

Availability at Daily Maximum Demand Hour

| | |
|---------------------|------------------|
| ST-Coal | 0 MW |
| ST-Gas | 0 MW |
| ST-Oil | 0 MW |
| Hydro | 2,211 MW |
| Distillate | 0 MW |
| Total TNB | 2,211 MW |
| Total IPP | 15,647 MW |
| Total Co-Gen | 0 MW |
| Total System | 21,146 MW |

Generation Mix

| Type | MWh | Percentage |
|-------------------------|----------------|-----------------|
| Hydro | 23,297 | 7.04 % |
| Gas | 40,777 | 12.33 % |
| Total TNB | 64,074 | 19.37 % |
| ST-Coal | 187,341 | 56.63 % |
| LSS | 3,821 | 1.16 % |
| Distillate | 543 | 0.16 % |
| Gas | 73,797 | 22.31 % |
| Total IPP | 265,502 | 80.26 % |
| Co-Gen | 636 | 0.19 % |
| Total Co-Gen | 636 | 0.19 % |
| Total Generation | 330,212 | 99.82 % |
| PLTG | 111 | 0.03 % |
| HVDC | -691 | -0.21 % |
| Interconnection | -580 | -0.18 % |
| Net Energy | 330,792 | 100.00 % |

Maximum Demand Record

| | |
|-----------------|-------------|
| Date: 3/10/2020 | 18,808 MW |
| Date: 3/10/2020 | 394,238 MWH |

Set On Bus, TNB, IPP And MD

| | |
|-------------------------------|---------------|
| Daily Maximum Demand Hour at: | 21:00:00 Hour |
| Total Set On Bus | 17,100 MW |
| TNB Generation | 3,570 MW |
| IPP Generation | 12,105 MW |
| Spinning Reserve | 1,363 MW |
| Maximum Demand | 15,695 MW |
| Net Energy | 330,792 MWH |
| Load Factor | 87.82 % |

Fuel Cost

| | |
|---------------|------------------|
| Total Cost: | 43,460,080.30 RM |
| Cost per Unit | 13.15 cents/kWH |

Average Spinning Reserve During Peak Hour

| Type | MW |
|--------------|--------------|
| GT | 1,083 |
| Hydro | 269 |
| Syncon | 493 |
| Thermal | 266 |
| Total | 2,111 |

| Time | Weather | Temperature |
|-----------|---------|-------------|
| Afternoon | Hot | 34 |
| Morning | Sunny | 26 |

Gas Usage

| Station | (mmscfd) |
|------------------|------------|
| GLGR | 49 |
| TJGS | 101 |
| Total TNB | 150 |
| CBPS | 51 |
| KLPP | 41 |
| NPRI | 101 |
| PGLA | 107 |
| PLPS | 90 |
| SGB3 | 48 |
| YPKA | 56 |
| Total IPP | 493 |
| Total Gas | 644 |

Total Gas Required 648

Alternate Fuel Usage

| Station | (mmscfd) |
|--------------|----------|
| KLPP | 2 |
| PLPS | 1 |
| SGB3 | 1 |
| Total | 5 |

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 | 15210 | 14524 | 13982 | 13510 | 13121 | 12631 | 12526 | 12347 | 11725 | 12118 | 12698 | 13144 | 13347 | 13436 | 14007 | 14328 | 14330 | 14109 | 13777 | 13971 | 15464 | 15695 | 15545 | 15383 |

Daily MW Generation on Sunday

| 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 |
|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 21 | 12 | 12 | 12 | 12 | 21 | 21 | 21 | 12 | 12 | 12 | 21 | 21 | 21 |
| BSIA | HY02 | 24 | 24 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 12 | 13 | 13 | 13 | 23 | 23 | 23 | 23 | 12 | 13 | 13 | 12 | 14 |
| BSIA | HY03 | 25 | 25 | 24 | 25 | 24 | 25 | 24 | 24 | 24 | 24 | 24 | 11 | 12 | 12 | 12 | 22 | 22 | 22 | 22 | 9 | 12 | 12 | 12 | 11 |
| CEND | HY01 | 10 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 9 | 10 | 9 | 9 | 10 | 9 | 9 | 10 | 10 | 10 | 9 | 9 | 10 | 9 | 9 | 10 |
| 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 | 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 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| HTRG | HY01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 124 | 0 | 0 | 0 | 62 | -1 |
| HTRG | HY02 | 124 | 125 | 124 | 124 | 124 | 125 | 124 | 124 | 124 | 125 | 125 | 124 | 63 | 63 | 62 | 63 | 63 | -1 | -1 | -1 | -1 | -1 | -1 | -1 |
| KNRG | HY01 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 23 | 22 | 23 | 23 | 22 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| KNRG | HY02 | 37 | 37 | 37 | 37 | 37 | 38 | 37 | 37 | 37 | 37 | 37 | 38 | 37 | 23 | 23 | 24 | 24 | 22 | 24 | 23 | 23 | 24 | 24 | 24 |
| KNRG | HY03 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 24 | 25 | 25 | 25 | 24 | 25 | 25 | 25 | 24 | 25 | 25 | 24 |
| KNYR | HY01 | 100 | 101 | 100 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 60 | 60 | 60 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 |
| KNYR | HY02 | 100 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 60 | -1 | -1 | -1 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 |
| KNYR | HY03 | 101 | 101 | 101 | 102 | 101 | 102 | 102 | 101 | 101 | 101 | 101 | 101 | 60 | 60 | 60 | 101 | 101 | 102 | 102 | 101 | 101 | 101 | 101 | 101 |
| KNYR | HY04 | 100 | 101 | 100 | 101 | 101 | 101 | 101 | 101 | 100 | 101 | 101 | 101 | 60 | 60 | 59 | 60 | 61 | 101 | 100 | 101 | 101 | 101 | 101 | 101 |
| LPIA | HY01 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| LPIA | HY02 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 16 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| MNOR | HY01 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| PGAU | HY01 | 21 | 22 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 |
| PGAU | HY02 | 21 | 21 | 21 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 |
| PGAU | HY03 | 21 | 21 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PGAU | HY04 | 21 | 21 | 21 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 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 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| TMGR | HY01 | 82 | 82 | 82 | 82 | 83 | 82 | 82 | 82 | 82 | 35 | 35 | 35 | 35 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 |
| TMGR | HY02 | 92 | 90 | 90 | 90 | 89 | 90 | 90 | 90 | 89 | 89 | 35 | 35 | 35 | 32 | 35 | 35 | 35 | 35 | 32 | 35 | 35 | 35 | 35 | 35 |
| TMGR | HY03 | 82 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 79 | 80 | 80 | 33 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TMGR | HY04 | 46 | 42 | 45 | 82 | 43 | 85 | 68 | 60 | 65 | 85 | 41 | 41 | 38 | 41 | 42 | 86 | 85 | 38 | 85 | 41 | 86 | 82 | 65 | 85 |
| UJLI | HY02 | 98 | 95 | 99 | 99 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | 93 | 102 | 95 | 151 | 99 | 94 | -1 |
| UPIA | 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 |
| UPIA | HY02 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Total Hydro | | 1266 | 1259 | 1238 | 1236 | 1073 | 1120 | 1102 | 1095 | 1098 | 1117 | 1069 | 1071 | 971 | 923 | 824 | 625 | 494 | 499 | 570 | 733 | 689 | 727 | 680 | 726 |
| KLPP | GT14 | 146 | 146 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PLPS | GT12 | 151 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SGB3 | GT33 | 128 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Distillate | | 425 | 247 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BDSL | LSS1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 5 | 15 | 16 | 14 | 21 | 24 | 25 | 26 | 27 | 28 |
| BKLS | LSS1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 10 | 14 | 19 | 23 | 26 | 28 | 30 | 30 | 30 | 29 |
| BSLS | LSS1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 11 | 16 | 21 | 25 | 28 | 30 | 30 | 30 | 30 | 17 |
| CHLS | LSS1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 8 | 14 | 20 | 27 | 33 | 35 | 30 | 24 | 33 | 33 | 24 |
| GBLS | LSS1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 11 | 18 | 23 | 32 | 35 | 38 | 38 | 25 | 31 | 45 | 29 |
| GELS | LSS1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 5 | 11 | 7 | 22 | 15 | 27 | 29 | 23 | 30 | 30 |
| GNLS | LSS1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 16 | 24 | 30 | 36 | 41 | 45 | 47 | 48 | 50 | 51 |

