

**Availability At Daily Maximum Demand Hour**

|                     |                  |
|---------------------|------------------|
| ST-Coal             | 2,070 MW         |
| ST-Gas              | 70 MW            |
| ST-Oil              | 0 MW             |
| Gas                 | 3,470 MW         |
| Hydro               | 1,861 MW         |
| Distillate          | 0 MW             |
| <b>Total TNB</b>    | <b>7,471 MW</b>  |
| <b>Total IPP</b>    | <b>8,594 MW</b>  |
| <b>Total Co-Gen</b> | <b>89 MW</b>     |
| <b>System Total</b> | <b>16,695 MW</b> |

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

At Daily Maximum Demand Hour : 20:30

|                  |             |
|------------------|-------------|
| TNB Generation   | 5,895 MW    |
| IPP Generation   | 6,777 MW    |
| Total Set On Bus | 13,713 MW   |
| Maximum Demand   | 12,735 MW   |
| Spinning Reserve | 952 MW      |
| Net Energy       | 266,485 MWH |
| Load Factor      | 87.2 %      |

**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 | 11675 | 11152 | 10814 | 10452 | 10091 | 10036 | 9962 | 9837 | 9582 | 10060 | 10796 | 11258 | 11216 | 11246 | 11358 | 11470 | 11453 | 11312 | 11113 | 11886 | 12693 | 12543 | 12254 | 11989 |

**Gas Usage**

| Station          | (mmscfd)     |
|------------------|--------------|
| CBPS             | 36           |
| GLGR             | 65           |
| PAKA             | 147          |
| PGPS             | 32           |
| SRDG             | 7            |
| TJGS             | 111          |
| <b>TNB Total</b> | <b>398</b>   |
| KLPP             | 75           |
| MPSS             | 41           |
| PGLA             | 116          |
| PLPS             | 64           |
| SGRI             | 183          |
| SKSP             | 57           |
| YPGS             | 55           |
| YPKA             | 56           |
| <b>IPP Total</b> | <b>648</b>   |
| <b>Total Gas</b> | <b>1,046</b> |

Total Gas Required : 1,046

Gas Calorific Value : 38,500

**Generation Mix**

| Type                    | MWh              | Percentage      |
|-------------------------|------------------|-----------------|
| ST-Coal                 | 47,150.00        | 17.70 %         |
| Gas                     | 50,554.00        | 18.97 %         |
| Hydro                   | 13,546.00        | 5.08 %          |
| <b>Total TNB</b>        | <b>111,250.0</b> | <b>41.76 %</b>  |
| ST-Coal                 | 67,896.0         | 25.48 %         |
| Gas                     | 85,568.0         | 32.12 %         |
| <b>Total IPP</b>        | <b>153,464.0</b> | <b>57.60 %</b>  |
| Co-Gen                  | 2,124.0          | 0.80 %          |
| <b>Total Co-Gen</b>     | <b>2,124.0</b>   | <b>0.80 %</b>   |
| <b>Total Generation</b> | <b>266,838.0</b> | <b>100.15 %</b> |
| PLTG                    | -315.0           | -0.12 %         |
| HVDC                    | 722.0            | 0.27 %          |
| <b>Interconnection</b>  | <b>407.0</b>     | <b>0.15 %</b>   |
| <b>Net Energy</b>       | <b>266,431.0</b> | <b>100.00 %</b> |

**Average SR During Peak Hour**

| Type         | MW         |
|--------------|------------|
| GT           | 260        |
| Hydro        | 150        |
| Syncon       | 372        |
| Thermal      | 57         |
| <b>Total</b> | <b>838</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  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |     |    |    |
|------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|----|----|
| <b>Total Gen</b>       |      | 11708 | 11155 | 11112 | 10922 | 10820 | 10766 | 10393 | 10150 | 10096 | 10145 | 10072 | 10091 | 10024 | 10060 | 9797 | 9562 | 9577 | 9960 | 10080 | 10376 | 10861 | 11035 | 11341 | 11324 | 11279 | 11325 | 11270 | 11376 | 11411 | 11443 | 11480 | 11522 | 11457 | 11413 | 11295 | 11259 | 11158 | 11208 | 11829 | 12629 | 12739 | 12761 | 12574 | 12547 | 12276 | 12304 | 12003 | 11781 |     |     |    |    |
| 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   | 0   | 0  | 0  |
| TIE-HVDC               |      | 29    | 29    | 30    | 31    | 31    | 31    | 31    | 31    | 30    | 31    | 30    | 30    | 29    | 29    | 29   | 29   | 32   | 31   | 29    | 29    | 29    | 29    | 30    | 32    | 29    | 29    | 30    | 31    | 29    | 31    | 29    | 31    | 30    | 30    | 30    | 31    | 30    | 30    | 31    | 31    | 31    | 29    | 31    | 31    | 29    | 29    | 31    | 31    | 29  | 29  | 31 | 31 |
| TIE-PLTG               |      | 4     | -95   | -70   | 66    | -25   | 17    | -90   | -35   | -25   | -28   | 6     | -42   | 33    | -34   | -69  | 0    | -37  | -7   | -9    | -71   | 36    | -8    | 53    | -43   | 34    | -53   | -6    | -36   | 24    | 41    | -19   | 2     | -26   | 3     | -47   | 26    | 15    | -67   | -88   | 8     | 15    | -3    | 0     | 65    | -7    | -14   | -17   | -7    |     |     |    |    |
| <b>Interconnection</b> |      | 33    | -66   | -40   | 97    | 6     | 48    | -59   | -4    | 5     | 3     | 36    | -12   | 62    | -5    | -40  | 29   | -5   | 24   | 20    | -42   | 65    | 21    | 83    | -11   | 63    | -24   | 24    | -5    | 53    | 72    | 10    | 33    | 4     | 33    | -17   | 57    | 45    | -37   | -57   | 39    | 46    | 26    | 31    | 96    | 22    | 15    | 14    | 24    |     |     |    |    |
| <b>System Total</b>    |      | 11675 | 11221 | 11152 | 10825 | 10814 | 10658 | 10452 | 10154 | 10091 | 10142 | 10036 | 10103 | 9962  | 10065 | 9837 | 9533 | 9582 | 9936 | 10060 | 10418 | 10796 | 11014 | 11258 | 11335 | 11216 | 11349 | 11246 | 11381 | 11358 | 11371 | 11470 | 11489 | 11453 | 11380 | 11312 | 11202 | 11113 | 11245 | 11886 | 12690 | 12693 | 12735 | 12543 | 12451 | 12254 | 12289 | 11989 | 11757 |     |     |    |    |
| SRev ST-Coal           |      | 82    | 56    | 14    | 128   | 125   | 139   | 170   | 333   | 279   | 280   | 260   | 359   | 344   | 314   | 329  | 323  | 382  | 312  | 320   | 239   | 64    | 73    | 75    | 65    | 55    | 59    | 69    | 61    | 65    | 69    | 66    | 91    | 76    | 85    | 67    | 67    | 72    | 65    | 73    | 30    | 79    | 77    | 87    | 83    | 66    | 76    | 99    | 65    |     |     |    |    |
| 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   | 0  | 0  |
| SRev CCGT-Gas          |      | 216   | 735   | 310   | 400   | 236   | 309   | 608   | 593   | 620   | 615   | 593   | 536   | 561   | 557   | 770  | 992  | 901  | 761  | 797   | 938   | 702   | 440   | 225   | 281   | 367   | 337   | 226   | 326   | 413   | 377   | 355   | 298   | 322   | 305   | 345   | 279   | 563   | 822   | 562   | 371   | 268   | 230   | 395   | 261   | 418   | 148   | 383   | 441   |     |     |    |    |
| 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     | 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     | 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                 |      | 726   | 726   | 726   | 726   | 726   | 726   | 726   | 726   | 726   | 726   | 726   | 726   | 726   | 575   | 726  | 726  | 575  | 726  | 625   | 625   | 625   | 474   | 474   | 323   | 474   | 474   | 474   | 474   | 474   | 474   | 474   | 474   | 474   | 474   | 474   | 474   | 474   | 474   | 474   | 474   | 474   | 323   | 474   | 474   | 474   | 474   | 474   | 474   | 625 | 625 |    |    |
| Hydro                  |      | 112   | 132   | 89    | 118   | 110   | 131   | 90    | 87    | 121   | 75    | 98    | 37    | 100   | 48    | 229  | 146  | 110  | 251  | 210   | 93    | 75    | 58    | 203   | 175   | 326   | 175   | 189   | 151   | 162   | 162   | 149   | 160   | 217   | 281   | 301   | 171   | 194   | 211   | 226   | 201   | 138   | 167   | 197   | 185   | 244   | 214   | 160   | 156   |     |     |    |    |
| <b>S.Reserve Total</b> |      | 1136  | 1649  | 1139  | 1372  | 1202  | 1310  | 1599  | 1744  | 1751  | 1701  | 1682  | 1663  | 1736  | 1650  | 1908 | 2192 | 2119 | 1899 | 2053  | 1895  | 1466  | 1196  | 977   | 995   | 1071  | 1045  | 958   | 1012  | 1114  | 1082  | 1044  | 1023  | 1089  | 1145  | 1187  | 991   | 1303  | 1572  | 1335  | 1036  | 964   | 952   | 1157  | 1006  | 1278  | 912   | 1267  | 1267  |     |     |    |    |