

### Availability at Daily Maximum Demand Hour

|                     |                  |
|---------------------|------------------|
| ST-Coal             | 0 MW             |
| ST-Gas              | 0 MW             |
| ST-Oil              | 0 MW             |
| Gas                 | 2,516 MW         |
| Hydro               | 2,375 MW         |
| Distillate          | 0 MW             |
| <b>Total TNB</b>    | <b>4,891 MW</b>  |
| <b>Total IPP</b>    | <b>14,904 MW</b> |
| <b>Total Co-Gen</b> | <b>60 MW</b>     |
| <b>Total System</b> | <b>20,419 MW</b> |

### Generation Mix

| Type                    | MWh            | Percentage      |
|-------------------------|----------------|-----------------|
| Gas                     | 34,074         | 9.80 %          |
| Hydro                   | 32,105         | 9.23 %          |
| <b>Total TNB</b>        | <b>66,179</b>  | <b>19.03 %</b>  |
| ST-Coal                 | 204,235        | 58.73 %         |
| Gas                     | 73,848         | 21.24 %         |
| Distillate              | 4,430          | 1.27 %          |
| <b>Total IPP</b>        | <b>282,513</b> | <b>81.24 %</b>  |
| Co-Gen                  | 162            | 0.05 %          |
| <b>Total Co-Gen</b>     | <b>162</b>     | <b>0.05 %</b>   |
| <b>Total Generation</b> | <b>348,854</b> | <b>100.31 %</b> |
| PLTG                    | 364            | 0.10 %          |
| HVDC                    | 726            | 0.21 %          |
| <b>Interconnection</b>  | <b>1,090</b>   | <b>0.31 %</b>   |
| <b>Net Energy</b>       | <b>347,764</b> | <b>100.00 %</b> |

### Maximum Demand Record

|                  |             |
|------------------|-------------|
| Date: 10/23/2017 | 17,790 MW   |
| Date: 4/20/2016  | 372,457 MWH |

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

|                               |               |
|-------------------------------|---------------|
| Daily Maximum Demand Hour at: | 15:30:00 Hour |
| Total Set On Bus              | 17,414 MW     |
| TNB Generation                | 3,749 MW      |
| IPP Generation                | 12,543 MW     |
| Spinning Reserve              | 1,117 MW      |
| Maximum Demand                | 16,246 MW     |
| Net Energy                    | 347,764 MWH   |
| Load Factor                   | 89.19 %       |

### Fuel Cost

|               |                  |
|---------------|------------------|
| Total Cost:   | 57,177,877.21 RM |
| Cost per Unit | 18.07 cents/kWH  |

### Average Spinning Reserve During Peak Hour

| Type         | MW           |
|--------------|--------------|
| GT           | 739          |
| Hydro        | 364          |
| Syncon       | 236          |
| Thermal      | 141          |
| <b>Total</b> | <b>1,480</b> |

### Time Weather Temperature

|           |       |    |
|-----------|-------|----|
| Afternoon | Rainy | 33 |
| Morning   | Sunny | 24 |

### Gas Usage

| Station                   | (mmscfd)   | Station      | (mmscfd)  |
|---------------------------|------------|--------------|-----------|
| GLGR                      | 52         | KLPP         | 8         |
| PGPS                      | 1          | PLPS         | 14        |
| SRDG                      | 7          | SGB3         | 12        |
| TJGS                      | 188        | <b>Total</b> | <b>35</b> |
| <b>Total TNB</b>          | <b>248</b> |              |           |
| CBPS                      | 55         |              |           |
| KLPP                      | 82         |              |           |
| NPRI                      | 70         |              |           |
| PKLG                      | 2          |              |           |
| PLPS                      | 63         |              |           |
| PTEK                      | 2          |              |           |
| SGB3                      | 61         |              |           |
| SGRI                      | 65         |              |           |
| SKSP                      | 1          |              |           |
| YPKA                      | 84         |              |           |
| <b>Total IPP</b>          | <b>485</b> |              |           |
| <b>Total Gas</b>          | <b>732</b> |              |           |
| <b>Total Gas Required</b> | <b>767</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 | 13710 | 13244 | 12744 | 12362 | 12160 | 12066 | 12277 | 12396 | 12925 | 14557 | 15326 | 15971 | 15910 | 15532 | 15976 | 16192 | 16222 | 15977 | 14967 | 15494 | 15961 | 15710 | 15127 | 14466 |





### 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 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |    |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|----|
| TJGS           | ST2C | 253  | 240  | 238  | 247  | 251  | 261  | 257  | 239  | 253  | 248  | 259  | 261  | 258  | 260  | 247  | 259  | 257  | 252  | 255  | 253  | 243  | 256  | 253  | 253  | 247  | 244  | 242  | 240  | 256  | 253  | 253  | 245  | 255  | 254  | 255  | 236  | 236  | 255  | 255  | 255  | 255  | 255  | 237  | 224  | 224  | 224  | 224  |      |     |    |
| YPKA           | GT11 | 97   | 101  | 101  | 95   | 63   | 63   | 63   | 63   | 62   | 62   | 63   | 63   | 62   | 63   | 63   | 62   | 130  | 129  | 129  | 137  | 137  | 136  | 136  | 134  | 133  | 133  | 132  | 133  | 135  | 137  | 135  | 132  | 132  | 132  | 134  | 135  | 100  | 135  | 136  | 134  | 134  | 134  | 134  | 133  | 134  | 132  | 136  |      |     |    |
| YPKA           | GT12 | 96   | 102  | 102  | 89   | 62   | 63   | 62   | 62   | 62   | 62   | 63   | 62   | 62   | 62   | 63   | 62   | 125  | 130  | 130  | 135  | 137  | 135  | 134  | 135  | 133  | 132  | 134  | 133  | 134  | 135  | 135  | 135  | 133  | 133  | 132  | 134  | 133  | 101  | 133  | 134  | 132  | 132  | 132  | 132  | 133  | 136  | 134  | 136  |     |    |
| YPKA           | ST10 | 111  | 101  | 101  | 101  | 75   | 74   | 75   | 75   | 74   | 75   | 74   | 75   | 75   | 74   | 75   | 119  | 120  | 121  | 129  | 130  | 130  | 130  | 130  | 129  | 130  | 129  | 130  | 130  | 130  | 129  | 129  | 129  | 129  | 129  | 128  | 129  | 129  | 102  | 128  | 129  | 127  | 126  | 126  | 125  | 125  | 124  | 126  | 128  |     |    |
| YPKA           | GT21 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 50   | 90   | 90   | 90   | 89   | 135  | 133  | 132  | 132  | 130  | 130  | 131  | 132  | 133  | 133  | 133  | 131  | 131  | 130  | 132  | 132  | 130  | 130  | 133  | 132  | 133  | 132  | 134  | 135  | 134  | 134  | 134  |      |     |    |
| YPKA           | ST20 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |     |    |
| Total CCCT-Gas |      | 4094 | 3816 | 3692 | 3817 | 3592 | 3474 | 3303 | 3167 | 3244 | 3245 | 3394 | 3341 | 3310 | 3426 | 3356 | 3506 | 3977 | 4220 | 4484 | 4694 | 4910 | 5193 | 5287 | 5331 | 5186 | 5080 | 4986 | 5037 | 5270 | 5263 | 5233 | 5217 | 5209 | 5338 | 5250 | 5192 | 4923 | 5006 | 5225 | 5357 | 5370 | 5371 | 5313 | 5234 | 4918 | 4768 | 4591 | 4107 |     |    |
| PKLG           | GT08 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |    |
| PTEK           | GT1B | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   |    |
| SRDG           | GT04 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   |    |
| SRDG           | GT05 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   |    |
| Total OCCT-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   |    |
| BSIA           | HY01 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 10   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21  | 21 |
| BSIA           | HY02 | 23   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23  |    |
| BSIA           | HY03 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 9    | 22   | 22   | 22   | 22   | 24   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 24   | 24   | 23   | 23   | 23  | 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    | 9    | 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 | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 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           | HY03 | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 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           | HY04 | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 7    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8   |    |
| HTRC           | HY02 | 125  | 125  | 125  | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 125  | 124  | 124  | 63   | 63   | 63   | 63   | 63   | 63   | 63   | 63   | 63   | 63   | 64   | 64   | 64   | 64   | 64   | 101  | 125  | 125  | 125  | 125  | 125  | 125  | 125  | 125  | 63   | 63   | 125  | 125  | 125  | 63   | 63   | 63   | 63   | 63  |    |
| KNRG           | HY01 | 22   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   |      |     |    |
| KNRG           | HY02 | 24   | 25   | 24   | 25   | 25   | 25   | 24   | 25   | 25   | 25   | 25   | 25   | 24   | 24   | 24   | 25   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   |     |    |
| KNRC           | HY03 | 20   | 21   | 20   | 21   | 21   | 22   | 20   | 21   | 21   | 21   | 21   | 21   | 20   | 21   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |     |    |
| KNYR           | HY01 | 95   | 95   | 98   | 99   | 99   | 99   | 99   | 99   | 99   | 99   | 95   | 95   | 97   | 98   | 91   | 95   | 93   | 93   | 93   | 93   | 93   | 93   | 93   | 93   | 93   | 98   | 99   | 99   | 99   | 99   | 99   | 99   | 99   | 99   | 99   | 89   | 89   | 90   | 86   | 88   | 88   | 89   | 89   | 90   | 91   | 90   | 88   | 85   | 88  | 92 |
| KNYR           | HY02 | 96   | 96   | 98   | 101  | 101  | 103  | 102  | 101  | 103  | 101  | 101  | 101  | 103  | 103  | 103  | 101  | 101  | 99   | 99   | 99   | 99   | 99   | 99   | 99   | 99   | 98   | 99   | 99   | 99   | 101  | 100  | 100  | 100  | 102  | 100  | 101  | 97   | 99   | 99   | 100  | 100  | 101  | 102  | 101  | 99   | 96   | 99   | 103  |     |    |
| KNYR           | HY03 | 94   | 94   | 94   | 95   | 94   | 94   | 95   | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 97   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98  |    |
| KNYR           | HY04 | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98   | 98  |    |
| LPIA           | HY01 | 20   | 20   | 20   | 20   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |     |    |
| LPIA           | HY02 | 16   | 16   | 16   | 16   | 16   | 16   | 12   | 12   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 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 | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    |     |    |
| PGAU           | HY01 | 76   | 81   | 82   | 81   | 82   | 85   | 82   | 30   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 112  | 110  | 110  | 111  | 111  | 111  | 111  | 111  | 111  | 111  | 110  | 111  | 111  | 111  | 111  | 111  | 110  | 149  | 149  | 150  | 149  | 110  | 82   | 81   | 81   | 111  | 111  | 111  | 79   | 79   | 79   | 79   | 110  | 114 |    |
| PGAU           | HY02 | 21   | 21   | 22   | 22   | 22   | 22   | 22   | 22   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 112  | 114  | 114  | 114  | 114  | 114  | 114  | 114  | 114  | 114  | 114  | 114  | 114  | 114  | 114  | 114  | 145  | 145  | 144  | 144  | 113  | 82   | 82   | 83   | 145  | 146  | 146  | 80   | 80   | 80   | 80   | 112  | 114  |     |    |
| PGAU           | HY03 | 75   | 81   | 81   | 81   | 81   | 85   | 81   | 39   | 21   | -1   | -1   | -1   | -1   | -1   | 23   | -1   | -1   | 112  | 112  | 112  | 112  | 112  | 112  | 112  | 112  | 112  | 112  | 112  | 112  | 112  | 112  | 112  | 144  | 144  | 145  | 81   | 81   | 81   | 112  | 112  | 112  | 112  | 112  | 20   | 25   | 110  | 116  |      |     |    |
| PGAU           | HY04 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 21   | 113  | 114  | 114  | 114  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |    |

