

**Availability At Daily Maximum Demand Hour**

|                     |                  |
|---------------------|------------------|
| ST-Coal             | 2,070 MW         |
| ST-Gas              | 0 MW             |
| ST-Oil              | 140 MW           |
| Gas                 | 3,558 MW         |
| Hydro               | 1,813 MW         |
| Distillate          | 0 MW             |
| <b>Total TNB</b>    | <b>7,581 MW</b>  |
| <b>Total IPP</b>    | <b>9,818 MW</b>  |
| <b>Total Co-Gen</b> | <b>66 MW</b>     |
| <b>System Total</b> | <b>17,465 MW</b> |

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

|                                      |             |
|--------------------------------------|-------------|
| At Daily Maximum Demand Hour : 11:30 |             |
| TNB Generation                       | 5,125 MW    |
| IPP Generation                       | 8,449 MW    |
| Total Set On Bus                     | 14,451 MW   |
| Maximum Demand                       | 13,736 MW   |
| Spinning Reserve                     | 811 MW      |
| Net Energy                           | 302,067 MWH |
| Load Factor                          | 91.6 %      |

**Maximum Demand Record**

|        |            |              |
|--------|------------|--------------|
| Date : | 19/03/2013 | 16,133.0MW   |
| Date : | 20/03/2013 | 333,019.0MWH |

**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 | 13133 | 12622 | 12292 | 11954 | 11615 | 11437 | 11303 | 11298 | 10955 | 12028 | 12842 | 13481 | 13546 | 13198 | 13256 | 13265 | 13324 | 12897 | 12616 | 12673 | 13571 | 13386 | 13096 | 12717 |

**Gas Usage**

| Station                      | (mmscfd)      |
|------------------------------|---------------|
| CBPS                         | 45            |
| GLGR                         | 56            |
| PAKA                         | 118           |
| PGPS                         | 37            |
| SRDG                         | 1             |
| TJGS                         | 106           |
| <b>TNB Total</b>             | <b>363</b>    |
| KLPP                         | 108           |
| MPSS                         | 53            |
| PGLA                         | 111           |
| PKLG                         | 29            |
| PLPS                         | 114           |
| SGB3                         | 10            |
| SGRI                         | 211           |
| SKSP                         | 35            |
| YPGS                         | 68            |
| YPKA                         | 68            |
| <b>IPP Total</b>             | <b>808</b>    |
| <b>Total Gas</b>             | <b>1,171</b>  |
| <b>Total Gas Required :</b>  | <b>1,200</b>  |
| <b>Gas Calorific Value :</b> | <b>38,500</b> |

**Alternate Fuel Usage**

| Station      | (mmscfd)  |
|--------------|-----------|
| PKLG         | 29        |
| <b>Total</b> | <b>29</b> |

**Generation Mix**

| Type                    | MWh              | Percentage      |
|-------------------------|------------------|-----------------|
| ST-Coal                 | 49,457.00        | 16.37 %         |
| Gas                     | 45,746.00        | 15.14 %         |
| Hydro                   | 13,979.00        | 4.63 %          |
| <b>Total TNB</b>        | <b>109,182.0</b> | <b>36.14 %</b>  |
| ST-Coal                 | 84,891.0         | 28.10 %         |
| ST-Gas                  | 2,826.0          | 0.94 %          |
| ST-Oil                  | 2,822.0          | 0.93 %          |
| Gas                     | 101,366.0        | 33.56 %         |
| <b>Total IPP</b>        | <b>191,905.0</b> | <b>63.53 %</b>  |
| Co-Gen                  | 1,809.0          | 0.60 %          |
| <b>Total Co-Gen</b>     | <b>1,809.0</b>   | <b>0.60 %</b>   |
| <b>Total Generation</b> | <b>302,896.0</b> | <b>100.27 %</b> |
| PLTG                    | 101.0            | 0.03 %          |
| HVDC                    | 728.0            | 0.24 %          |
| <b>Interconnection</b>  | <b>829.0</b>     | <b>0.27 %</b>   |
| <b>Net Energy</b>       | <b>302,067.0</b> | <b>100.00 %</b> |

**Average SR During Peak Hour**

| Type         | MW         |
|--------------|------------|
| GT           | 304        |
| Hydro        | 118        |
| Syncon       | 446        |
| Thermal      | 48         |
| <b>Total</b> | <b>916</b> |

**Weather Temperature**

| Weather   | Temperature |
|-----------|-------------|
| Morning   | Sunny 26    |
| Afternoon | Hot 35      |





| 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  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |   |
|-----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|---|
| PCUF            | CUFK | 35    | 37    | 37    | 37    | 36    | 38    | 37    | 36    | 35    | 37    | 36    | 37    | 36    | 38    | 36    | 35    | 36    | 34    | 32    | 32    | 31    | 30    | 29    | 30    | 29    | 30    | 30    | 29    | 29    | 30    | 31    | 30    | 29    | 31    | 32    | 33    | 34    | 36    | 36    | 37    | 36    | 36    | 34    | 35    |       |       |       |       |   |   |
| Total Co-Gen    |      | 70    | 71    | 72    | 73    | 71    | 71    | 72    | 72    | 70    | 71    | 72    | 71    | 74    | 71    | 70    | 70    | 69    | 68    | 66    | 66    | 65    | 63    | 65    | 64    | 65    | 64    | 62    | 64    | 64    | 66    | 65    | 65    | 66    | 66    | 66    | 66    | 66    | 68    | 71    | 70    | 72    | 71    | 71    | 69    | 71    |       |       |       |   |   |
| Total Gen       |      | 13177 | 12943 | 12674 | 12483 | 12300 | 11915 | 11966 | 11749 | 11666 | 11490 | 11524 | 11420 | 11384 | 11412 | 11379 | 10914 | 11008 | 11588 | 12117 | 12599 | 12932 | 13178 | 13380 | 13640 | 13494 | 13325 | 13233 | 13243 | 13314 | 13395 | 13346 | 13343 | 13327 | 13206 | 13090 | 12763 | 12613 | 12565 | 12671 | 13431 | 13703 | 13588 | 13464 | 13498 | 13126 | 13029 | 12742 | 12603 |   |   |
| 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     |       |       |   |   |
| TIE-HVDC        |      | 31    | 31    | 31    | 30    | 30    | 31    | 31    | 30    | 30    | 30    | 31    | 31    | 29    | 29    | 30    | 30    | 30    | 30    | 30    | 30    | 31    | 31    | 30    | 30    | 30    | 30    | 31    | 31    | 30    | 30    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 30    | 30    | 30    | 30    | 31    | 31    | 29    |       |       |   |   |
| TIE-PLTG        |      | 13    | 41    | 21    | -25   | -22   | -53   | -19   | -10   | 21    | -36   | 57    | -84   | 50    | -3    | 52    | 136   | 23    | -35   | 59    | -59   | 60    | -86   | -132  | -126  | -82   | -31   | 5     | -4    | 28    | 29    | 51    | 12    | -28   | 55    | 163   | 11    | -34   | -53   | -33   | 28    | 101   | 109   | 48    | 132   | 0     | -29   | -6    | 11    |   |   |
| Interconnection |      | 44    | 72    | 52    | 5     | 8     | -22   | 12    | 20    | 51    | -6    | 87    | -53   | 81    | 26    | 81    | 166   | 53    | 65    | 89    | 89    | 90    | -55   | -101  | -96   | -52   | -1    | 35    | 26    | 58    | 59    | 81    | 43    | 3     | 85    | 193   | 42    | -3    | -22   | -2    | 59    | 132   | 139   | 78    | 162   | 30    | 2     | 25    | 40    |   |   |
| System Total    |      | 13133 | 12871 | 12622 | 12478 | 12292 | 11937 | 11954 | 11729 | 11615 | 11496 | 11437 | 11473 | 11303 | 11386 | 11298 | 10748 | 10955 | 11523 | 12028 | 12510 | 12842 | 13233 | 13481 | 13736 | 13546 | 13326 | 13198 | 13217 | 13256 | 13336 | 13265 | 13300 | 13324 | 13121 | 12897 | 12721 | 12616 | 12587 | 12673 | 13372 | 13571 | 13449 | 13386 | 13336 | 13096 | 13027 | 12717 | 12563 |   |   |
| SRev ST-Coal    |      | 16    | 25    | 24    | 97    | 28    | 24    | 30    | 129   | 91    | 89    | 41    | 21    | 20    | 32    | 44    | 18    | 22    | 19    | 21    | 24    | 22    | 25    | 33    | 22    | 40    | 29    | 42    | 33    | 36    | 36    | 29    | 39    | 22    | 24    | 18    | 13    | 27    | 10    | 17    | 22    | 24    | 17    | 29    | 22    | 16    | 70    | 16    | 17    |   |   |
| 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 |   |
| SRev ST-Oil     |      | 11    | 11    | 28    | 28    | 28    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 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   |      | 395   | 561   | 357   | 356   | 332   | 707   | 685   | 942   | 1021  | 1276  | 1341  | 1467  | 1490  | 1464  | 1476  | 1833  | 1890  | 1291  | 1152  | 724   | 514   | 247   | 298   | 217   | 220   | 235   | 307   | 400   | 367   | 295   | 343   | 279   | 321   | 420   | 569   | 882   | 993   | 1170  | 1058  | 298   | 241   | 367   | 482   | 288   | 295   | 269   | 611   | 413   |   |   |
| 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 |
| 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          |      | 625   | 625   | 625   | 625   | 625   | 625   | 474   | 625   | 474   | 474   | 625   | 625   | 625   | 625   | 625   | 474   | 625   | 625   | 625   | 625   | 625   | 474   | 625   | 474   | 474   | 474   | 625   | 625   | 625   | 625   | 625   | 625   | 625   | 625   | 625   | 625   | 625   | 474   | 474   | 474   | 474   | 474   | 474   | 625   | 625   | 625   | 625   |       |   |   |
| Hydro           |      | 136   | 91    | 86    | 79    | 92    | 87    | 94    | 229   | 102   | 229   | 236   | 88    | 109   | 93    | 98    | 385   | 75    | 83    | 88    | 87    | 212   | 77    | 188   | 64    | 184   | 122   | 128   | 140   | 110   | 104   | 129   | 105   | 212   | 223   | 109   | 85    | 86    | 84    | 75    | 211   | 210   | 273   | 175   | 93    | 45    | 89    | 85    | 82    |   |   |
| S.Reserve Total |      | 1183  | 1313  | 1120  | 1185  | 1105  | 1443  | 1434  | 1774  | 1839  | 2068  | 2092  | 2201  | 2244  | 2214  | 2243  | 2710  | 2612  | 2034  | 1952  | 1523  | 1292  | 1046  | 1062  | 811   | 951   | 1070  | 1160  | 1221  | 1152  | 1071  | 1140  | 1137  | 1043  | 1155  | 1353  | 1637  | 1764  | 1922  | 1808  | 1038  | 991   | 1163  | 1192  | 909   | 1013  | 1085  | 1370  | 1170  |   |   |