

**Availability At Daily Maximum Demand Hour**

ST-Coal	1,890	MW
ST-Gas	80	MW
ST-Oil	80	MW
Gas	3,836	MW
Hydro	1,769	MW
Distillate	700	MW
<b>Total TNB</b>	<b>8,355</b>	<b>MW</b>
<b>Total IPP</b>	<b>10,432</b>	<b>MW</b>
<b>Total Co-Gen</b>	<b>42</b>	<b>MW</b>
<b>System Total</b>	<b>18,829</b>	<b>MW</b>

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

At Daily Maximum Demand Hour : 14:30

TNB Generation	7,051	MW
IPP Generation	8,250	MW
Total Set On Bus	16,185	MW
Maximum Demand	15,389	MW
Spinning Reserve	842	MW
Net Energy	320,821	MWH
Load Factor	86.9	%

**Maximum Demand Record**

Date :	09/05/2011	15,476.0 MW
Date :	24/04/2012	320,821.0 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	12847	12004	11693	11394	11082	10970	11187	11217	11656	13435	14353	14895	15094	14633	15133	15368	15221	14816	13795	13552	14337	14138	13619	13149

**Gas Usage**

Station	(mmscfd)
CBPS	48
GLGR	58
PAKA	148
PGGS	2
PGPS	49
SRDG	44
TJGS	119
<b>TNB Total</b>	<b>468</b>
KLPP	7
PGLA	86
PLPS	65
PTEK	17
SGB3	38
SGRI	55
SKSP	54
YPGS	35
YPKA	134
<b>IPP Total</b>	<b>491</b>
<b>Total Gas</b>	<b>959</b>
<b>Total Gas Required :</b>	<b>1,218</b>
<b>Gas Calorific Value :</b>	<b>38.500</b>

**Alternate Fuel Usage**

Station	(mmscfd)
PKLG	124
PLPS	26
SGB3	21
SGRI	19
TJGS	69
<b>Total</b>	<b>260</b>

**Generation Mix**

Type	MWh	Percentage
ST-Coal	45,948.00	14.32 %
Gas	58,022.00	18.09 %
Hydro	25,012.00	7.80 %
Distillate	9,795.00	3.05 %
<b>Total TNB</b>	<b>138,777.0</b>	<b>43.26 %</b>
ST-Coal	97,260.0	30.32 %
ST-Oil	12,189.0	3.80 %
Gas	63,793.0	19.88 %
Distillate	8,152.0	2.54 %
<b>Total IPP</b>	<b>181,394.0</b>	<b>56.54 %</b>
Co-Gen	1,358.0	0.42 %
<b>Total Co-Gen</b>	<b>1,358.0</b>	<b>0.42 %</b>
<b>Total Generation</b>	<b>321,529.0</b>	<b>100.22 %</b>
PLTG	-21.0	-0.01 %
HVDC	729.0	0.23 %
<b>Interconnection</b>	<b>708.0</b>	<b>0.22 %</b>
<b>Net Energy</b>	<b>320,821.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	482
Hydro	165
Syncon	281
Thermal	48
<b>Total</b>	<b>977</b>

**Weather Temperature**

Weather	Temperature
Morning	Cloudy 26
Afternoon	Cloudy 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																										
TMGR	HY04	77	80	65	80	77	74	77	78	42	60	40	51	69	64	56	78	61	80	76	40	80	80	77	77	79	79	73	68	79	74	54	68	68	80	61	75	36	50	48	76	63	76	59	40	50	80	37	77		
UPIA	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		
<b>Total Hydro</b>		<b>1029</b>	<b>1306</b>	<b>1122</b>	<b>1033</b>	<b>1028</b>	<b>951</b>	<b>956</b>	<b>1003</b>	<b>743</b>	<b>777</b>	<b>701</b>	<b>737</b>	<b>890</b>	<b>868</b>	<b>807</b>	<b>874</b>	<b>803</b>	<b>1265</b>	<b>1275</b>	<b>892</b>	<b>1075</b>	<b>1074</b>	<b>1147</b>	<b>1377</b>	<b>1241</b>	<b>1071</b>	<b>1033</b>	<b>1059</b>	<b>1379</b>	<b>1483</b>	<b>1365</b>	<b>1189</b>	<b>1023</b>	<b>1136</b>	<b>1105</b>	<b>1091</b>	<b>891</b>	<b>968</b>	<b>955</b>	<b>1057</b>	<b>1132</b>	<b>1169</b>	<b>1166</b>	<b>934</b>	<b>950</b>	<b>1080</b>	<b>914</b>	<b>1095</b>		
SGB3	GT33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127	127	126	126	126	126	124	124	125	125	125	125	125	125	125	126	126	126	126	126	126	126	126	127	127	126	126	107	60		
SGRI	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115	127	127	127	126	126	127	127	127	127	126	126	127	127	127	127	127	127	127	127	127	127	127	128	128	11	0	0	0		
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	145	142	143	143	142	141	142	141	140	141	140	140	140	139	139	138	139	138	140	139	140	140	139	140	139	140	140	137	136	141	
TJGS	GT2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	226	226	224	224	223	223	223	222	220	220	220	221	221	221	220	222	222	224	227	228	228	227	228	228	228	226	226	227	226			
TJGS	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	226	222	222	221	222	221	221	221	221	219	219	219	219	219	221	221	222	224	224	224	224	224	224	224	246	246	246	247	247	224	224	
TJGS	ST2C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	235	249	248	248	248	248	248	247	248	248	247	247	247	247	248	248	248	248	247	248	248	246	246	246	247	247	247	248	247			
<b>Total Distillate</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>34</b>	<b>832</b>	<b>1081</b>	<b>1091</b>	<b>1089</b>	<b>1088</b>	<b>1085</b>	<b>1086</b>	<b>1082</b>	<b>1080</b>	<b>1079</b>	<b>1078</b>	<b>1077</b>	<b>1078</b>	<b>1079</b>	<b>1081</b>	<b>1078</b>	<b>1081</b>	<b>1081</b>	<b>1087</b>	<b>1091</b>	<b>1091</b>	<b>1091</b>	<b>1090</b>	<b>1091</b>	<b>1092</b>	<b>1091</b>	<b>972</b>	<b>960</b>	<b>940</b>	<b>898</b>		
PCUF	CUFG	10	12	11	12	10	12	12	12	13	16	12	14	14	14	13	13	15	14	13	11	15	15	16	16	17	16	17	16	16	15	16	22	45	22	31	30	31	33	45	42	41	41	37	28	27	22	18	20		
PCUF	CUFK	34	33	34	34	35	37	37	35	34	35	35	37	37	37	39	39	35	35	33	30	28	3	12	22	30	29	28	28	27	29	27	28	29	30	30	30	30	30	29	29	30	31	32	30	33	33	33			
<b>Total Co-Gen</b>		<b>44</b>	<b>45</b>	<b>45</b>	<b>46</b>	<b>45</b>	<b>49</b>	<b>49</b>	<b>47</b>	<b>47</b>	<b>51</b>	<b>47</b>	<b>51</b>	<b>51</b>	<b>51</b>	<b>50</b>	<b>52</b>	<b>54</b>	<b>49</b>	<b>48</b>	<b>44</b>	<b>45</b>	<b>43</b>	<b>19</b>	<b>28</b>	<b>39</b>	<b>46</b>	<b>46</b>	<b>44</b>	<b>44</b>	<b>42</b>	<b>45</b>	<b>49</b>	<b>73</b>	<b>51</b>	<b>61</b>	<b>60</b>	<b>61</b>	<b>63</b>	<b>75</b>	<b>71</b>	<b>70</b>	<b>71</b>	<b>68</b>	<b>60</b>	<b>57</b>	<b>55</b>	<b>51</b>	<b>53</b>		
<b>Total Gen</b>		<b>12750</b>	<b>12631</b>	<b>12110</b>	<b>12022</b>	<b>11791</b>	<b>11666</b>	<b>11439</b>	<b>11429</b>	<b>11119</b>	<b>11099</b>	<b>11021</b>	<b>11071</b>	<b>11241</b>	<b>11422</b>	<b>11269</b>	<b>11309</b>	<b>11674</b>	<b>12900</b>	<b>13525</b>	<b>14162</b>	<b>14392</b>	<b>14665</b>	<b>14937</b>	<b>15199</b>	<b>15065</b>	<b>14792</b>	<b>14709</b>	<b>14759</b>	<b>15133</b>	<b>15343</b>	<b>15395</b>	<b>15313</b>	<b>15224</b>	<b>15075</b>	<b>14851</b>	<b>14327</b>	<b>13962</b>	<b>13577</b>	<b>13607</b>	<b>14076</b>	<b>14347</b>	<b>14310</b>	<b>14208</b>	<b>13999</b>	<b>13662</b>	<b>13673</b>	<b>13161</b>	<b>12792</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	
TIE-HVDC		30	30	29	30	29	30	32	31	31	31	31	31	31	29	31	30	30	30	30	30	30	30	29	30	30	31	31	30	30	30	30	31	31	31	31	31	31	31	31	31	30	30	31	31	31	31	31	30	30	
TIE-PLTG		-127	-32	77	96	69	-57	13	-45	6	20	20	34	23	-50	21	-62	-13	-46	60	88	9	48	13	-10	-59	-13	45	-123	-30	-76	-3	-7	-28	-56	4	-72	136	12	25	-55	-21	-36	39	22	12	-40	-18	-37		
<b>Interconnection</b>		<b>-97</b>	<b>-2</b>	<b>106</b>	<b>126</b>	<b>98</b>	<b>-27</b>	<b>45</b>	<b>-14</b>	<b>37</b>	<b>49</b>	<b>51</b>	<b>65</b>	<b>54</b>	<b>-19</b>	<b>52</b>	<b>-33</b>	<b>18</b>	<b>-16</b>	<b>90</b>	<b>118</b>	<b>39</b>	<b>78</b>	<b>42</b>	<b>20</b>	<b>-29</b>	<b>18</b>	<b>76</b>	<b>-93</b>	<b>0</b>	<b>-46</b>	<b>27</b>	<b>23</b>	<b>3</b>	<b>-25</b>	<b>35</b>	<b>-41</b>	<b>167</b>	<b>43</b>	<b>55</b>	<b>-25</b>	<b>10</b>	<b>-5</b>	<b>70</b>	<b>53</b>	<b>43</b>	<b>-9</b>	<b>12</b>	<b>-7</b>		
<b>System Total</b>		<b>12847</b>	<b>12633</b>	<b>12004</b>	<b>11896</b>	<b>11693</b>	<b>11693</b>	<b>11394</b>	<b>11443</b>	<b>11082</b>	<b>11050</b>	<b>10970</b>	<b>11006</b>	<b>11187</b>	<b>11441</b>	<b>11217</b>	<b>11342</b>	<b>11656</b>	<b>12916</b>	<b>13435</b>	<b>14044</b>	<b>14353</b>	<b>14587</b>	<b>14895</b>	<b>15179</b>	<b>15094</b>	<b>14774</b>	<b>14633</b>	<b>14852</b>	<b>15133</b>	<b>15389</b>	<b>15368</b>	<b>15290</b>	<b>15221</b>	<b>15100</b>	<b>14816</b>	<b>14368</b>	<b>13795</b>	<b>13534</b>	<b>13552</b>	<b>14101</b>	<b>14337</b>	<b>14315</b>	<b>14138</b>	<b>13946</b>	<b>13619</b>	<b>13682</b>	<b>13149</b>	<b>12799</b>		
SRev ST-Coal		65	84	71	71	86	48	121	134	102	99	95	92	84	85	95	146	88	107	80	81	56	29	46	57	55	59	53	60	64	62	66	49	67	57	67	115	128	110	85	53	124	110	80	47	45	38	35	43		
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	0
SRev ST-Oil		1	3	8	4	7	5	2	2	2	79	79	81	81	81	81	-52	-2	-2	-3	-3	-4	-4	-3	11	30	41	43	-4	-3	-3	-19	-2	-2	-2	-2	-19	-25	-25	-44	-43	-43	-44	-4	-4	-4	-4	-4	-4		
SRev CCGT-Gas		833	831	826	590	797	889	1114	1139	1260	1244	1246	1237	1228	1024	1105	1082	745	826	941	570	642	525	416	466	465	474	448	432	396	363	387	332	241	356	309	267	318	707	907	587	321	332	329	431	554	596	917	1369		
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	194	83	45	47	45	7	6	80	134	111	198	123	145	164	159	82	97	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SRev Distillate		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	8	29	9	31	12	35	34	38	40	41	42	43	42	41	39	42	39	39	33	29	29	29	30	29	28	29	148	20	40	82			
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		302	302	302	604	454	454	453	453	453	453	453	453	453	302	453	453	0	0	453	453	453	302	151	151	604	604	604	302	151	151	302	604	453	453	453	453	453	453	453	453	302	302	302	453	453	453	302	302		
Hydro		105	128	312	99	104	131	127	80	339	305	381	345	192	214	426	208	279	295	311	241	58	59	137	208	344	61	99	73	56	103	221	246	110	148	178	192	392	165	178	76	302	265	268	199	183	53	370	189		
<b>S.Reserve Total</b>		<b>1456</b>	<b>1348</b>	<b>1519</b>	<b>1368</b>	<b>1448</b>	<b>1527</b>	<b>1817</b>	<b>1808</b>	<b>2156</b>	<b>2180</b>	<b>2254</b>	<b>2208</b>	<b>2038</b>	<b>1857</b>	<b>2009</b>	<b>1970</b>	<b>1513</b>	<b>1332</b>	<b>1532</b>	<b>1454</b>	<b>1260</b>	<b>1140</b>	<b>951</b>	<b>921</b>	<b>1066</b>	<b></b>																								

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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
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