

Availability at Daily Maximum Demand Hour

| | |
|---------------------|------------------|
| ST-Coal | 0 MW |
| ST-Gas | 0 MW |
| ST-Oil | 0 MW |
| Hydro | 2,472 MW |
| Distillate | 0 MW |
| Total TNB | 2,472 MW |
| Total IPP | 17,146 MW |
| Total Co-Gen | 0 MW |
| Total System | 22,318 MW |

Generation Mix

| Type | MWh | Percentage |
|-------------------------|----------------|-----------------|
| Hydro | 12,759 | 3.50 % |
| Gas | 34,874 | 9.55 % |
| Total TNB | 47,633 | 13.05 % |
| ST-Coal | 234,291 | 64.19 % |
| LSS | 2,098 | 0.57 % |
| Gas | 79,907 | 21.89 % |
| Total IPP | 316,296 | 86.66 % |
| Co-Gen | 637 | 0.17 % |
| Total Co-Gen | 637 | 0.17 % |
| Total Generation | 364,566 | 99.88 % |
| PLTG | 272 | 0.07 % |
| HVDC | -703 | -0.19 % |
| Interconnection | -431 | -0.12 % |
| Net Energy | 364,997 | 100.00 % |

Maximum Demand Record

| | |
|-----------------|-------------|
| Date: 4/18/2019 | 18,566 MW |
| Date: 4/18/2019 | 391,845 MWH |

Set On Bus, TNB, IPP And MD

| | |
|-------------------------------|---------------|
| Daily Maximum Demand Hour at: | 16:30:00 Hour |
| Total Set On Bus | 18,530 MW |
| TNB Generation | 2,685 MW |
| IPP Generation | 14,450 MW |
| Spinning Reserve | 1,361 MW |
| Maximum Demand | 17,233 MW |
| Net Energy | 364,997 MWH |
| Load Factor | 88.25 % |

Fuel Cost

| | |
|---------------|------------------|
| Total Cost: | 59,021,610.96 RM |
| Cost per Unit | 16.19 cents/kWH |

Average Spinning Reserve During Peak Hour

| Type | MW |
|--------------|--------------|
| GT | 364 |
| Hydro | 464 |
| Syncon | 633 |
| Thermal | 172 |
| Total | 1,633 |

| Time | Weather | Temperature |
|-----------|---------|-------------|
| Afternoon | Hot | 33 |
| Morning | Sunny | 27 |

Gas Usage

| Station | (mmscfd) |
|------------------|------------|
| GLGR | 50 |
| TJGS | 198 |
| Total TNB | 249 |
| CBPS | 50 |
| KLPP | 83 |
| NPRI | 72 |
| PGLA | 108 |
| PLPS | 80 |
| SGRI | 71 |
| YPKA | 23 |
| Total IPP | 488 |
| Total Gas | 736 |

Alternate Fuel Usage

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

| | |
|---------------------------|------------|
| Total Gas Required | 736 |
|---------------------------|------------|

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 | 14437 | 13641 | 13276 | 12917 | 12623 | 12439 | 12987 | 13099 | 13479 | 14976 | 15862 | 16378 | 16371 | 15948 | 16684 | 17000 | 17108 | 16965 | 15986 | 15694 | 16834 | 16755 | 16276 | 15985 |

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 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|---|
| Total Co-Gen | | 11 | 9 | 9 | 9 | 11 | 8 | 9 | 9 | 10 | 7 | 8 | 9 | 8 | 9 | 9 | 10 | 12 | 9 | 30 | 59 | 62 | 59 | 61 | 61 | 59 | 60 | 8 | 9 | 11 | 15 | 35 | 33 | 31 | 34 | 36 | 35 | 9 | 9 | 10 | 61 | 59 | 62 | 58 | 58 | 55 | 9 | 11 | 10 | | | |
| Total Gen | | 14433 | 13975 | 13610 | 13441 | 13241 | 12960 | 12903 | 12713 | 12619 | 12478 | 12436 | 12656 | 13000 | 13217 | 13090 | 13126 | 13424 | 14435 | 14958 | 15435 | 15786 | 16144 | 16370 | 16504 | 16324 | 16089 | 15922 | 16242 | 16659 | 16904 | 17029 | 17040 | 17099 | 17169 | 16940 | 16542 | 16010 | 15670 | 15701 | 16382 | 16846 | 16860 | 16773 | 16666 | 16197 | 16250 | 15948 | 15522 | | | |
| 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 | 0 |
| TIE-HVDC | | -29 | -30 | -30 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -30 | -30 | -29 | -29 | -30 | -30 | -30 | -30 | -30 | -30 | -30 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -30 | |
| TIE-PLTG | | 33 | 14 | 7 | 32 | 2 | 39 | 23 | 28 | 25 | 49 | 25 | -12 | 43 | 50 | 20 | 47 | -25 | 36 | 12 | -4 | -46 | -47 | 21 | -26 | -18 | -67 | 3 | -60 | 4 | 22 | 58 | 37 | 20 | -34 | 5 | 13 | 54 | 17 | 37 | 35 | 41 | -12 | 47 | 18 | -43 | -17 | -1 | 40 | | | |
| Interconnection | | 4 | -16 | -23 | 3 | -27 | 10 | -6 | -2 | -4 | 21 | -3 | -42 | 13 | 21 | -9 | 17 | -55 | 7 | -18 | -34 | -76 | -76 | -8 | -55 | -47 | -96 | -26 | -89 | -25 | -8 | 29 | 9 | -9 | -64 | -25 | -16 | 24 | -13 | 7 | 6 | 12 | -40 | 18 | -11 | -72 | -46 | -30 | 10 | | | |
| System Total | | 14437 | 13999 | 13641 | 13446 | 13276 | 12958 | 12917 | 12715 | 12623 | 12457 | 12439 | 12698 | 12987 | 13196 | 13099 | 13109 | 13479 | 14428 | 14976 | 15469 | 15862 | 16220 | 16378 | 16559 | 16371 | 16185 | 15948 | 16331 | 16684 | 16912 | 17000 | 17031 | 17108 | 17233 | 16965 | 16558 | 15986 | 15683 | 15694 | 16376 | 16834 | 16900 | 16755 | 16684 | 16276 | 16303 | 15985 | 15519 | | | |
| SRev ST-Coal | | 290 | 405 | 514 | 569 | 586 | 571 | 565 | 673 | 653 | 709 | 264 | 252 | 250 | 241 | 250 | 682 | 660 | 566 | 368 | 226 | 146 | 156 | 162 | 168 | 157 | 150 | 162 | 157 | 160 | 163 | 159 | 151 | 166 | 151 | 161 | 156 | 145 | 159 | 159 | 153 | 158 | 160 | 158 | 156 | 156 | 143 | 157 | 160 | | | |
| 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 | | 1311 | 1223 | 1070 | 1071 | 1283 | 1535 | 1627 | 1634 | 1643 | 1663 | 1585 | 1394 | 1356 | 1156 | 1271 | 1454 | 1344 | 646 | 878 | 712 | 508 | 260 | 378 | 447 | 405 | 454 | 479 | 402 | 308 | 187 | 304 | 256 | 262 | 258 | 291 | 358 | 512 | 685 | 663 | 469 | 253 | 247 | 321 | 239 | 415 | 294 | 490 | 745 | | | |
| 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 LSS | | 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 | | 71 | 73 | 73 | 73 | 71 | 74 | 73 | 73 | 72 | 75 | 74 | 73 | 74 | 73 | 73 | 72 | 70 | 73 | 52 | 23 | 20 | 23 | 21 | 21 | 23 | 22 | 74 | 73 | 71 | 67 | 47 | 49 | 51 | 48 | 46 | 47 | 73 | 73 | 72 | 21 | 23 | 20 | 24 | 24 | 27 | 73 | 71 | 72 | | | |
| Syncon | | 1267 | 1267 | 1267 | 1267 | 1116 | 1267 | 1116 | 1267 | 1267 | 1267 | 1116 | 1166 | 1166 | 1166 | 1166 | 1166 | 1166 | 1166 | 801 | 1103 | 864 | 713 | 713 | 814 | 1116 | 1267 | 1116 | 627 | 528 | 252 | 353 | 353 | 353 | 440 | 814 | 814 | 1267 | 1267 | 591 | 440 | 440 | 440 | 814 | 814 | 814 | 965 | 1116 | | | | |
| Hydro | | 141 | 138 | 139 | 138 | 266 | 143 | 273 | 141 | 140 | 143 | 137 | 263 | 96 | 95 | 96 | 102 | 104 | 99 | 130 | 512 | 234 | 300 | 399 | 399 | 480 | 299 | 171 | 222 | 482 | 561 | 722 | 659 | 529 | 551 | 522 | 402 | 614 | 181 | 157 | 516 | 511 | 504 | 515 | 333 | 473 | 458 | 401 | 317 | | | |
| S.Reserve Total | | 3180 | 3206 | 3163 | 3218 | 3422 | 3690 | 3754 | 3888 | 3875 | 3957 | 3427 | 3148 | 2942 | 2731 | 2856 | 3476 | 3344 | 2550 | 2594 | 2274 | 2011 | 1603 | 1673 | 1748 | 1879 | 2041 | 2153 | 1970 | 1648 | 1506 | 1484 | 1468 | 1361 | 1361 | 1460 | 1777 | 2158 | 2365 | 2318 | 1750 | 1385 | 1371 | 1458 | 1566 | 1885 | 1782 | 2084 | 2410 | | | |