

**Availability At Daily Maximum Demand Hour**

|                     |                  |
|---------------------|------------------|
| ST-Coal             | 1,380 MW         |
| ST-Gas              | 0 MW             |
| ST-Oil              | 145 MW           |
| Gas                 | 4,246 MW         |
| Hydro               | 1,680 MW         |
| Distillate          | 0 MW             |
| <b>Total TNB</b>    | <b>7,451 MW</b>  |
| <b>Total IPP</b>    | <b>11,551 MW</b> |
| <b>Total Co-Gen</b> | <b>84 MW</b>     |
| <b>System Total</b> | <b>19,086 MW</b> |

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

|                                      |             |
|--------------------------------------|-------------|
| At Daily Maximum Demand Hour : 14:30 |             |
| TNB Generation                       | 5,086 MW    |
| IPP Generation                       | 9,788 MW    |
| Total Set On Bus                     | 15,845 MW   |
| Maximum Demand                       | 14,913 MW   |
| Spinning Reserve                     | 887 MW      |
| Net Energy                           | 311,194 MWH |
| Load Factor                          | 86.9 %      |

**Maximum Demand Record**

|        |            |               |
|--------|------------|---------------|
| Date : | 20/06/2012 | 15,826.0 MW   |
| Date : | 20/06/2012 | 328,716.0 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 | 12439 | 11527 | 11154 | 10925 | 10704 | 10599 | 10752 | 10861 | 11418 | 12943 | 13887 | 14625 | 14672 | 14298 | 14721 | 14828 | 14884 | 14515 | 13451 | 13408 | 14279 | 13931 | 12779 | 13031 |

**Gas Usage**

| Station          | (mmscfd)     |
|------------------|--------------|
| CBPS             | 48           |
| GLGR             | 58           |
| PAKA             | 45           |
| PGPS             | 41           |
| SRDG             | 7            |
| TJGS             | 207          |
| <b>TNB Total</b> | <b>406</b>   |
| KLPP             | 101          |
| MPSS             | 55           |
| PGLA             | 96           |
| PLPS             | 8            |
| SGB3             | 84           |
| SGRI             | 117          |
| SKSP             | 54           |
| YPGS             | 34           |
| YPKA             | 129          |
| <b>IPP Total</b> | <b>677</b>   |
| <b>Total Gas</b> | <b>1,083</b> |

**Alternate Fuel Usage**

| Station      | (mmscfd)   |
|--------------|------------|
| PGPS         | 13         |
| PKLG         | 128        |
| <b>Total</b> | <b>141</b> |

**Generation Mix**

| Type                    | MWh              | Percentage      |
|-------------------------|------------------|-----------------|
| ST-Coal                 | 31,187.00        | 10.02 %         |
| ST-Oil                  | 1,170.00         | 0.38 %          |
| Gas                     | 54,000.00        | 17.35 %         |
| Hydro                   | 11,375.00        | 3.66 %          |
| <b>Total TNB</b>        | <b>97,732.0</b>  | <b>31.41 %</b>  |
| ST-Coal                 | 110,579.0        | 35.53 %         |
| ST-Oil                  | 12,577.0         | 4.04 %          |
| Gas                     | 88,901.0         | 28.57 %         |
| <b>Total IPP</b>        | <b>212,057.0</b> | <b>68.14 %</b>  |
| Co-Gen                  | 2,287.0          | 0.73 %          |
| <b>Total Co-Gen</b>     | <b>2,287.0</b>   | <b>0.73 %</b>   |
| <b>Total Generation</b> | <b>312,076.0</b> | <b>100.28 %</b> |
| PLTG                    | 152.0            | 0.05 %          |
| HVDC                    | 730.0            | 0.23 %          |
| <b>Interconnection</b>  | <b>882.0</b>     | <b>0.28 %</b>   |
| <b>Net Energy</b>       | <b>311,194.0</b> | <b>100.00 %</b> |

**Average SR During Peak Hour**

| Type         | MW         |
|--------------|------------|
| GT           | 300        |
| Hydro        | 139        |
| Syncon       | 478        |
| Thermal      | 18         |
| <b>Total</b> | <b>935</b> |

**Weather Temperature**

| Weather   | Temperature |
|-----------|-------------|
| Morning   | Sunny 28    |
| 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 Co-Gen</b>    | 89    | 89    | 91    | 89    | 94    | 90    | 90    | 92    | 87    | 91    | 90    | 90    | 91    | 89    | 88    | 91    | 93    | 92    | 89    | 92    | 91    | 91    | 90    | 89    | 85    | 85    | 83    | 84    | 86    | 84    | 82    | 84    | 82    | 82    | 84    | 83    | 85    | 85    | 83    | 86    | 87    | 86    | 85    | 88    | 87    | 88    | 87    | 88    |    |    |
| <b>Total Gen</b>       | 12480 | 12086 | 11504 | 11228 | 11136 | 11059 | 11061 | 10785 | 10722 | 10602 | 10571 | 10518 | 10719 | 11012 | 11060 | 10881 | 11460 | 12433 | 12945 | 13520 | 13883 | 14250 | 14550 | 14675 | 14740 | 14466 | 14345 | 14571 | 14772 | 14958 | 14824 | 14849 | 14913 | 14755 | 14537 | 13894 | 13476 | 13250 | 13413 | 14223 | 14309 | 14120 | 14005 | 13852 | 12861 | 13503 | 13099 | 12713 |    |    |
| 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               | 31    | 31    | 31    | 30    | 30    | 30    | 30    | 30    | 30    | 31    | 31    | 31    | 30    | 30    | 30    | 31    | 31    | 31    | 31    | 29    | 29    | 30    | 30    | 30    | 30    | 30    | 30    | 31    | 31    | 31    | 31    | 30    | 30    | 30    | 31    | 31    | 31    | 31    | 30    | 30    | 30    | 30    | 31    | 31    | 30    | 30    | 31    | 31    | 31 |    |
| TIE-PLTG               | 10    | 78    | -54   | -31   | -48   | 62    | 106   | -28   | -12   | 67    | -59   | -84   | -63   | -69   | 169   | -61   | 11    | -12   | -29   | -17   | -33   | -160  | -105  | -110  | 38    | 16    | 17    | 19    | 20    | 14    | -35   | -35   | -1    | 16    | -9    | 37    | -6    | 61    | -25   | 29    | 0     | 23    | 43    | 52    | 52    | 7     | 37    | 42    |    |    |
| <b>Interconnection</b> | 41    | 109   | -23   | -1    | -18   | 92    | 136   | 2     | 18    | 98    | -28   | -53   | -33   | -39   | 199   | -30   | 42    | 19    | 2     | 12    | -4    | -130  | -75   | -80   | 68    | 46    | 47    | 50    | 51    | 45    | -4    | -5    | 29    | 47    | 22    | 68    | 25    | 91    | 5     | 59    | 30    | 54    | 74    | 82    | 82    | 38    | 68    | 73    |    |    |
| <b>System Total</b>    | 12439 | 11977 | 11527 | 11229 | 11154 | 10967 | 10925 | 10783 | 10704 | 10504 | 10599 | 10571 | 10752 | 11051 | 10861 | 10911 | 11418 | 12414 | 12943 | 13508 | 13887 | 14380 | 14625 | 14755 | 14672 | 14420 | 14298 | 14521 | 14721 | 14913 | 14828 | 14854 | 14884 | 14708 | 14515 | 13826 | 13451 | 13159 | 13408 | 14164 | 14279 | 14066 | 13931 | 13770 | 12779 | 13465 | 13031 | 12640 |    |    |
| SRev ST-Coal           | -34   | 22    | -11   | -6    | -4    | 10    | -29   | 108   | 13    | 34    | 167   | 178   | 124   | -91   | 27    | 6     | -6    | -9    | -6    | 16    | 3     | -27   | 8     | 3     | 24    | 20    | 13    | 14    | 3     | 59    | 53    | 2     | 31    | 21    | -11   | 17    | -10   | -4    | -51   | -4    | -9    | -4    | 8     | 12    | -1    | 2     | -21   | -17   |    |    |
| SRev ST-Oil            | 13    | 12    | 13    | 12    | 13    | 14    | 14    | 45    | 70    | 68    | 69    | 69    | 69    | 69    | 34    | 69    | 69    | 11    | 11    | 12    | 12    | 11    | 11    | 11    | 11    | 11    | 11    | 11    | 11    | 11    | 10    | 11    | 11    | 11    | 11    | 11    | 11    | 11    | 11    | 11    | 11    | 12    | 13    | 13    | 12    | 13    | 12    | 13    | 12 | 12 |
| SRev CCGT-Gas          | 462   | 283   | 737   | 1048  | 1138  | 1150  | 1182  | 1466  | 1492  | 1544  | 1445  | 1457  | 1362  | 1376  | 1362  | 1493  | 1003  | 760   | 671   | 499   | 378   | 274   | 284   | 257   | 274   | 247   | 376   | 148   | 224   | 207   | 234   | 206   | 224   | 325   | 361   | 408   | 486   | 706   | 663   | 257   | 259   | 405   | 389   | 314   | 480   | 366   | 288   | 297   |    |    |
| 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     | 29    | 37    | 70    | 70    | 10    | 68    | 51    | 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  |
| Syncon                 | 726   | 575   | 726   | 726   | 726   | 726   | 726   | 726   | 726   | 726   | 575   | 726   | 726   | 575   | 726   | 726   | 726   | 726   | 575   | 726   | 625   | 625   | 474   | 323   | 625   | 625   | 625   | 625   | 323   | 474   | 474   | 474   | 474   | 625   | 726   | 726   | 726   | 726   | 625   | 625   | 625   | 625   | 474   | 172   | 625   | 625   |       |       |    |    |
| Hydro                  | 117   | 266   | 137   | 96    | 100   | 146   | 151   | 93    | 131   | 164   | 203   | 80    | 90    | 180   | 144   | 114   | 79    | 146   | 127   | 260   | 119   | 88    | 87    | 214   | 258   | 176   | 173   | 175   | 107   | 250   | 174   | 177   | 164   | 183   | 90    | 167   | 110   | 110   | 65    | 162   | 79    | 138   | 82    | 98    | 367   | 329   | 250   | 239   |    |    |
| <b>S.Reserve Total</b> | 1384  | 1258  | 1702  | 1976  | 2073  | 2146  | 2144  | 2538  | 2532  | 2636  | 2559  | 2610  | 2471  | 2209  | 2393  | 2508  | 1871  | 1634  | 1529  | 1362  | 1238  | 971   | 1015  | 959   | 890   | 1079  | 1198  | 973   | 999   | 887   | 1015  | 940   | 914   | 1082  | 1127  | 1329  | 1323  | 1549  | 1414  | 1052  | 967   | 1177  | 1116  | 1062  | 1332  | 931   | 1154  | 1156  |    |    |