

### Availability at Daily Maximum Demand Hour

|              |                  |
|--------------|------------------|
| ST-Coal      | 0 MW             |
| ST-Gas       | 0 MW             |
| ST-Oil       | 0 MW             |
| Gas          | 2,848 MW         |
| Hydro        | 2,309 MW         |
| Distillate   | 0 MW             |
| Total TNB    | <u>5,157 MW</u>  |
| Total IPP    | <u>13,460 MW</u> |
| Total Co-Gen | <u>80 MW</u>     |
| Total System | <u>18,697 MW</u> |

### Maximum Demand Record

|                 |             |
|-----------------|-------------|
| Date: 4/20/2016 | 17,788 MW   |
| Date: 4/20/2016 | 372,457 MWH |

### Gas Usage

| Station                   | (mmscfd)     | Station      | (mmscfd)  |
|---------------------------|--------------|--------------|-----------|
| CBPS                      | 50           | PKLG         | 32        |
| GLGR                      | 54           | <b>Total</b> | <b>32</b> |
| PAKA                      | 194          |              |           |
| PGPS                      | 43           |              |           |
| SRDG                      | 9            |              |           |
| TJGS                      | 111          |              |           |
| <b>Total TNB</b>          | <b>462</b>   |              |           |
| CBPS                      | 57           |              |           |
| KLPP                      | 100          |              |           |
| MPSS                      | 51           |              |           |
| NPRI                      | 151          |              |           |
| PGLA                      | 55           |              |           |
| PKLG                      | 17           |              |           |
| PLPS                      | 65           |              |           |
| PTEK                      | 30           |              |           |
| SGRI                      | 162          |              |           |
| SKSP                      | 24           |              |           |
| PKLG                      | 59           |              |           |
| <b>Total IPP</b>          | <b>771</b>   |              |           |
| <b>Total Gas</b>          | <b>1,233</b> |              |           |
| <b>Total Gas Required</b> | <b>1,265</b> |              |           |

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

|                               |               |
|-------------------------------|---------------|
| Daily Maximum Demand Hour at: | 14:30:00 Hour |
| Total Set On Bus              | 17,494 MW     |
| TNB Generation                | 4,073 MW      |
| IPP Generation                | 12,065 MW     |
| Spinning Reserve              | 1,284 MW      |
| Maximum Demand                | 16,235 MW     |
| Net Energy                    | 346,031 MWH   |
| Load Factor                   | 88.81 %       |

### Generation Mix

| Type                    | MWh            | Percentage      |
|-------------------------|----------------|-----------------|
| Gas                     | 58,400         | 16.88 %         |
| Hydro                   | 23,968         | 6.93 %          |
| <b>Total TNB</b>        | <b>82,368</b>  | <b>23.80 %</b>  |
| ST-Coal                 | 157,841        | 45.61 %         |
| ST-Gas                  | 5,686          | 1.64 %          |
| ST-Oil                  | 3,286          | 0.95 %          |
| Gas                     | 94,548         | 27.32 %         |
| <b>Total IPP</b>        | <b>261,361</b> | <b>75.53 %</b>  |
| Co-Gen                  | 1,675          | 0.48 %          |
| <b>Total Co-Gen</b>     | <b>1,675</b>   | <b>0.48 %</b>   |
| <b>Total Generation</b> | <b>345,404</b> | <b>99.82 %</b>  |
| PLTG                    | 68             | 0.02 %          |
| HVDC                    | -695           | -0.20 %         |
| <b>Interconnection</b>  | <b>-627</b>    | <b>-0.18 %</b>  |
| <b>Net Energy</b>       | <b>346,031</b> | <b>100.00 %</b> |

### Fuel Cost

|               |                  |
|---------------|------------------|
| Total Cost:   | 56,838,111.60 RM |
| Cost per Unit | 17.68 cents/kWH  |

### Average Spinning Reserve During Peak Hour

| Type         | MW           |
|--------------|--------------|
| GT           | 427          |
| Hydro        | 421          |
| Syncon       | 451          |
| Thermal      | 151          |
| <b>Total</b> | <b>1,450</b> |

### Time Weather Temperature

| Time      | Weather | Temperature |
|-----------|---------|-------------|
| Afternoon | Rainy   | 32          |
| Morning   | Cloudy  | 28          |

### 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 | 14022 | 13236 | 12756 | 12593 | 12305 | 12015 | 12245 | 12347 | 12640 | 14551 | 15527 | 16179 | 15947 | 15616 | 16081 | 16095 | 16063 | 15830 | 14958 | 14573 | 15451 | 15284 | 14963 | 14326 |



### Daily MW Generation on Wednesday

| 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 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| PGPS           | GT3A | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| PGPS           | GT3B | 84   | 83   | 83   | 84   | 84   | 83   | 84   | 83   | 83   | 83   | 83   | 95   | 95   | 95   | 95   | 95   | 95   | 96   | 91   | 93   | 94   | 94   | 87   | 87   |
| PGPS           | ST3C | 38   | 38   | 38   | 38   | 38   | 38   | 38   | 38   | 38   | 38   | 38   | 37   | 82   | 92   | 93   | 93   | 94   | 94   | 94   | 88   | 91   | 91   | 85   | 90   |
| PLPS           | GT11 | 131  | 131  | 133  | 133  | 132  | 66   | 61   | 64   | 65   | 61   | 62   | 65   | 111  | 112  | 108  | 112  | 111  | 116  | 112  | 116  | 142  | 141  | 140  | 131  |
| PLPS           | GT12 | 141  | 139  | 140  | 142  | 140  | 68   | 64   | 64   | 67   | 68   | 64   | 63   | 67   | 119  | 120  | 114  | 120  | 118  | 124  | 119  | 122  | 140  | 140  | 139  |
| PLPS           | ST18 | 141  | 140  | 141  | 142  | 143  | 96   | 91   | 91   | 90   | 91   | 92   | 89   | 93   | 132  | 132  | 132  | 132  | 132  | 134  | 131  | 135  | 143  | 142  | 141  |
| SGRI           | GT11 | 136  | 137  | 124  | 127  | 115  | 138  | 137  | 115  | 115  | 115  | 137  | 137  | 134  | 121  | 111  | 115  | 117  | 134  | 109  | 137  | 137  | 123  | 114  | 116  |
| SGRI           | GT12 | 140  | 138  | 129  | 132  | 118  | 147  | 144  | 122  | 112  | 115  | 116  | 147  | 146  | 143  | 128  | 108  | 111  | 122  | 145  | 112  | 144  | 127  | 112  | 113  |
| SGRI           | GT13 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| SGRI           | ST14 | 147  | 145  | 138  | 139  | 135  | 147  | 149  | 137  | 138  | 131  | 135  | 147  | 149  | 147  | 137  | 131  | 131  | 140  | 57   | 139  | 135  | 135  | 135  | 137  |
| SGRI           | GT21 | 112  | 112  | 114  | 115  | 113  | 117  | 114  | 113  | 114  | 113  | 113  | 113  | 110  | 111  | 111  | 110  | 114  | 135  | 134  | 134  | 133  | 133  | 133  | 117  |
| SGRI           | GT22 | 114  | 115  | 114  | 116  | 115  | 117  | 111  | 114  | 115  | 113  | 113  | 114  | 116  | 110  | 111  | 108  | 112  | 112  | 116  | 141  | 139  | 139  | 139  | 139  |
| SGRI           | ST24 | 135  | 134  | 133  | 133  | 133  | 131  | 132  | 133  | 132  | 133  | 135  | 134  | 135  | 130  | 130  | 129  | 128  | 132  | 135  | 143  | 142  | 145  | 145  | 146  |
| SKSP           | BLK1 | 149  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 67   | 346  | 343  | 341  | 248  |      |
| TJGS           | GT1A | 222  | 222  | 222  | 219  | 218  | 219  | 220  | 222  | 220  | 217  | 222  | 220  | 221  | 222  | 221  | 222  | 219  | 219  | 219  | 219  | 219  | 219  | 219  | 219  |
| TJGS           | GT1B | 217  | 217  | 218  | 219  | 216  | 218  | 218  | 219  | 218  | 215  | 219  | 220  | 220  | 215  | 220  | 212  | 217  | 219  | 219  | 217  | 217  | 218  | 217  | 218  |
| TJGS           | ST1C | 246  | 246  | 246  | 249  | 249  | 249  | 249  | 249  | 249  | 246  | 246  | 250  | 249  | 246  | 246  | 246  | 246  | 246  | 246  | 246  | 246  | 249  | 257  | 254  |
| Total CCGT-Gas |      | 5866 | 5507 | 5460 | 5395 | 5223 | 5274 | 5182 | 4975 | 4858 | 4850 | 4936 | 5206 | 5260 | 5381 | 5253 | 5047 | 5458 | 6066 | 6485 | 6509 | 6767 | 6865 | 6968 | 6960 |
| PKLG           | GT08 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 35   | 99   | 99   | 100  | 99   | 99   |
| PKLG           | GT09 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 77   | 101  | 101  | 102  | 101  | 102  | 99   | 100  |
| PTEK           | GT1B | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 89   | 112  | 112  | 113  | 112  | 113  | 111  | 111  |
| PTEK           | GT2A | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 109  | 109  | 110  | 109  | 109  |
| PTEK           | GT2B | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 110  | 109  | 109  | 109  | 110  | 109  | 110  | 109  |
| SRDG           | GT05 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 76   | 125  | 126  | 125  | 90   | 89   | 89   | 90   |
| Total OCGT-Gas |      | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 166  | 358  | 497  | 657  | 657  | 659  | 618  | 620  |
| BSIA           | HY01 | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   |
| BSIA           | HY03 | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   |
| CEND           | HY01 | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    |
| CEND           | HY02 | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    |
| CEND           | HY03 | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    |
| CEND           | HY04 | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    |
| HTRG           | HY01 | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 65   | 125  | 126  | 127  | 126  | 127  | 65   | 64   | 126  |
| HTRG           | HY02 | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 65   | 124  | 125  | 123  | 124  | 124  | 63   | 63   | 124  |
| KNRG           | HY01 | 34   | 34   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 34   | 34   | 34   | 34   | 34   | 34   | 34   | 34   | 34   |
| KNRG           | HY02 | 35   | 35   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   |
| KNRG           | HY03 | 35   | 35   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 34   | 34   | 34   | 34   | 34   | 34   | 34   | 34   | 34   |
| KNYR           | HY01 | 100  | 102  | 102  | 102  | 102  | 66   | 63   | 61   | 64   | 64   | 61   | 100  | 103  | 64   | 60   | 57   | 64   | 61   | 102  | 60   | 103  | 97   | 59   | 61   |
| KNYR           | HY03 | 101  | 103  | 103  | 103  | 103  | 103  | 102  | 102  | 102  | -1   | -1   | -1   | -1   | -1   | -1   | 101  | 103  | 98   | 104  | 101  | 99   | 101  | 100  | 104  |
| KNYR           | HY04 | 102  | 104  | 104  | 104  | 104  | 104  | 104  | 104  | 62   | -1   | -1   | -1   | -1   | -1   | 101  | 104  | 99   | 104  | 102  | 100  | 101  | 101  | 104  | 104  |
| LPIA           | HY01 | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   |
| LPIA           | HY02 | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   |
| MNOR           | HY01 | 7    | 7    | 7    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 5    | 5    | 5    | 5    | 5    | 5    | 6    | 6    | 6    | 7    | 7    |
| PGAU           | HY01 | -1   | -1   | -1   | -1   | -1   | 22   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 119  | 129  | 129  | 129  | -1   | -1   | -1   | -1   |
| PGAU           | HY02 | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 21   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |
| PGAU           | HY03 | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 112  | 112  | 112  | -1   | -1   | -1   | -1   | -1   |
| PGAU           | HY04 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   |
| SIHY           | HY01 | 50   | 50   | 35   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 50   | 50   | 50   | 50   | 50   | 50   | 51   | 51   | 51   | 51   | 51   | 51   |

