Daily Maximum Demand Hour : 11:30	
TNB Generation	4,969 MW
IPP Generation	8,300 MW
Total Set On Bus	14,378 MW
Maximum Demand	13,361 MW
Spinning Reserve	1,039 MW
Net Energy	283,058 MWH
Load Factor	88.3 %

**Maximum Demand Record**

<b>Date :</b>	09/05/2011	15,476.0 MW
<b>Date :</b>	10/05/2011	318,459.0 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	11816	11120	10811	10485	10331	10445	10431	10455	10708	12005	12753	13255	13189	12660	12708	13057	13073	12696	12268	12127	12331	12684	12238	11964

**Gas Usage**

Station	(mmscfd)
CBPS	42
GLGR	31
PAKA	153
PGPS	48
TJGS	47
<b>TNB Total</b>	<b>319</b>
KLPP	45
MPSS	49
PGLA	35
PLPS	95
SGB3	61
SGRI	26
SKSP	48
YPGS	34
YPKA	140
<b>IPP Total</b>	<b>534</b>
<b>Total Gas</b>	<b>854</b>

**Total Gas Required :** 1,223  
**Gas Calorific Value :** 38.500

**Alternate Fuel Usage**

Station	(mmscfd)
KLPP	34
PGLA	38
PGPS	34
PKLG	135
SGB3	5
SGRI	15
TJGS	107
<b>Total</b>	<b>369</b>

**Generation Mix**

Type	MWh	Percentage
ST-Coal	27,358.00	9.67 %
ST-Oil	3,223.00	1.14 %
Gas	40,776.00	14.41 %
Hydro	13,937.00	4.92 %
Distillate	16,294.00	5.76 %
<b>Total TNB</b>	<b>101,588.0</b>	<b>35.89 %</b>
ST-Coal	81,808.0	28.90 %
ST-Oil	13,319.0	4.71 %
Gas	71,819.0	25.37 %
Distillate	12,074.0	4.27 %
<b>Total IPP</b>	<b>179,020.0</b>	<b>63.24 %</b>
Co-Gen	1,761.0	0.62 %
<b>Total Co-Gen</b>	<b>1,761.0</b>	<b>0.62 %</b>
<b>Total Generation</b>	<b>282,369.0</b>	<b>99.76 %</b>
PLTG	10.0	0.00 %
HVDC	-699.0	-0.25 %
<b>Interconnection</b>	<b>-689.0</b>	<b>-0.24 %</b>
<b>Net Energy</b>	<b>283,058.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	560
Hydro	120
Syncon	439
Thermal	10
<b>Total</b>	<b>1128</b>

**Weather Temperature**

Weather	Temperature
Morning	Sunny 27
Afternoon	Rainy 28



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	ST14	64	64	64	64	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT21	0	0	0	0	0	0	0	0	65	104	105	105	105	106	106	105	105	105	107	107	107	107	107	107
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
SGRI	ST24	134	132	128	80	60	66	66	64	64	38	60	60	60	63	63	62	62	62	63	63	62	62	62	62
YPGS	GT12	106	105	105	105	106	106	106	106	107	107	108	107	108	108	108	108	107	108	106	107	107	107	107	107
YPGS	ST10	69	69	69	69	68	68	68	68	68	68	68	68	68	68	69	69	68	68	69	69	69	69	69	69
YPKA	BLK1	398	395	395	394	394	394	394	396	396	394	397	395	395	394	394	393	393	393	393	388	388	386	386	384
YPKA	BLK2	400	397	397	394	394	394	394	396	396	394	397	395	395	394	394	396	394	394	395	395	394	394	396	394
PLPS	GT11	140	0	0	0	0	0	0	0	0	0	0	0	0	64	139	143	129	115	140	142	128	128	115	115
PLPS	GT12	146	146	146	110	110	110	110	110	110	110	110	110	110	149	149	130	115	143	147	131	134	118	123	117
PLPS	GT13	138	144	144	99	99	98	97	98	98	99	97	98	100	99	98	99	99	99	142	147	123	112	127	138
PLPS	ST18	212	152	145	133	133	133	133	133	133	133	133	133	133	206	214	214	201	208	216	205	208	208	200	200
SKSP	BLK1	298	317	282	253	252	238	261	248	260	282	297	257	299	294	291	249	255	293	212	267	227	294	335	272
TJGS	GT1A	105	105	133	133	133	133	134	131	131	131	131	131	133	133	133	211	222	222	197	221	220	221	193	137
TJGS	ST1C	68	68	80	80	80	80	80	80	80	80	80	80	80	80	80	107	119	119	105	119	116	120	117	84
Total CCGT-Gas		4490	4207	4173	3938	3891	3795	3683	3703	3701	3808	3910	3827	3910	3890	3899	3829	3995	4748	5154	5516	5509	5725	5879	5651
BSIA	HY01	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	21	21	21	21	21	21	21
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	9	9	9
CEND	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	9	9	9
CEND	HY03	10	9	10	10	9	10	10	10	9	10	9	10	10	10	8	7	10	9	10	9	10	9	10	9
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	23	21	22	23	21	26	22	24	24	26	22	26	24	22	21	18	19	20	21	25	23	24	24
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
KNYR	HY01	91	91	0	0	0	0	0	0	21	0	0	0	0	0	96	58	51	87	89	97	95	97	95	57
KNYR	HY02	98	96	68	93	97	80	-1	-1	-1	-1	-1	-1	-1	-1	100	59	54	90	91	103	99	101	100	
KNYR	HY04	98	96	68	93	99	82	103	102	103	103	89	103	103	88	100	58	54	90	93	101	99	101	99	56
LPIA	HY01	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
LPIA	HY02	18	19	18	18	18	19	19	18	18	19	18	18	19	19	19	18	18	18	18	18	18	18	18	18
MNOR	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
PGAU	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	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	HY04	21	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
SIHY	HY01	50	50	50	49	49	49	49	49	0	0	0	0	0	30	30	30	30	30	30	30	30	30	30	30
SIHY	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
SIHY	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
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25
TMGR	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
TMGR	HY02	50	40	37	39	41	39	83	39	61	53	83	42	83	52	64	40	40	35	37	39	37	70	52	74
TMGR	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
TMGR	HY04	36	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Total Hydro		565	492	340	392	404	367	357	309	280	296	327	247	303	304	317	276	479	347	338	448	453	575	552	918
KLPP	GT15	136	137	137	137	137	137	137	137	137	138	137	139	138	138	137	134	134	134	134	135	135	135	135	135
PGLA	GT11	200	200	200	199	200	199	199	201	199	201	199	197	200	200	200	200	215	216	215	215	180	178	178	179
SGB3	GT32	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																								
SGRI	GT21	125	125	125	125	126	126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																							
SGRI	GT22	127	128	86	0	0	0	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	0																							
TJGS	GT2A	224	228	227	227	225	227	228	227	227	190	191	191	192	192	191	191	225	228	228	228	228	228	228	227	228	227																						
TJGS	GT2B	223	222	222	223	223	223	223	222	223	187	187	187	187	187	186	187	220	221	224	221	221	223	223	223	223	223																						
TJGS	ST2C	245	245	245	246	245	246	246	246	245	226	222	223	223	222	223	251	245	244	245	245	245	245	245	245	245	246																						
<b>Total Distillate</b>		<b>1280</b>	<b>1285</b>	<b>1242</b>	<b>1157</b>	<b>1155</b>	<b>1157</b>	<b>1158</b>	<b>1159</b>	<b>1158</b>	<b>1032</b>	<b>940</b>	<b>934</b>	<b>940</b>	<b>940</b>	<b>938</b>	<b>936</b>	<b>935</b>	<b>1030</b>	<b>1028</b>	<b>1045</b>	<b>1241</b>	<b>1305</b>	<b>1307</b>	<b>1274</b>	<b>1269</b>	<b>1269</b>	<b>1270</b>	<b>1165</b>	<b>1248</b>	<b>1170</b>	<b>1085</b>	<b>1042</b>	<b>1042</b>	<b>1044</b>	<b>1044</b>	<b>995</b>	<b>834</b>	<b>831</b>	<b>831</b>	<b>833</b>	<b>833</b>	<b>832</b>	<b>831</b>	<b>695</b>	<b>696</b>	<b>695</b>	<b>696</b>	<b>696</b>
PCUF	CUFG	46	49	50	50	51	50	51	50	49	49	50	51	51	51	50	51	51	50	50	49	49	48	49	48	48	48	48	48	48	48	48	48	48	49	48	49	49	50	49	50	50	50	50	51	50	49		
PCUF	CUFK	18	20	22	19	21	22	22	20	19	19	21	21	19	20	21	20	16	20	18	19	18	19	17	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
<b>Total Co-Gen</b>		<b>64</b>	<b>69</b>	<b>72</b>	<b>69</b>	<b>72</b>	<b>72</b>	<b>73</b>	<b>70</b>	<b>70</b>	<b>68</b>	<b>70</b>	<b>71</b>	<b>70</b>	<b>71</b>	<b>72</b>	<b>71</b>	<b>70</b>	<b>71</b>	<b>70</b>	<b>70</b>	<b>69</b>	<b>70</b>	<b>68</b>	<b>70</b>	<b>68</b>	<b>65</b>	<b>68</b>	<b>65</b>	<b>67</b>	<b>65</b>	<b>67</b>	<b>65</b>	<b>68</b>	<b>68</b>	<b>69</b>	<b>68</b>	<b>69</b>	<b>69</b>	<b>70</b>	<b>69</b>	<b>70</b>	<b>70</b>	<b>70</b>	<b>70</b>	<b>71</b>	<b>70</b>	<b>69</b>	
<b>Total Gen</b>		<b>11821</b>	<b>11398</b>	<b>11124</b>	<b>10835</b>	<b>10749</b>	<b>10701</b>	<b>10399</b>	<b>10366</b>	<b>10339</b>	<b>10334</b>	<b>10373</b>	<b>10216</b>	<b>10346</b>	<b>10344</b>	<b>10373</b>	<b>10252</b>	<b>10711</b>	<b>11549</b>	<b>12015</b>	<b>12507</b>	<b>12703</b>	<b>13052</b>	<b>13183</b>	<b>13339</b>	<b>13218</b>	<b>12878</b>	<b>12603</b>	<b>12558</b>	<b>12679</b>	<b>12865</b>	<b>12974</b>	<b>12970</b>	<b>13070</b>	<b>13080</b>	<b>12735</b>	<b>12380</b>	<b>12233</b>	<b>12064</b>	<b>12134</b>	<b>12277</b>	<b>12328</b>	<b>12525</b>	<b>12579</b>	<b>12568</b>	<b>12301</b>	<b>12083</b>	<b>12001</b>	<b>11671</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	
TIE-HVDC		-31	-28	-30	-29	-29	-30	-29	-29	-29	-29	-29	-29	-28	-28	-28	-31	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29
TIE-PLTG		36	-6	34	49	-33	-11	-56	48	37	33	-43	30	-56	5	-54	-1	34	111	39	74	-22	-28	-44	7	58	33	-28	-12	0	-15	-54	33	26	34	69	22	-6	48	36	-64	26	24	-75	58	92	96	66	29
<b>Interconnection</b>		<b>5</b>	<b>-34</b>	<b>4</b>	<b>20</b>	<b>-62</b>	<b>-41</b>	<b>-86</b>	<b>19</b>	<b>8</b>	<b>4</b>	<b>-72</b>	<b>1</b>	<b>-85</b>	<b>-23</b>	<b>-82</b>	<b>-29</b>	<b>3</b>	<b>82</b>	<b>10</b>	<b>43</b>	<b>-50</b>	<b>-56</b>	<b>-72</b>	<b>-22</b>	<b>29</b>	<b>4</b>	<b>-57</b>	<b>-41</b>	<b>-29</b>	<b>-44</b>	<b>-83</b>	<b>4</b>	<b>-3</b>	<b>4</b>	<b>39</b>	<b>-8</b>	<b>-35</b>	<b>19</b>	<b>7</b>	<b>-93</b>	<b>-3</b>	<b>-6</b>	<b>-105</b>	<b>29</b>	<b>63</b>	<b>67</b>	<b>37</b>	<b>0</b>
<b>System Total</b>		<b>11816</b>	<b>11432</b>	<b>11120</b>	<b>10815</b>	<b>10811</b>	<b>10742</b>	<b>10485</b>	<b>10347</b>	<b>10331</b>	<b>10330</b>	<b>10445</b>	<b>10215</b>	<b>10431</b>	<b>10367</b>	<b>10455</b>	<b>10281</b>	<b>10708</b>	<b>11467</b>	<b>12005</b>	<b>12464</b>	<b>12753</b>	<b>13108</b>	<b>13255</b>	<b>13361</b>	<b>13189</b>	<b>12874</b>	<b>12660</b>	<b>12599</b>	<b>12708</b>	<b>12909</b>	<b>13057</b>	<b>12966</b>	<b>13073</b>	<b>13076</b>	<b>12696</b>	<b>12388</b>	<b>12268</b>	<b>12045</b>	<b>12127</b>	<b>12370</b>	<b>12331</b>	<b>12531</b>	<b>12684</b>	<b>12539</b>	<b>12238</b>	<b>12016</b>	<b>11964</b>	<b>11671</b>
SRev	ST-Coal	34	111	152	161	222	141	230	229	232	227	228	223	232	223	219	225	217	100	27	24	21	74	77	-21	-25	-6	-19	-20	-26	-35	-25	-23	-24	-25	-17	-28	-21	-28	-23	-29	-32	-22	-17	63	2	-42	-18	-103
SRev	ST-Oil	9	9	16	25	14	14	12	11	10	11	10	10	10	11	11	12	12	13	13	13	14	11	10	10	9	10	11	11	9	9	10	9	9	16	19	18	19	10	11	12	12	14	14	12	10	10	12	
SRev	CCGT-Gas	685	528	562	707	754	850	752	732	734	757	655	738	655	675	666	876	1180	617	691	469	606	460	306	544	508	657	1005	1039	1000	850	825	741	559	523	736	981	962	1097	1032	925	905	668	534	387	389	455	523	543
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SRev	Distillate	45	40	83	38	40	38	37	36	37	33	125	131	125	125	127	129	130	35	37	10	94	30	28	61	66	66	65	170	87	25	110	13	13	11	11	60	1	4	4	4	2	3	4	10	9	10	4	4
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		
Syncon		388	625	625	625	625	731	580	731	731	580	731	731	731	731	731	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625
Hydro		260	96	143	91	79	116	20	219	47	136	151	80	24	73	60	101	109	241	250	140	135	113	136	143	211	295	238	141	150	185	58	18	105	134	101	59	59	96	96	215	189	67	69	113	228	237	91	93
<b>S.Reserve Total</b>		<b>1421</b>	<b>1409</b>	<b>1686</b>	<b>1752</b>	<b>1839</b>	<b>1784</b>	<b>1782</b>	<b>1807</b>	<b>1791</b>	<b>1895</b>	<b>1749</b>	<b>1913</b>	<b>1777</b>	<b>1837</b>	<b>1814</b>	<b>2073</b>	<b>2273</b>	<b>1630</b>	<b>1643</b>	<b>1281</b>	<b>1494</b>	<b>1316</b>	<b>1183</b>	<b>1039</b>	<b>1158</b>	<b>1495</b>	<b>1773</b>	<b>1815</b>	<b>1696</b>	<b>1508</b>	<b>1451</b>	<b>1233</b>	<b>1221</b>	<b>1126</b>	<b>1472</b>	<b>1716</b>	<b>1644</b>	<b>1813</b>	<b>1744</b>	<b>1600</b>	<b>1550</b>	<b>1353</b>	<b>1229</b>	<b>910</b>	<b>963</b>	<b>1144</b>	<b>1255</b>	<b>1174</b>