

**Availability at Daily Maximum Demand Hour**

|                     |                  |
|---------------------|------------------|
| ST-Coal             | 1,380 MW         |
| ST-Gas              | 0 MW             |
| ST-Oil              | 0 MW             |
| Gas                 | 3,598 MW         |
| Hydro               | 1,801 MW         |
| Distillate          | 0 MW             |
| <b>Total TNB</b>    | <b>6,779 MW</b>  |
| <b>Total IPP</b>    | <b>10,854 MW</b> |
| <b>Total Co-Gen</b> | <b>0 MW</b>      |
| <b>Total System</b> | <b>17,633 MW</b> |

**Generation Mix**

| Type                    | MWh            | Percentage      |
|-------------------------|----------------|-----------------|
| ST-Coal                 | 32,470         | 10.28 %         |
| Gas                     | 55,549         | 17.59 %         |
| Hydro                   | 13,772         | 4.36 %          |
| <b>Total TNB</b>        | <b>101,791</b> | <b>32.23 %</b>  |
| ST-Coal                 | 102,287        | 32.39 %         |
| ST-Gas                  | 158            | 0.05 %          |
| Gas                     | 109,015        | 34.52 %         |
| <b>Total IPP</b>        | <b>211,460</b> | <b>66.96 %</b>  |
| Co-Gen                  | 2,087          | 0.66 %          |
| <b>Total Co-Gen</b>     | <b>2,087</b>   | <b>0.66 %</b>   |
| <b>Total Generation</b> | <b>315,338</b> | <b>99.85 %</b>  |
| PLTG                    | 242            | 0.08 %          |
| HVDC                    | -702           | -0.22 %         |
| <b>Interconnection</b>  | <b>-460</b>    | <b>-0.15 %</b>  |
| <b>Net Energy</b>       | <b>315,798</b> | <b>100.00 %</b> |

**Maximum Demand Record**

|                 |             |
|-----------------|-------------|
| Date: 6/11/2014 | 16,901 MW   |
| Date: 6/24/2014 | 355,911 MWH |

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

|                               |               |
|-------------------------------|---------------|
| Daily Maximum Demand Hour at: | 15:30:00 Hour |
| Total Set On Bus              | 16,437 MW     |
| TNB Generation                | 4,894 MW      |
| IPP Generation                | 10,362 MW     |
| Spinning Reserve              | 1,100 MW      |
| Maximum Demand                | 15,336 MW     |
| Net Energy                    | 315,798 MWH   |
| Load Factor                   | 85.79 %       |

**Fuel Cost**

|               |                  |
|---------------|------------------|
| Total Cost:   | 47,752,579.30 RM |
| Cost per Unit | 15.82 cents/kWH  |

**Average Spinning Reserve During Peak Hour**

| Type         | MW           |
|--------------|--------------|
| GT           | 456          |
| Hydro        | 314          |
| Syncon       | 260          |
| Thermal      | 22           |
| <b>Total</b> | <b>1,052</b> |

| Time      | Weather | Temperature |
|-----------|---------|-------------|
| Afternoon | Cloudy  | 35          |
| Morning   | Sunny   | 25          |

**Gas Usage**

| Station          | (mmscfd)   |
|------------------|------------|
| CBPS             | 1          |
| CBPS             | 11         |
| GLGR             | 56         |
| PAKA             | 60         |
| PGPS             | 49         |
| SRDG             | 13         |
| TJGS             | 216        |
| <b>Total TNB</b> | <b>405</b> |

|                           |              |
|---------------------------|--------------|
| KLPP                      | 112          |
| MPSS                      | 37           |
| PDPS                      | 24           |
| PGLA                      | 110          |
| PKLG                      | 10           |
| PLPS                      | 97           |
| PTEK                      | 20           |
| SGB3                      | 85           |
| SGRI                      | 198          |
| SKSP                      | 40           |
| YPGS                      | 55           |
| YPKA                      | 63           |
| PKLG                      | 2            |
| <b>Total IPP</b>          | <b>853</b>   |
| <b>Total Gas</b>          | <b>1,258</b> |
| <b>Total Gas Required</b> | <b>1,258</b> |

**Alternate Fuel Usage**

| Station      | (mmscfd) |
|--------------|----------|
| <b>Total</b> | <b>0</b> |

**Hourly System MW Generation**

|              | 00:00 | 01:00 | 02:00 | 03:00 | 04:00 | 05:00 | 06:00 | 07:00 | 08:00 | 09:00 | 10:00 | 11:00 | 12:00 | 13:00 | 14:00 | 15:00 | 16:00 | 17:00 | 18:00 | 19:00 | 20:00 | 21:00 | 22:00 | 23:00 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| System Total | 11813 | 11297 | 10920 | 10655 | 10385 | 10408 | 10464 | 10790 | 11517 | 13600 | 14484 | 15180 | 15073 | 14733 | 15200 | 15280 | 15221 | 14912 | 13880 | 13934 | 14487 | 14239 | 13633 | 13243 |





### Daily MW Generation on Monday

| 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  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |
|------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|
| MNOR             | 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     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |
| PGAU             | HY01 | -1    | -1    | -1    | -1    | -1    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 81    | 113   | 106   | 112   | 112   | 113   | 113   | 113   | 114   | 114   | 114   | 21    | 21    | 114   | 114   | 112   | 112   | 113   | 113   | 0     | 0     | 0     | 0     |       |       |       |       |       |       |       |       |       |       |   |
| PGAU             | HY02 | 0     | 0     | 0     | 0     | 0     | 0     | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | 111   | 111   | 105   | 111   | 111   | 111   | 111   | 111   | 111   | 111   | 111   | 111   | -1    | -1    | -1    | 111   | 111   | 111   | 111   | 111   | 111   | -1    | -1    | -1    | -1    |       |       |       |       |       |       |       |       |   |
| PGAU             | HY03 | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | 105   | 111   | 111   | 111   | 111   | 111   | 111   | 111   | 111   | 111   | 111   | -1    | -1    | -1    | 112   | 111   | 111   | 111   | 111   | 111   | -1    | -1    | -1    | -1    |       |       |       |       |       |       |       |       |       |   |
| PGAU             | HY04 | -1    | 28    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | 30    | -1    | -1    | -1    | -1    | -1    | 112   | 112   | 106   | 112   | 112   | 112   | 111   | 111   | 112   | 112   | 112   | 112   | 112   | 112   | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | 30    | -1    | -1    | -1    |       |       |       |       |       |       |       |   |
| SEHY             | HY01 | 50    | 50    | 50    | 50    | 50    | 50    | 49    | 49    | 50    | 50    | 50    | 50    | 50    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |       |       |       |       |       |       |   |
| SEHY             | HY02 | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 0     | 0     | 0     | 0     | 0     | 0     | 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     | 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     | 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     | 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     | 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    | 38    | 48    | 48    | 50    | 47    | 47    | 48    | 50    | 47    | 47    | 44    | 30    | 30    | 34    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    |       |       |       |       |   |
| TMGR             | HY02 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 83    | 39    | 49    | 49    | 48    | 48    | 0     | 0     | 0     | 47    | 49    | 45    | 30    | 30    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |       |       |       |   |
| TMGR             | HY03 | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | 39    | 47    | 48    | 51    | 51    | -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 | 34    | 31    | 35    | 35    | 35    | 35    | 36    | 36    | 37    | 36    | 37    | 37    | 37    | 35    | 36    | 78    | 78    | 41    | 49    | 48    | 48    | 48    | 47    | 48    | 49    | 47    | 48    | 45    | 31    | 32    | 36    | 38    | 39    | 41    | 40    | 42    | 43    | 43    | 40    | 41    | 39    | 39    | 41    | 33    | 37    |       |       |       |   |
| UPIA             | HY01 | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     |       |       |       |       |   |
| UPIA             | HY02 | 4     | 5     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 5     | 5     |       |       |       |   |
| Total Hydro      |      | 297   | 319   | 309   | 301   | 300   | 298   | 309   | 310   | 324   | 312   | 332   | 350   | 319   | 330   | 345   | 314   | 311   | 347   | 714   | 825   | 993   | 1044  | 1078  | 1080  | 1116  | 796   | 647   | 691   | 991   | 993   | 977   | 938   | 862   | 792   | 711   | 380   | 231   | 229   | 325   | 764   | 765   | 759   | 761   | 757   | 449   | 323   | 309   | 318   |   |
| Total Distillate |      | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |   |
| PCUF             | CUPG | 54    | 51    | 54    | 55    | 54    | 54    | 53    | 54    | 52    | 56    | 52    | 54    | 53    | 51    | 55    | 55    | 54    | 53    | 51    | 52    | 53    | 53    | 51    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    |       |   |
| PCUF             | CUFK | 38    | 36    | 38    | 37    | 38    | 38    | 37    | 36    | 37    | 38    | 36    | 37    | 37    | 35    | 36    | 39    | 36    | 36    | 34    | 35    | 34    | 35    | 33    | 36    | 31    | 32    | 28    | 29    | 30    | 32    | 29    | 31    | 30    | 30    | 30    | 30    | 32    | 31    | 33    | 31    | 31    | 32    | 33    | 35    | 36    | 37    | 38    |       |   |
| Total Co-Gen     |      | 92    | 87    | 92    | 92    | 92    | 90    | 90    | 89    | 94    | 88    | 91    | 90    | 88    | 90    | 91    | 93    | 89    | 87    | 86    | 88    | 87    | 90    | 86    | 87    | 82    | 86    | 80    | 82    | 81    | 84    | 81    | 83    | 83    | 82    | 82    | 84    | 83    | 82    | 86    | 84    | 84    | 83    | 85    | 87    | 89    | 89    | 91    |       |   |
| Total Gen        |      | 11764 | 11446 | 11217 | 11049 | 10864 | 10759 | 10642 | 10394 | 10358 | 10295 | 10392 | 10435 | 10472 | 10757 | 10751 | 11070 | 11474 | 12622 | 13549 | 14036 | 14511 | 14812 | 15139 | 15185 | 15051 | 14783 | 14729 | 14896 | 15156 | 15306 | 15315 | 15337 | 15218 | 15118 | 14910 | 14349 | 13843 | 13639 | 13937 | 14554 | 14484 | 14340 | 14203 | 14029 | 13620 | 13508 | 13293 | 12911 |   |
| TIE-BGAT         |      | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 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   | -29   | -29   | -29   | -29   | -30   | -30   | -29   | -29   | -29   | -29   | -30   | -30   | -28   | -28   | -29   | -29   | -29   | -29   | -29   | -29   | -29   | -29   | -29   | -29   | -29   | -29   | -29   | -29   | -29   | -29   | -29   | -30   | -30   | -31   | -31   | -29   | -29   | -29   | -29   | -28   | -28   | -30   | -30   |       |       |   |
| TIE-PLTG         |      | -19   | -13   | -52   | -10   | -27   | 40    | 16    | 16    | 3     | -18   | 13    | 14    | 37    | 20    | -9    | 31    | -15   | 0     | -22   | -27   | 56    | -22   | -11   | -3    | 7     | -20   | 25    | -16   | -16   | 8     | 64    | 30    | 27    | 11    | 28    | 29    | -7    | 45    | 34    | 51    | 26    | 24    | -7    | 80    | 15    | 11    | 81    | -42   |   |
| Interconnection  |      | -49   | -43   | -80   | -38   | -56   | 11    | -13   | -14   | -27   | -48   | -16   | -15   | 8     | -9    | -39   | 1     | -43   | -28   | -51   | -56   | 27    | -51   | -41   | -33   | -22   | -49   | -4    | -45   | -44   | -19   | 35    | 0     | -3    | -18   | -2    | 0     | -37   | 15    | 3     | 20    | -3    | -5    | -36   | 51    | -13   | -17   | 50    | -73   |   |
| System Total     |      | 11813 | 11489 | 11297 | 11087 | 10920 | 10748 | 10655 | 10408 | 10385 | 10343 | 10408 | 10450 | 10464 | 10766 | 10790 | 11069 | 11517 | 12650 | 13600 | 14092 | 14484 | 14863 | 15189 | 15218 | 15073 | 14832 | 14733 | 14941 | 15200 | 15325 | 15280 | 15337 | 15221 | 15136 | 14912 | 14349 | 13880 | 13624 | 13934 | 14534 | 14487 | 14345 | 14239 | 13978 | 13633 | 13525 | 13243 | 12984 |   |
| SRev ST-Coal     |      | 11    | 19    | 9     | 11    | 19    | 29    | 24    | 12    | 27    | 1     | 0     | 1     | 4     | 16    | 7     | 3     | 28    | 2     | 11    | 11    | 43    | -5    | 25    | 25    | 32    | 23    | 19    | 14    | 21    | 4     | 31    | 7     | 19    | 13    | 15    | 33    | 23    | 25    | 5     | 14    | 10    | 21    | 13    | 25    | 29    | 31    | -38   | 15    |   |
| SRev OCGT-Gas    |      | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 158   | 175   | 285   | 330   | 305   | 295   | 281   | 238   | 301   | 286   | 360   | 448   | 431   | 411   | 401   | 177   | 131   | 136   | 128   | 129   | 130   | 180   | 68    | 0     | 0     | 0     | 0     | 0     | 0 |
| SRev CCGT-Gas    |      | 453   | 600   | 484   | 766   | 976   | 1069  | 1200  | 1461  | 1495  | 1667  | 1585  | 1562  | 1490  | 1223  | 1400  | 1508  | 1142  | 675   | 506   | 320   | 422   | 302   | 86    | 102   | 191   | 153   | 80    | 99    | 180   | 63    | 172   | 91    | 141   | 111   | 177   | 73    | 385   | 503   | 337   | 170   | 256   | 335   | 298   | 290   | 367   | 263   | 339   | 568   |   |
| 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 Co-Gen      |      | -16   | -11   | -16   | -16   | -16   | -14   | -14   | -13   | -18   | -12   | -15   | -14   | -12   | -14   | -15   | -17   | -13   | -11   | -10   | -12   | -11   | -14   | -10   | -11   | -6    | -10   | -4    | -6    | -5    | -8    | -5    | -7    | -7    | -6    | -6    | -8    | -7    | -6    | -10   | -8    | -8    | -7    | -9    | -11   | -13   | -13   | -15   |       |   |
| Syncon           |      | 720   | 569   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   | 720   |       |   |
| Hydro            |      | 123   | 252   | 111   | 119   | 120   | 122   | 111   | 110   | 96    | 108   | 88    | 221   | 101   | 90    | 226   | 106   | 109   | 111   | 235   | 206   | 455   | 428   | 417   | 415   | 376   | 283   | 282   | 238   | 318   | 316   | 332   | 375   | 389   | 354   | 313   | 184   | 233   | 235   | 139   | 202   | 201   | 207   | 205   | 209   | 216   | 91    | 112   | 102   |   |
| S.Reserve Total  |      | 1291  | 1429  | 1308  | 1600  | 1819  | 1924  | 2041  | 2289  | 2325  | 2478  | 2381  | 2338  | 2301  | 2037  | 2188  | 2322  | 1982  | 1495  | 1159  | 945   | 1167  | 990   | 900   | 963   | 994   | 1083  | 987   | 920   | 998   | 848   | 1071  | 1100  | 1157  | 1077  | 1179  | 1194  | 1498  | 1612  | 1323  | 934   | 1019  | 1165  | 1009  | 942   | 1170  | 1092  | 1120  | 1390  |   |