

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 | 16,876 MW |
| Total Co-Gen | 0 MW |
| Total System | 22,048 MW |

Generation Mix

| Type | MWh | Percentage |
|-------------------------|----------------|-----------------|
| Hydro | 12,417 | 3.28 % |
| Gas | 35,362 | 9.33 % |
| Total TNB | 47,779 | 12.61 % |
| ST-Coal | 224,070 | 59.15 % |
| LSS | 2,943 | 0.78 % |
| Gas | 104,592 | 27.61 % |
| Total IPP | 331,605 | 87.53 % |
| Co-Gen | 539 | 0.14 % |
| Total Co-Gen | 539 | 0.14 % |
| Total Generation | 379,923 | 100.28 % |
| PLTG | 351 | 0.09 % |
| HVDC | 728 | 0.19 % |
| Interconnection | 1,079 | 0.28 % |
| Net Energy | 378,844 | 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 | 19,510 MW |
| TNB Generation | 2,606 MW |
| IPP Generation | 15,304 MW |
| Spinning Reserve | 1,565 MW |
| Maximum Demand | 17,914 MW |
| Net Energy | 378,844 MWH |
| Load Factor | 88.12 % |

Fuel Cost

| | |
|---------------|------------------|
| Total Cost: | 63,140,716.13 RM |
| Cost per Unit | 16.62 cents/kWH |

Average Spinning Reserve During Peak Hour

| Type | MW |
|--------------|--------------|
| GT | 443 |
| Hydro | 454 |
| Syncon | 649 |
| Thermal | 331 |
| Total | 1,877 |

Time Weather Temperature

| | | |
|-----------|-------|----|
| Afternoon | Hot | 32 |
| Morning | Sunny | 28 |

Gas Usage

| Station | (mmscfd) |
|---------------------------|------------|
| GLGR | 50 |
| TJGS | 202 |
| Total TNB | 252 |
| CBPS | 51 |
| KLPP | 95 |
| NPRI | 141 |
| PGLA | 106 |
| PLPS | 88 |
| SGRI | 134 |
| YPKA | 46 |
| Total IPP | 660 |
| Total Gas | 912 |
| Total Gas Required | 912 |

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 | 15551 | 14721 | 14192 | 13740 | 13333 | 13219 | 13357 | 13402 | 13689 | 15410 | 16367 | 17002 | 16884 | 16564 | 17439 | 17793 | 17907 | 17648 | 16435 | 16029 | 17288 | 17387 | 16995 | 16430 |

Daily MW Generation on Tuesday

| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|---|
| KKLS | LSS1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 14 | 21 | 26 | 32 | 35 | 40 | 43 | 45 | 46 | 37 | 46 | 20 | 26 | 19 | 31 | 11 | 19 | 6 | 5 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| MCLS | LSS1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 18 | 13 | 38 | 42 | 36 | 50 | 50 | 48 | 40 | 38 | 38 | 26 | 33 | 48 | 43 | 37 | 30 | 23 | 15 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SPLS | LSS1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 11 | 20 | 29 | 38 | 44 | 51 | 54 | 57 | 57 | 57 | 57 | 21 | 29 | 42 | 43 | 54 | 23 | 13 | 12 | 8 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSLS | LSS1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 9 | 15 | 21 | 27 | 33 | 36 | 39 | 42 | 43 | 44 | 44 | 44 | 43 | 41 | 29 | 28 | 21 | 18 | 8 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total LSS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 64 | 145 | 191 | 294 | 328 | 365 | 392 | 405 | 435 | 407 | 379 | 421 | 333 | 346 | 366 | 291 | 227 | 187 | 127 | 95 | 51 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PCUF | CUFG | 4 | 4 | 5 | 4 | 3 | 5 | 5 | 5 | 6 | 5 | 5 | 3 | 6 | 4 | 6 | 5 | 4 | 4 | 29 | 28 | 28 | 30 | 31 | 29 | 10 | 28 | 28 | 27 | 26 | 29 | 29 | 29 | 29 | 30 | 28 | 29 | 5 | 6 | 4 | 5 | 26 | 27 | 29 | 29 | 27 | 27 | 31 | 4 | | | | |
| PCUF | CUFK | 4 | 6 | 9 | 2 | 10 | 5 | 9 | 11 | 8 | 6 | 11 | 8 | 8 | 7 | 9 | 5 | 7 | 6 | 3 | 5 | 3 | 3 | 3 | 4 | 7 | 4 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 6 | 7 | 6 | 8 | 9 | 6 | 6 | 5 | 6 | 2 | 4 | 4 | | | |
| Total Co-Gen | | 8 | 10 | 14 | 6 | 13 | 10 | 14 | 16 | 14 | 11 | 16 | 11 | 14 | 11 | 15 | 10 | 11 | 10 | 32 | 33 | 31 | 33 | 34 | 33 | 17 | 32 | 33 | 32 | 31 | 33 | 33 | 33 | 33 | 35 | 33 | 34 | 11 | 13 | 10 | 13 | 35 | 33 | 35 | 34 | 33 | 29 | 35 | 8 | | | | |
| Total Gen | | 15602 | 15111 | 14741 | 14455 | 14256 | 13985 | 13748 | 13561 | 13376 | 13265 | 13231 | 13237 | 13372 | 13620 | 13429 | 13420 | 13709 | 14720 | 15439 | 15909 | 16405 | 16683 | 16987 | 17131 | 16876 | 16701 | 16648 | 16999 | 17481 | 17662 | 17819 | 17871 | 17951 | 17945 | 17723 | 17064 | 16491 | 16129 | 16087 | 16883 | 17326 | 17411 | 17427 | 17269 | 17015 | 16779 | 16473 | 16144 | | | | |
| 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 | | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 30 | 30 | 30 | 30 | 30 | 31 | 31 | 30 | 30 | 31 | 31 | 30 | 30 | 31 | 31 | 29 | 29 | 30 | 30 | 30 | 30 | 31 | 31 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 32 | 29 | 31 | 30 | 30 | 30 | 30 | |
| TIE-PLTG | | 27 | 37 | -4 | 56 | 41 | 31 | -16 | 18 | 20 | 54 | -12 | 49 | -7 | 25 | 4 | 10 | -3 | 12 | 5 | -11 | 15 | -31 | -39 | 8 | -30 | -16 | 61 | -8 | 19 | 21 | 2 | 3 | 21 | 8 | 52 | 63 | 32 | 15 | 39 | 4 | 19 | 37 | 21 | 19 | 0 | 13 | 24 | -6 | | | | |
| Interconnection | | 58 | 68 | 27 | 86 | 71 | 62 | 15 | 49 | 50 | 84 | 19 | 79 | 22 | 55 | 34 | 41 | 27 | 42 | 36 | 19 | 45 | -1 | -8 | 39 | -1 | 14 | 91 | 23 | 49 | 51 | 33 | 34 | 51 | 38 | 82 | 93 | 63 | 46 | 69 | 35 | 49 | 68 | 50 | 50 | 30 | 43 | 54 | 24 | | | | |
| System Total | | 15551 | 15050 | 14721 | 14376 | 14192 | 13930 | 13740 | 13519 | 13333 | 13188 | 13219 | 13165 | 13357 | 13572 | 13402 | 13386 | 13689 | 14685 | 15410 | 15897 | 16367 | 16691 | 17002 | 17099 | 16884 | 16694 | 16564 | 16983 | 17439 | 17618 | 17793 | 17844 | 17907 | 17914 | 17648 | 16978 | 16435 | 16090 | 16029 | 16859 | 17288 | 17354 | 17387 | 17229 | 16995 | 16746 | 16430 | 16131 | | | | |
| SRev ST-Coal | | 329 | 311 | 432 | 473 | 565 | 566 | 548 | 559 | 548 | 567 | 560 | 551 | 554 | 538 | 550 | 546 | 570 | 514 | 425 | 322 | 315 | 321 | 333 | 327 | 328 | 323 | 328 | 330 | 329 | 329 | 325 | 326 | 335 | 325 | 329 | 338 | 326 | 326 | 336 | 323 | 323 | 319 | 324 | 325 | 334 | 338 | 335 | 324 | | | | |
| 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 | 0 |
| SRev CCGT-Gas | | 1040 | 725 | 885 | 1116 | 927 | 1154 | 1408 | 1580 | 1777 | 1890 | 1945 | 1938 | 1810 | 1552 | 1721 | 1722 | 1433 | 543 | 784 | 890 | 720 | 478 | 472 | 436 | 690 | 934 | 936 | 851 | 360 | 343 | 383 | 424 | 287 | 292 | 289 | 641 | 999 | 1305 | 1289 | 598 | 367 | 321 | 301 | 277 | 316 | 669 | 864 | 317 | | | | |
| 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 | 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 | 0 |
| SRev Co-Gen | | 12 | 10 | 6 | 14 | 7 | 10 | 6 | 4 | 6 | 9 | 4 | 9 | 6 | 9 | 5 | 10 | 9 | 10 | -12 | -13 | -11 | -13 | -14 | -13 | 3 | -12 | -13 | -12 | -11 | -13 | -13 | -13 | -13 | -15 | -13 | -14 | 9 | 7 | 10 | 7 | -15 | -13 | -15 | -14 | -13 | -9 | -15 | 12 | | | | |
| Syncon | | 1204 | 1204 | 1204 | 1204 | 1204 | 1204 | 1204 | 1204 | 1204 | 1204 | 1204 | 1204 | 1053 | 1204 | 1225 | 1355 | 1355 | 1254 | 1254 | 1079 | 1079 | 892 | 892 | 892 | 1079 | 1079 | 1079 | 842 | 540 | 353 | 353 | 353 | 353 | 353 | 540 | 727 | 966 | 1117 | 1117 | 878 | 353 | 126 | 126 | 439 | 626 | 439 | 540 | 779 | | | | |
| Hydro | | 189 | 180 | 142 | 147 | 135 | 149 | 139 | 136 | 138 | 141 | 136 | 135 | 134 | 271 | 145 | 147 | 146 | 145 | 108 | 96 | 132 | 129 | 187 | 188 | 186 | 195 | 199 | 233 | 322 | 578 | 663 | 587 | 662 | 611 | 599 | 655 | 479 | 351 | 352 | 494 | 676 | 784 | 786 | 650 | 688 | 574 | 501 | 274 | | | | |
| S.Reserve Total | | 2774 | 2430 | 2669 | 2954 | 2838 | 3083 | 3305 | 3483 | 3673 | 3811 | 3849 | 3837 | 3708 | 3423 | 3625 | 3650 | 3513 | 2567 | 2559 | 2549 | 2235 | 1994 | 1870 | 1830 | 2099 | 2519 | 2529 | 2481 | 1842 | 1777 | 1711 | 1677 | 1624 | 1566 | 1744 | 2347 | 2804 | 3131 | 3104 | 2300 | 1704 | 1537 | 1522 | 1677 | 1951 | 2011 | 2225 | 1706 | | | | |