

Availability at Daily Maximum Demand Hour

| | |
|---------------------|------------------|
| ST-Coal | 0 MW |
| ST-Gas | 0 MW |
| ST-Oil | 0 MW |
| Hydro | 2,360 MW |
| Distillate | 0 MW |
| Total TNB | 2,360 MW |
| Total IPP | 19,391 MW |
| Total Co-Gen | 0 MW |
| Total System | 25,753 MW |

Generation Mix

| Type | MWh | Percentage |
|-------------------------|----------------|-----------------|
| Hydro | 15,586 | 5.51 % |
| Gas | 43,543 | 15.40 % |
| Total TNB | 59,129 | 20.91 % |
| ST-Coal | 138,346 | 48.91 % |
| LSS | 3,559 | 1.26 % |
| Gas | 81,564 | 28.84 % |
| Total IPP | 223,469 | 79.01 % |
| Co-Gen | 681 | 0.24 % |
| Total Co-Gen | 681 | 0.24 % |
| Total Generation | 283,279 | 100.16 % |
| PLTG | -224 | -0.08 % |
| HVDC | 665 | 0.24 % |
| Interconnection | 441 | 0.16 % |
| Net Energy | 282,838 | 100.00 % |

Maximum Demand Record

| | |
|-----------------|-------------|
| Date: 5/24/2022 | 19,183 MW |
| Date: 5/24/2022 | 398,523 MWH |

Set On Bus, TNB, IPP And MD

| | |
|-------------------------------|---------------|
| Daily Maximum Demand Hour at: | 20:00:00 Hour |
| Total Set On Bus | 16,197 MW |
| TNB Generation | 3,232 MW |
| IPP Generation | 10,202 MW |
| Spinning Reserve | 2,735 MW |
| Maximum Demand | 13,457 MW |
| Net Energy | 282,838 MWH |
| Load Factor | 87.57 % |

Fuel Cost

| | |
|---------------|------------------|
| Total Cost: | 81,200,544.23 RM |
| Cost per Unit | 28.66 cents/kWH |

Average Spinning Reserve During Peak Hour

| Type | MW |
|--------------|--------------|
| GT | 1,587 |
| Hydro | 966 |
| Syncon | 481 |
| Thermal | 1,069 |
| Total | 4,103 |

Time Weather Temperature

| | | |
|-----------|-------|----|
| Afternoon | Rainy | 28 |
| Morning | Rainy | 24 |

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 | 12276 | 11875 | 11395 | 11131 | 10710 | 10665 | 10784 | 10750 | 10598 | 11097 | 11591 | 11869 | 11835 | 11720 | 11878 | 11886 | 11974 | 11937 | 11964 | 12557 | 13457 | 13254 | 12777 | 12466 |

Prepared By: -Select Name-

Checked By: -Select Name-

(Ir. Shanmugam Thoppalan)
Printed on: Tuesday, February 7, 2023 8:14:55 AM Head
Grid System Operator

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 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|----|
| Total Gen | | 12271 | 11994 | 11788 | 11631 | 11390 | 11293 | 11122 | 10945 | 10754 | 10739 | 10688 | 10659 | 10782 | 10878 | 10786 | 10726 | 10661 | 10942 | 11158 | 11461 | 11683 | 11922 | 11958 | 12051 | 11926 | 11881 | 11787 | 11824 | 11906 | 11832 | 11886 | 11891 | 11987 | 11950 | 11924 | 11881 | 11974 | 12100 | 12553 | 13359 | 13462 | 13379 | 13241 | 13089 | 12798 | 12667 | 12498 | 12283 | | | |
| 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 | | 30 | 30 | 30 | 30 | 30 | 30 | 31 | 31 | 29 | 29 | 29 | 29 | 30 | 30 | 1 | 0 | 0 | 0 | 31 | 31 | 30 | 30 | 31 | 31 | 30 | 30 | 29 | 29 | 30 | 30 | 31 | 31 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 31 | 29 | 32 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| TIE-PLTG | | -35 | -73 | -117 | -39 | -36 | -46 | -38 | -29 | 13 | -16 | -6 | -28 | -31 | 5 | 6 | 3 | 63 | 55 | 61 | 24 | 61 | 51 | 59 | 79 | 60 | 4 | 38 | -3 | -1 | -13 | -29 | -16 | -18 | -25 | -44 | -35 | -20 | -28 | -35 | -43 | -24 | -26 | -44 | -33 | -11 | -34 | 0 | -53 | | | |
| Interconnection | | -5 | -43 | -87 | -9 | -5 | -16 | -9 | 1 | 44 | 13 | 23 | 1 | -2 | 35 | 36 | 4 | 63 | 55 | 61 | 55 | 92 | 81 | 89 | 109 | 91 | 33 | 67 | 27 | 28 | 17 | 0 | 15 | 13 | 5 | -13 | -5 | 10 | 2 | -4 | -11 | 5 | 5 | -13 | -2 | 21 | -3 | 32 | -22 | | | |
| System Total | | 12276 | 12037 | 11875 | 11640 | 11395 | 11309 | 11131 | 10944 | 10710 | 10726 | 10665 | 10658 | 10784 | 10843 | 10750 | 10722 | 10598 | 10887 | 11097 | 11406 | 11591 | 11841 | 11869 | 11942 | 11835 | 11848 | 11720 | 11797 | 11878 | 11815 | 11886 | 11876 | 11974 | 11945 | 11937 | 11886 | 11964 | 12098 | 12557 | 13370 | 13457 | 13374 | 13254 | 13091 | 12777 | 12670 | 12466 | 12305 | | | |
| SRev ST-Coal | | 1211 | 1212 | 1211 | 1214 | 1212 | 1212 | 1210 | 1212 | 1213 | 1212 | 1204 | 1209 | 1210 | 1201 | 1213 | 1217 | 1207 | 1203 | 1132 | 1127 | 1132 | 1071 | 1058 | 1055 | 1057 | 1052 | 1057 | 1054 | 1051 | 1058 | 1068 | 1051 | 1055 | 1057 | 1059 | 1052 | 1056 | 1050 | 1052 | 1057 | 1049 | 1062 | 1064 | 1059 | 1057 | 1055 | 1057 | 1056 | | | |
| 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 | | 651 | 714 | 759 | 855 | 1074 | 1135 | 1360 | 1486 | 1891 | 1961 | 2017 | 2051 | 1944 | 1834 | 1922 | 1983 | 2057 | 2175 | 2241 | 2130 | 1911 | 1932 | 1882 | 1916 | 1990 | 2014 | 2116 | 2052 | 1997 | 2044 | 1925 | 1881 | 1771 | 1688 | 1589 | 1614 | 1479 | 1301 | 822 | 389 | 416 | 491 | 636 | 775 | 943 | 1086 | 1241 | 965 | | | |
| 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 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Syncon | | 640 | 640 | 739 | 827 | 840 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 777 | 928 | 928 | 928 | 840 | 752 | 601 | 414 | 502 | 502 | 502 | 590 | 590 | 590 | 590 | 590 | 502 | 502 | 590 | 502 | 590 | 502 | 590 | 590 | 590 | 502 | 590 | 502 | 590 | 302 | 302 | 302 | 214 | 302 | 453 | 453 | 365 | 739 | |
| Hydro | | 849 | 853 | 719 | 668 | 587 | 625 | 568 | 626 | 627 | 624 | 626 | 628 | 756 | 625 | 626 | 625 | 626 | 819 | 920 | 1009 | 951 | 958 | 905 | 905 | 908 | 905 | 907 | 905 | 908 | 903 | 906 | 941 | 969 | 970 | 969 | 966 | 966 | 964 | 947 | 967 | 968 | 965 | 964 | 969 | 941 | 928 | 950 | 718 | | | |
| S.Reserve Total | | 3351 | 3419 | 3515 | 3564 | 3800 | 3900 | 4066 | 4252 | 4659 | 4725 | 4775 | 4816 | 4687 | 4588 | 4689 | 4753 | 4817 | 4949 | 4894 | 4680 | 4496 | 4463 | 4434 | 4466 | 4545 | 4561 | 4670 | 4601 | 4545 | 4594 | 4489 | 4462 | 4385 | 4305 | 4207 | 4221 | 4091 | 3904 | 3411 | 2715 | 2735 | 2820 | 2965 | 3105 | 3394 | 3522 | 3700 | 3565 | | | |