

Availability at Daily Maximum Demand Hour

| | |
|--------------|------------------|
| ST-Coal | 0 MW |
| ST-Gas | 0 MW |
| ST-Oil | 0 MW |
| Gas | 2,848 MW |
| Hydro | 2,273 MW |
| Distillate | 0 MW |
| Total TNB | <u>5,121 MW</u> |
| Total IPP | <u>14,592 MW</u> |
| Total Co-Gen | <u>90 MW</u> |
| Total System | <u>19,803 MW</u> |

Generation Mix

| Type | MWh | Percentage |
|-------------------------|----------------|-----------------|
| Gas | 50,152 | 14.13 % |
| Hydro | 17,768 | 5.01 % |
| Total TNB | 67,920 | 19.14 % |
| ST-Coal | 177,587 | 50.04 % |
| ST-Gas | 474 | 0.13 % |
| Gas | 107,105 | 30.18 % |
| Total IPP | 285,166 | 80.36 % |
| Co-Gen | 1,884 | 0.53 % |
| Total Co-Gen | 1,884 | 0.53 % |
| Total Generation | 354,970 | 100.03 % |
| PLTG | 785 | 0.22 % |
| HVDC | -695 | -0.20 % |
| Interconnection | 90 | 0.03 % |
| Net Energy | 354,880 | 100.00 % |

Maximum Demand Record

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

Set On Bus, TNB, IPP And MD

| | |
|-------------------------------|---------------|
| Daily Maximum Demand Hour at: | 16:30:00 Hour |
| Total Set On Bus | 18,442 MW |
| TNB Generation | 3,740 MW |
| IPP Generation | 13,057 MW |
| Spinning Reserve | 1,566 MW |
| Maximum Demand | 16,902 MW |
| Net Energy | 354,880 MWH |
| Load Factor | 87.48 % |

Fuel Cost

| | |
|---------------|------------------|
| Total Cost: | 58,495,290.65 RM |
| Cost per Unit | 17.35 cents/kWH |

Average Spinning Reserve During Peak Hour

| Type | MW |
|--------------|--------------|
| GT | 389 |
| Hydro | 500 |
| Syncon | 634 |
| Thermal | 139 |
| Total | 1,662 |

| Time | Weather | Temperature |
|-----------|---------|-------------|
| Afternoon | Hot | 35 |
| Morning | Cloudy | 28 |

Gas Usage

| Station | (mmscfd) |
|---------------------------|--------------|
| CBPS | 48 |
| GLGR | 55 |
| PAKA | 131 |
| PGPS | 44 |
| SRDG | 21 |
| TJGS | 105 |
| Total TNB | 404 |
| CBPS | 54 |
| KLPP | 108 |
| MPSS | 51 |
| NPRI | 144 |
| PDPS | 11 |
| PGLA | 115 |
| PKLG | 8 |
| PLPS | 93 |
| PTEK | 25 |
| SGB3 | 75 |
| SGRI | 93 |
| SKSP | 31 |
| PKLG | 5 |
| Total IPP | 813 |
| Total Gas | 1,217 |
| Total Gas Required | 1,217 |

Alternate Fuel Usage

| Station | (mmscfd) |
|--------------|----------|
| Total | 0 |

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 | 13979 | 13233 | 12777 | 12486 | 12229 | 12130 | 12372 | 12309 | 12855 | 14762 | 15600 | 16378 | 16392 | 16054 | 16496 | 16857 | 16878 | 16514 | 15394 | 15274 | 16173 | 16128 | 15601 | 15166 |

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 | 94 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PGPS | GT3B | 94 | 95 | 84 | 84 | 84 | 83 | 83 | 83 | 83 | 84 | 83 | 84 | 86 | 83 | 78 | 80 | 94 | 95 | 94 | 94 | 95 | 94 | 94 | 94 |
| PGPS | ST3C | 92 | 92 | 39 | 39 | 39 | 39 | 39 | 39 | 38 | 38 | 38 | 38 | 38 | 36 | 60 | 91 | 93 | 93 | 93 | 94 | 94 | 94 | 94 | 94 |
| PLPS | GT11 | 144 | 114 | 116 | 113 | 115 | 116 | 116 | 111 | 111 | 108 | 111 | 115 | 115 | 112 | 111 | 118 | 108 | 111 | 107 | 115 | 137 | 138 | 138 | 127 |
| PLPS | GT12 | 142 | 120 | 124 | 118 | 122 | 123 | 123 | 118 | 119 | 116 | 120 | 122 | 123 | 120 | 119 | 125 | 118 | 120 | 115 | 119 | 141 | 139 | 138 | 132 |
| PLPS | GT13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 117 | 142 | 135 | 135 | 136 | 124 | 121 | |
| PLPS | ST18 | 143 | 135 | 132 | 133 | 133 | 132 | 133 | 132 | 132 | 130 | 133 | 133 | 134 | 132 | 131 | 133 | 132 | 134 | 180 | 203 | 210 | 211 | 210 | |
| SGB3 | GT31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SGB3 | GT32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 78 | 144 | 144 | 144 | 143 | 122 | 135 | |
| SGB3 | GT33 | 118 | 117 | 120 | 120 | 117 | 117 | 120 | 117 | 117 | 113 | 116 | 120 | 120 | 116 | 115 | 125 | 113 | 116 | 111 | 115 | 116 | 120 | 119 | |
| SGB3 | ST34 | 62 | 64 | 64 | 62 | 62 | 63 | 63 | 62 | 62 | 62 | 64 | 64 | 62 | 62 | 63 | 63 | 93 | 145 | 144 | 144 | 144 | 205 | 209 | |
| SGRI | GT11 | 116 | 117 | 114 | 113 | 113 | 114 | 114 | 111 | 112 | 111 | 67 | 67 | 64 | 65 | 65 | 66 | 108 | 119 | 118 | 115 | 137 | 137 | 115 | |
| SGRI | GT12 | 112 | 111 | 116 | 113 | 112 | 113 | 114 | 111 | 111 | 107 | 100 | 70 | 70 | 71 | 71 | 70 | 70 | 115 | 116 | 111 | 142 | 142 | 112 | |
| SGRI | GT13 | 113 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 113 | 114 | 133 | 134 | 114 | 127 | |
| SGRI | ST14 | 198 | 180 | 138 | 138 | 139 | 138 | 139 | 132 | 130 | 131 | 123 | 99 | 100 | 100 | 97 | 98 | 112 | 131 | 198 | 201 | 223 | 218 | 196 | |
| SKSP | BLK1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 98 | 162 | 328 | 339 | 337 | |
| TJGS | GT1A | 180 | 121 | 171 | 233 | 178 | 188 | 203 | 166 | 121 | 119 | 134 | 166 | 189 | 230 | 214 | 234 | 229 | 230 | 211 | 228 | 228 | 228 | 225 | |
| TJGS | GT1B | 169 | 112 | 160 | 214 | 168 | 173 | 192 | 155 | 110 | 110 | 122 | 158 | 182 | 215 | 203 | 214 | 213 | 218 | 202 | 215 | 217 | 217 | 213 | |
| TJGS | ST1C | 234 | 167 | 206 | 246 | 218 | 204 | 212 | 217 | 166 | 166 | 155 | 190 | 212 | 248 | 238 | 241 | 254 | 254 | 246 | 253 | 253 | 256 | 253 | |
| Total CCGT-Gas | | 6007 | 5643 | 5407 | 5150 | 4922 | 4805 | 4817 | 4646 | 4424 | 4353 | 4241 | 4345 | 4410 | 4588 | 4262 | 4520 | 4951 | 5847 | 6347 | 6750 | 6998 | 7168 | 7356 | |
| PDP5 | GT01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PDP5 | GT03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| PTEK | GT1A | 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 |
| PTEK | GT2A | 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 | GT2B | 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 |
| 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 |
| Total 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 |
| BSIA | HY01 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| BSIA | HY03 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CEND | HY01 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| CEND | HY02 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| CEND | HY03 | 8 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| CEND | HY04 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HTRG | HY01 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | 65 | 64 | 127 | 127 | 126 | 127 | 64 | 0 | |
| HTRG | HY02 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | 63 | 63 | 125 | 125 | |
| KNRG | 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 |
| KNRG | HY02 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 24 | 24 | 23 | 25 | 23 | 24 | 22 | 23 | 23 | 22 | 22 | 22 | 22 | |
| KNRG | HY03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| KNYR | HY01 | 61 | 61 | 67 | 63 | 63 | 61 | 66 | 58 | 59 | 57 | 60 | 61 | 61 | 96 | 57 | 95 | 63 | 102 | 66 | 91 | 99 | 99 | 98 | |
| KNYR | HY03 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | 103 | 97 | 97 | 101 | 102 | 100 | | |
| KNYR | HY04 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | 5 | 65 | 72 | 95 | 101 | 102 | 85 | | |
| LPIA | HY02 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |
| 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 |
| PGAU | 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 |

