

**Availability At Daily Maximum Demand Hour**

|                     |                  |
|---------------------|------------------|
| ST-Coal             | 2,070 MW         |
| ST-Gas              | 0 MW             |
| ST-Oil              | 0 MW             |
| Gas                 | 4,018 MW         |
| Hydro               | 1,680 MW         |
| Distillate          | 0 MW             |
| <b>Total TNB</b>    | <b>7,768 MW</b>  |
| <b>Total IPP</b>    | <b>10,471 MW</b> |
| <b>Total Co-Gen</b> | <b>84 MW</b>     |
| <b>System Total</b> | <b>18,323 MW</b> |

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

At Daily Maximum Demand Hour : 16:00

|                  |                 |
|------------------|-----------------|
| TNB Generation   | 6,301 MW        |
| IPP Generation   | 9,656 MW        |
| Total Set On Bus | 17,289 MW       |
| Maximum Demand   | 15,995 MW       |
| Spinning Reserve | 1,248 MW        |
| Net Energy       | 324,808 MWH     |
| Load Factor      | 84.6 %          |
| Total Cost       | 57,322,806 RM   |
| Cost per Unit    | 17.98 cents/kWH |

**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 | 12130 | 11559 | 11009 | 10806 | 10578 | 10528 | 10656 | 11017 | 11654 | 13714 | 14695 | 15419 | 15552 | 15119 | 15663 | 15893 | 15995 | 15537 | 14441 | 14111 | 14968 | 14857 | 14516 | 13823 |

**Gas Usage**

| Station                      | (mmscfd)      |
|------------------------------|---------------|
| CBPS                         | 70            |
| GLGR                         | 65            |
| PAKA                         | 154           |
| PGPS                         | 42            |
| SRDG                         | 35            |
| TJGS                         | 208           |
| <b>TNB Total</b>             | <b>575</b>    |
| KLPP                         | 101           |
| MPSS                         | 40            |
| PDPS                         | 29            |
| PGLA                         | 108           |
| PKLG                         | 22            |
| PLPS                         | 97            |
| PTEK                         | 22            |
| SGB3                         | 60            |
| SGRI                         | 127           |
| SKSP                         | 53            |
| YPGS                         | 66            |
| YPKA                         | 119           |
| <b>IPP Total</b>             | <b>844</b>    |
| <b>Total Gas</b>             | <b>1,419</b>  |
| <b>Total Gas Required :</b>  | <b>1,419</b>  |
| <b>Gas Calorific Value :</b> | <b>38.500</b> |

**Generation Mix**

| Type                    | MWh              | Percentage      |
|-------------------------|------------------|-----------------|
| ST-Coal                 | 47,743.00        | 14.70 %         |
| Gas                     | 72,926.00        | 22.45 %         |
| Hydro                   | 6,561.00         | 2.02 %          |
| <b>Total TNB</b>        | <b>127,230.0</b> | <b>39.17 %</b>  |
| ST-Coal                 | 88,815.0         | 27.34 %         |
| ST-Gas                  | 2,143.0          | 0.66 %          |
| Gas                     | 105,483.0        | 32.48 %         |
| <b>Total IPP</b>        | <b>196,441.0</b> | <b>60.48 %</b>  |
| Co-Gen                  | 1,703.0          | 0.52 %          |
| <b>Total Co-Gen</b>     | <b>1,703.0</b>   | <b>0.52 %</b>   |
| <b>Total Generation</b> | <b>325,374.0</b> | <b>100.17 %</b> |
| PLTG                    | -75.0            | -0.02 %         |
| HVDC                    | 641.0            | 0.20 %          |
| Interconnection         | 566.0            | 0.17 %          |
| <b>Net Energy</b>       | <b>324,808.0</b> | <b>100.00 %</b> |

**Average SR During Peak Hour**

| Type         | MW          |
|--------------|-------------|
| GT           | 432         |
| Hydro        | 146         |
| Syncon       | 459         |
| Thermal      | 115         |
| <b>Total</b> | <b>1152</b> |

|           | Weather | Temperature |
|-----------|---------|-------------|
| Morning   | Sunny   | 28          |
| Afternoon | Hot     | 37          |





| 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  |
|-----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PGAU            | HY04 | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    |
| SIHY            | HY01 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| SIHY            | 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     |
| SIHY            | 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            | HY01 | 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            | 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            | 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 | 19    | 23    | 39    | 34    | 21    | 26    | 29    | 22    | 25    | 22    | 24    | 29    | 36    | 53    | 27    | 26    | 29    | 28    | 35    | 30    | 84    | 85    | 83    | 84    |
| 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    |
| UPIA            | HY02 | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     |
| Total Hydro     |      | 135   | 148   | 211   | 172   | 143   | 151   | 164   | 148   | 152   | 153   | 160   | 204   | 178   | 155   | 153   | 162   | 172   | 207   | 165   | 313   | 339   | 349   | 490   | 401   |
| PCUF            | CUPG | 53    | 51    | 52    | 50    | 53    | 53    | 53    | 54    | 53    | 53    | 52    | 51    | 51    | 53    | 52    | 55    | 52    | 48    | 55    | 53    | 54    | 54    | 53    | 53    |
| PCUF            | CUPK | 7     | 8     | 10    | 10    | 10    | 10    | 9     | 9     | 10    | 13    | 13    | 20    | 31    | 39    | 38    | 39    | 38    | 38    | 37    | 36    | 35    | 30    | 32    | 30    |
| Total Co-Gen    |      | 60    | 59    | 62    | 60    | 63    | 63    | 63    | 62    | 63    | 66    | 65    | 71    | 82    | 92    | 90    | 94    | 90    | 86    | 92    | 89    | 89    | 84    | 85    | 83    |
| Total Gen       |      | 12062 | 11913 | 11414 | 11360 | 11085 | 10936 | 10832 | 10711 | 10663 | 10517 | 10542 | 10562 | 10706 | 11106 | 11077 | 11037 | 11659 | 12943 | 13826 | 14291 | 14750 | 15059 | 15373 | 15630 |
| 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        |      | -30   | -30   | -29   | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 30    | 30    | 30    | 30    | 30    | 31    | 31    | 30    | 29    | 30    | 30    | 30    | 30    | 31    |
| TIE-PLTG        |      | -38   | 35    | -116  | -18   | 45    | 45    | -5    | 31    | 54    | 0     | -17   | 11    | 20    | -11   | 30    | -75   | -25   | 113   | 82    | -26   | 24    | -40   | -76   |       |
| Interconnection |      | -68   | 5     | -145  | 13    | 76    | 76    | 26    | 62    | 85    | 31    | 14    | 42    | 50    | 19    | 60    | -45   | 5     | 143   | 112   | 4     | 55    | -9    | -46   |       |
| System Total    |      | 12130 | 11908 | 11559 | 11347 | 11099 | 10860 | 10806 | 10649 | 10578 | 10486 | 10528 | 10520 | 10656 | 11087 | 11017 | 11082 | 11654 | 12800 | 13714 | 14287 | 14695 | 15068 | 15419 |       |
| SRev ST-Coal    |      | 71    | 78    | 99    | 170   | 98    | 101   | 243   | 274   | 368   | 492   | 487   | 494   | 498   | 359   | 310   | 448   | 104   | 96    | 89    | 80    | 73    | 56    | 71    |       |
| 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 CCGI-Gas   |      | 770   | 644   | 1268  | 1205  | 1531  | 1685  | 1660  | 1733  | 1692  | 1690  | 1668  | 1650  | 1572  | 1323  | 1388  | 1509  | 1433  | 931   | 450   | 593   | 330   | 312   | 287   |       |
| SRev OCGI-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 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          |      | 580   | 580   | 580   | 580   | 580   | 580   | 580   | 580   | 580   | 580   | 580   | 580   | 580   | 580   | 580   | 580   | 580   | 580   | 580   | 580   | 580   | 580   | 580   | 580   |
| Hydro           |      | 156   | 143   | 80    | 119   | 148   | 140   | 127   | 144   | 140   | 139   | 139   | 132   | 87    | 114   | 137   | 139   | 130   | 270   | 235   | 131   | 113   | 87    | 77    |       |
| S.Reserve Total |      | 1577  | 1445  | 2027  | 2074  | 2357  | 2506  | 2610  | 2731  | 2780  | 2901  | 2874  | 2856  | 2737  | 2376  | 2415  | 2676  | 2247  | 1726  | 1232  | 1561  | 1187  | 1135  | 1013  |       |