

**Availability At Daily Maximum Demand Hour**

ST-Coal	2,070 MW
ST-Gas	0 MW
ST-Oil	70 MW
Gas	3,243 MW
Hydro	1,827 MW
Distillate	300 MW
<b>Total TNB</b>	<b>7,510 MW</b>
<b>Total IPP</b>	<b>11,343 MW</b>
<b>Total Co-Gen</b>	<b>82 MW</b>
<b>System Total</b>	<b>18,935 MW</b>

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

At Daily Maximum Demand Hour : 14:30	
TNB Generation	5,797 MW
IPP Generation	9,937 MW
Total Set On Bus	16,741 MW
Maximum Demand	15,902 MW
Spinning Reserve	925 MW
Net Energy	325,789 MWH
Load Factor	85.4 %

**Maximum Demand Record**

Date :	16/04/2013	16,356.0 MW
Date :	16/04/2013	338,800.0 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	12881	12287	11898	11536	11205	11161	11377	11327	11726	13578	14629	15293	15429	15181	15580	15703	15539	15136	14054	13753	14565	14518	14039	13581

**Gas Usage**

Station	(mmscfd)
CBPS	54
GLGR	31
PAKA	108
PGPS	33
SRDG	30
TJGS	101
<b>TNB Total</b>	<b>357</b>
KLPP	85
MPSS	55
PDPS	14
PGLA	74
PKLG	14
PLPS	90
PTEK	3
SGB3	33
SGRI	170
SKSP	53
YPGS	69
YPKA	70
<b>IPP Total</b>	<b>729</b>
<b>Total Gas</b>	<b>1,086</b>
<b>Total Gas Required :</b>	<b>1,262</b>
<b>Gas Calorific Value :</b>	<b>38.500</b>

**Alternate Fuel Usage**

Station	(mmscfd)
KLPP	11
PGLA	16
PGPS	27
PKLG	112
SGRI	10
<b>Total</b>	<b>176</b>

**Generation Mix**

Type	MWh	Percentage
ST-Coal	49,676.00	15.25 %
ST-Oil	1,325.00	0.41 %
Gas	44,276.00	13.59 %
Hydro	15,975.00	4.90 %
Distillate	1,575.00	0.48 %
<b>Total TNB</b>	<b>112,827.0</b>	<b>34.63 %</b>
ST-Coal	97,471.0	29.92 %
ST-Oil	10,922.0	3.35 %
Gas	93,138.0	28.59 %
Distillate	4,737.0	1.45 %
<b>Total IPP</b>	<b>206,268.0</b>	<b>63.31 %</b>
Co-Gen	2,166.0	0.66 %
<b>Total Co-Gen</b>	<b>2,166.0</b>	<b>0.66 %</b>
<b>Total Generation</b>	<b>321,261.0</b>	<b>98.61 %</b>
PLTG	-3,833.0	-1.18 %
HVDC	-695.0	-0.21 %
<b>Interconnection</b>	<b>-4,528.0</b>	<b>-1.39 %</b>
<b>Net Energy</b>	<b>325,789.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	431
Hydro	86
Syncon	463
Thermal	18
<b>Total</b>	<b>998</b>

**Weather Temperature**

Weather	Temperature
Morning	Sunny 27
Afternoon	Hot 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
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
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	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	0
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	48	49	47	52	53	51	54	55	51	47	54	50	62	55	55	56	57	55	58	52	59	59	64	85
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
UPLA	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
UPLA	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
<b>Total Hydro</b>		<b>595</b>	<b>599</b>	<b>595</b>	<b>611</b>	<b>645</b>	<b>500</b>	<b>448</b>	<b>449</b>	<b>444</b>	<b>390</b>	<b>226</b>	<b>222</b>	<b>242</b>	<b>217</b>	<b>222</b>	<b>232</b>	<b>236</b>	<b>348</b>	<b>539</b>	<b>520</b>	<b>835</b>	<b>820</b>	<b>984</b>	
KLPP	GT15	108	63	62	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGLA	GT12	226	210	165	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGPS	GT3A	89	89	88	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGPS	GT3B	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	ST3C	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	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	126	116	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Distillate</b>		<b>549</b>	<b>478</b>	<b>427</b>	<b>169</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>0</b>	<b>0</b>	
PCUF	CUFG	32	32	32	35	33	34	38	41	53	55	52	55	54	55	51	53	55	54	56	52	51	54	51	
PCUF	CUFK	35	35	36	35	34	36	37	35	35	35	35	35	34	35	36	34	34	34	32	31	32	31	30	29
<b>Total Co-Gen</b>		<b>67</b>	<b>67</b>	<b>68</b>	<b>70</b>	<b>67</b>	<b>70</b>	<b>75</b>	<b>73</b>	<b>76</b>	<b>88</b>	<b>90</b>	<b>87</b>	<b>90</b>	<b>88</b>	<b>90</b>	<b>87</b>	<b>87</b>	<b>89</b>	<b>88</b>	<b>88</b>	<b>83</b>	<b>83</b>	<b>85</b>	
<b>Total Gen</b>		<b>12718</b>	<b>12332</b>	<b>12127</b>	<b>11649</b>	<b>11706</b>	<b>11331</b>	<b>11246</b>	<b>11129</b>	<b>11089</b>	<b>11030</b>	<b>10944</b>	<b>10873</b>	<b>11049</b>	<b>11299</b>	<b>11158</b>	<b>11263</b>	<b>11612</b>	<b>12595</b>	<b>13365</b>	<b>13926</b>	<b>14399</b>	<b>14770</b>	<b>15087</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
TIE-HVDC		-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		-134	-143	-131	-185	-164	-200	-261	-198	-87	-117	-188	-93	-299	-39	-140	-96	-85	-141	-183	-169	-201	-151	-178	
<b>Interconnection</b>		<b>-163</b>	<b>-177</b>	<b>-160</b>	<b>-214</b>	<b>-192</b>	<b>-228</b>	<b>-290</b>	<b>-227</b>	<b>-116</b>	<b>-146</b>	<b>-217</b>	<b>-122</b>	<b>-328</b>	<b>-68</b>	<b>-169</b>	<b>-125</b>	<b>-114</b>	<b>-170</b>	<b>-213</b>	<b>-199</b>	<b>-230</b>	<b>-180</b>	<b>-206</b>	
<b>System Total</b>		<b>12881</b>	<b>12509</b>	<b>12287</b>	<b>11863</b>	<b>11898</b>	<b>11559</b>	<b>11536</b>	<b>11205</b>	<b>11176</b>	<b>11161</b>	<b>10995</b>	<b>11377</b>	<b>11367</b>	<b>11327</b>	<b>11388</b>	<b>11726</b>	<b>12765</b>	<b>13578</b>	<b>14125</b>	<b>14629</b>	<b>14950</b>	<b>15293</b>	<b>15509</b>	
SRev ST-Coal		31	16	6	15	19	49	14	19	16	26	16	27	18	15	10	26	23	20	16	13	1	2	-1	
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
SRev ST-Oil		3	2	4	4	-16	33	120	142	143	143	144	144	143	143	53	23	8	7	6	8	13	15	14	14
SRev CCGT-Gas		919	1254	1413	1782	1713	1867	1794	1883	1921	1928	1861	1914	1772	1499	1650	1542	2105	1419	1144	557	542	462	416	
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 Distillate		61	132	183	301	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		625	625	625	625	474	625	726	726	575	726	726	726	726	726	726	726	726	726	625	625	474	474	474	474
Hydro		101	97	101	85	202	196	147	146	302	205	69	224	53	78	73	63	59	147	57	76	87	102	173	
<b>S.Reserve Total</b>		<b>1740</b>	<b>2126</b>	<b>2332</b>	<b>2812</b>	<b>2392</b>	<b>2770</b>	<b>2801</b>	<b>2916</b>	<b>2957</b>	<b>3028</b>	<b>2816</b>	<b>2884</b>	<b>2713</b>	<b>2461</b>	<b>2602</b>	<b>2410</b>	<b>2936</b>	<b>2320</b>	<b>1849</b>	<b>1288</b>	<b>1215</b>	<b>1079</b>	<b>1119</b>	