

Availability at Daily Maximum Demand Hour

| | |
|---------------------|------------------|
| ST-Coal | 0 MW |
| ST-Gas | 0 MW |
| ST-Oil | 0 MW |
| Gas | 2,802 MW |
| Hydro | 2,145 MW |
| Distillate | 0 MW |
| Total TNB | 4,947 MW |
| Total IPP | 15,713 MW |
| Total Co-Gen | 40 MW |
| Total System | 21,272 MW |

Generation Mix

| Type | MWh | Percentage |
|-------------------------|----------------|-----------------|
| Gas | 41,754 | 11.66 % |
| Hydro | 11,270 | 3.15 % |
| Total TNB | 53,024 | 14.81 % |
| ST-Coal | 181,823 | 50.78 % |
| Gas | 122,734 | 34.28 % |
| Total IPP | 304,557 | 85.06 % |
| Co-Gen | 1,176 | 0.33 % |
| Total Co-Gen | 1,176 | 0.33 % |
| Total Generation | 358,757 | 100.20 % |
| PLTG | -12 | 0.00 % |
| HVDC | 728 | 0.20 % |
| Interconnection | 716 | 0.20 % |
| Net Energy | 358,041 | 100.00 % |

Maximum Demand Record

| | |
|-----------------|-------------|
| Date: 8/15/2018 | 18,338 MW |
| Date: 8/15/2018 | 388,524 MWH |

Set On Bus, TNB, IPP And MD

| | |
|-------------------------------|---------------|
| Daily Maximum Demand Hour at: | 15:30:00 Hour |
| Total Set On Bus | 17,974 MW |
| TNB Generation | 2,389 MW |
| IPP Generation | 14,249 MW |
| Spinning Reserve | 1,288 MW |
| Maximum Demand | 16,670 MW |
| Net Energy | 358,041 MWH |
| Load Factor | 89.49 % |

Fuel Cost

| | |
|---------------|------------------|
| Total Cost: | 66,597,802.34 RM |
| Cost per Unit | 19.16 cents/kWH |

Average Spinning Reserve During Peak Hour

| Type | MW |
|--------------|--------------|
| GT | 554 |
| Hydro | 362 |
| Syncon | 369 |
| Thermal | 95 |
| Total | 1,380 |

Time Weather Temperature

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

Gas Usage

| Station | (mmscfd) |
|---------------------------|--------------|
| CBPS | 2 |
| GLGR | 49 |
| PGPS | 38 |
| TJGS | 214 |
| Total TNB | 303 |
| CBPS | 53 |
| KLPP | 96 |
| MPSS | 29 |
| NPRI | 132 |
| PGLA | 114 |
| PLPS | 87 |
| SGB3 | 33 |
| SGRI | 163 |
| SKSP | 48 |
| YPKA | 83 |
| Total IPP | 838 |
| Total Gas | 1,141 |
| Total Gas Required | 1,141 |

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 | 14673 | 13894 | 13403 | 13066 | 12780 | 12541 | 12885 | 12836 | 13231 | 14785 | 15806 | 16385 | 16373 | 15914 | 16063 | 16571 | 16593 | 16338 | 15471 | 15445 | 16210 | 15887 | 15307 | 14931 |

Daily MW Generation on Friday

| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|---|---|
| UPIA | HY02 | 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 | | | | | | | | | | | | | | | | |
| Total Hydro | | 139 | 139 | 160 | 161 | 139 | 136 | 136 | 137 | 134 | 136 | 161 | 150 | 150 | 130 | 130 | 129 | 127 | 129 | 151 | 421 | 411 | 681 | 673 | 713 | 810 | 698 | 718 | 594 | 572 | 571 | 511 | 508 | 514 | 1213 | 780 | 515 | 288 | 286 | 296 | 994 | 1109 | 1109 | 940 | 940 | 747 | 749 | 713 | 605 | | | |
| 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 | CUFG | 34 | 34 | 34 | 28 | 34 | 36 | 35 | 34 | 36 | 36 | 35 | 35 | 35 | 34 | 35 | 36 | 36 | 35 | 35 | 35 | 35 | 33 | 33 | 33 | 33 | 33 | 32 | 33 | 32 | 33 | 33 | 34 | 34 | 34 | 34 | 36 | 31 | 33 | 34 | 34 | 34 | 34 | 36 | 35 | 34 | 35 | 33 | 32 | | | |
| PCUF | CUFK | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | | |
| Total Co-Gen | | 49 | 49 | 49 | 43 | 49 | 51 | 50 | 49 | 51 | 51 | 50 | 50 | 50 | 50 | 49 | 50 | 51 | 51 | 50 | 50 | 50 | 50 | 48 | 48 | 48 | 48 | 48 | 47 | 48 | 47 | 48 | 48 | 49 | 49 | 49 | 49 | 51 | 46 | 48 | 49 | 49 | 49 | 49 | 51 | 50 | 49 | 50 | 48 | 47 | | |
| Total Gen | | 14683 | 14216 | 13871 | 13697 | 13399 | 13165 | 13081 | 12955 | 12807 | 12690 | 12577 | 12666 | 12890 | 13153 | 12866 | 12876 | 13260 | 14263 | 14780 | 15450 | 15814 | 16199 | 16389 | 16609 | 16387 | 16099 | 15987 | 15945 | 16095 | 16449 | 16621 | 16686 | 16647 | 16760 | 16412 | 15937 | 15531 | 15297 | 15488 | 16266 | 16210 | 16254 | 15896 | 15793 | 15369 | 15136 | 14990 | 14743 | | | |
| TIE-EGAT | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | | 29 | 31 | 31 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 31 | 31 | 30 | 30 | 30 | 30 | 31 | 31 | 30 | 30 | 30 | 30 | 29 | 29 | 31 | 31 | 30 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 30 | 29 | 31 | 32 | 30 | | | |
| TIE-PLTG | | -19 | -11 | -54 | -38 | -35 | -50 | -15 | -28 | -3 | 4 | 6 | -42 | -25 | 17 | 0 | 20 | -1 | -8 | -36 | 19 | -23 | -25 | -26 | 1 | -16 | -8 | 42 | 20 | 3 | 15 | 19 | -14 | 23 | 79 | 43 | 61 | 30 | -2 | 12 | -14 | -31 | -20 | -23 | 19 | 33 | -26 | 27 | 73 | | | |
| Interconnection | | 10 | 20 | -23 | -8 | -4 | -20 | 15 | 2 | 27 | 34 | 36 | -12 | 5 | 46 | 30 | 51 | 29 | 23 | -5 | 50 | 8 | 5 | 4 | 31 | 14 | 22 | 73 | 49 | 32 | 45 | 50 | 16 | 54 | 109 | 74 | 92 | 60 | 29 | 43 | 17 | 0 | 11 | 9 | 49 | 62 | 5 | 59 | 103 | | | |
| System Total | | 14673 | 14196 | 13894 | 13705 | 13403 | 13185 | 13066 | 12953 | 12780 | 12656 | 12541 | 12678 | 12885 | 13107 | 12836 | 12825 | 13231 | 14240 | 14785 | 15400 | 15806 | 16194 | 16385 | 16578 | 16373 | 16077 | 15914 | 15896 | 16063 | 16404 | 16571 | 16670 | 16593 | 16651 | 16338 | 15845 | 15471 | 15268 | 15445 | 16249 | 16210 | 16243 | 15887 | 15744 | 15307 | 15131 | 14931 | 14640 | | | |
| SRev ST-Coal | | 91 | 66 | 78 | 138 | 156 | 168 | 138 | 66 | 113 | 48 | 65 | 79 | 61 | 72 | 61 | 77 | 71 | 106 | 62 | 59 | 94 | 56 | 50 | 41 | 121 | 110 | 111 | 99 | 125 | 108 | 113 | 109 | 105 | 106 | 107 | 104 | 88 | 94 | 121 | 97 | 114 | 150 | 100 | 100 | 101 | 143 | 104 | 109 | | | |
| SRev 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 | 0 | 0 | 0 | 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 CCGT-Gas | | 871 | 1141 | 1365 | 1249 | 1417 | 1545 | 1698 | 1896 | 2086 | 2259 | 2379 | 2265 | 2059 | 1765 | 2062 | 2036 | 1657 | 706 | 559 | 675 | 556 | 555 | 441 | 310 | 666 | 853 | 984 | 913 | 806 | 667 | 421 | 357 | 407 | 486 | 420 | 633 | 840 | 767 | 561 | 480 | 634 | 554 | 795 | 540 | 694 | 698 | 593 | 726 | | | |
| 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 | 0 | 0 |
| SRev Co-Gen | | -9 | -9 | -9 | -3 | -9 | -11 | -10 | -9 | -11 | -11 | -10 | -10 | -10 | -10 | -9 | -10 | -11 | -11 | -10 | -10 | -10 | -8 | -8 | -8 | -8 | -8 | -7 | -8 | -7 | -8 | -8 | -9 | -9 | -9 | -9 | -9 | -9 | -11 | -6 | -8 | -9 | -9 | -11 | -10 | -9 | -10 | -8 | -7 | | | |
| Syncon | | 912 | 912 | 761 | 761 | 912 | 912 | 912 | 912 | 912 | 912 | 912 | 761 | 761 | 912 | 912 | 912 | 912 | 912 | 761 | 338 | 489 | 302 | 302 | 302 | 302 | 489 | 338 | 338 | 489 | 489 | 489 | 489 | 489 | 0 | 187 | 489 | 660 | 660 | 660 | 302 | 302 | 302 | 302 | 302 | 387 | 387 | 236 | 322 | | | |
| Hydro | | 103 | 103 | 233 | 232 | 103 | 106 | 106 | 105 | 108 | 106 | 232 | 243 | 243 | 112 | 112 | 113 | 115 | 113 | 242 | 579 | 438 | 355 | 363 | 623 | 376 | 151 | 282 | 406 | 277 | 278 | 338 | 341 | 335 | 275 | 371 | 334 | 230 | 232 | 222 | 142 | 427 | 427 | 296 | 296 | 244 | 242 | 429 | 351 | | | |
| S.Reserve Total | | 1968 | 2213 | 2428 | 2377 | 2579 | 2720 | 2844 | 2970 | 3208 | 3314 | 3427 | 3338 | 3114 | 2851 | 3138 | 3128 | 2744 | 1826 | 1614 | 1641 | 1567 | 1258 | 1148 | 1268 | 1457 | 1595 | 1707 | 1749 | 1689 | 1535 | 1353 | 1288 | 1327 | 858 | 1076 | 1551 | 1807 | 1747 | 1556 | 1012 | 1468 | 1424 | 1482 | 1228 | 1417 | 1460 | 1354 | 1501 | | | |