

### Availability at Daily Maximum Demand Hour

|                     |                  |
|---------------------|------------------|
| ST-Coal             | 0 MW             |
| ST-Gas              | 0 MW             |
| ST-Oil              | 0 MW             |
| Hydro               | 2,522 MW         |
| Distillate          | 0 MW             |
| <b>Total TNB</b>    | <b>2,522 MW</b>  |
| <b>Total IPP</b>    | <b>14,987 MW</b> |
| Total Co-Gen        | 0 MW             |
| <b>Total System</b> | <b>20,332 MW</b> |

### Generation Mix

| Type                    | MWh            | Percentage      |
|-------------------------|----------------|-----------------|
| Hydro                   | 21,580         | 7.47 %          |
| Gas                     | 23,839         | 8.26 %          |
| <b>Total TNB</b>        | <b>45,419</b>  | <b>15.73 %</b>  |
| ST-Coal                 | 183,269        | 63.48 %         |
| LSS                     | 758            | 0.26 %          |
| Gas                     | 58,559         | 20.28 %         |
| <b>Total IPP</b>        | <b>242,586</b> | <b>84.03 %</b>  |
| Co-Gen                  | 160            | 0.06 %          |
| <b>Total Co-Gen</b>     | <b>160</b>     | <b>0.06 %</b>   |
| <b>Total Generation</b> | <b>288,165</b> | <b>99.81 %</b>  |
| PLTG                    | -1,257         | -0.44 %         |
| HVDC                    | 720            | 0.25 %          |
| <b>Interconnection</b>  | <b>-537</b>    | <b>-0.19 %</b>  |
| <b>Net Energy</b>       | <b>288,702</b> | <b>100.00 %</b> |

### 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: | 20:00:00 Hour |
| Total Set On Bus              | 14,688 MW     |
| TNB Generation                | 2,846 MW      |
| IPP Generation                | 10,580 MW     |
| Spinning Reserve              | 1,255 MW      |
| Maximum Demand                | 13,478 MW     |
| Net Energy                    | 288,702 MWH   |
| Load Factor                   | 89.25 %       |

### Fuel Cost

|               |                  |
|---------------|------------------|
| Total Cost:   | 39,837,009.73 RM |
| Cost per Unit | 13.79 cents/kWH  |

### Average Spinning Reserve During Peak Hour

| Type         | MW           |
|--------------|--------------|
| GT           | 620          |
| Hydro        | 534          |
| Syncon       | 608          |
| Thermal      | 334          |
| <b>Total</b> | <b>2,096</b> |

### Time Weather Temperature

| Time      | Weather | Temperature |
|-----------|---------|-------------|
| Afternoon | Rainy   | 26          |
| Morning   | Rainy   | 23          |

### Gas Usage

| Station          | (mmscfd)   |
|------------------|------------|
| GLGR             | 46         |
| TJGS             | 132        |
| <b>Total TNB</b> | <b>178</b> |
| CBPS             | 47         |
| NPRI             | 151        |
| PGLA             | 48         |
| PLPS             | 36         |
| SKSP             | 1          |
| YPKA             | 20         |
| <b>Total IPP</b> | <b>303</b> |
| <b>Total Gas</b> | <b>481</b> |

**Total Gas Required 481**

### Alternate Fuel Usage

| Station      | (mmscfd) |
|--------------|----------|
| <b>Total</b> | <b>0</b> |

### 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 | 12682 | 12157 | 11720 | 11524 | 11316 | 11151 | 11135 | 11137 | 10961 | 11393 | 11974 | 12283 | 12240 | 12039 | 12096 | 12107 | 12101 | 11949 | 12050 | 12741 | 13478 | 13264 | 12820 | 12372 |





### 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 Co-Gen    |      | 8     | 6     | 7     | 6     | 4     | 8     | 7     | 6     | 9     | 5     | 7     | 7     | 7     | 6     | 6     | 7     | 7     | 10    | 5     | 6     | 9     | 7     | 6     | 5     | 7     | 5     | 11    | 6     | 6     | 4     | 7     | 9     | 4     | 9     | 5     | 7     | 5     | 6     | 8     | 6     | 7     | 8     | 7     | 6     | 8     | 8     | 9     | 3     |    |    |
| Total Gen       |      | 12644 | 12419 | 12102 | 11983 | 11722 | 11600 | 11490 | 11381 | 11236 | 11141 | 11113 | 11185 | 11075 | 11176 | 11113 | 10985 | 10999 | 11235 | 11372 | 11585 | 11953 | 12191 | 12300 | 12359 | 12277 | 12075 | 11966 | 12098 | 12025 | 12130 | 12070 | 11975 | 12054 | 12074 | 11950 | 11895 | 12035 | 12303 | 12718 | 13357 | 13433 | 13330 | 13230 | 13007 | 12750 | 12550 | 12292 | 12109 |    |    |
| 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  |    |
| TIE-HVDC        |      | 30    | 30    | 31    | 31    | 31    | 31    | 30    | 30    | 31    | 31    | 30    | 30    | 29    | 29    | 29    | 29    | 30    | 30    | 31    | 31    | 30    | 30    | 31    | 31    | 30    | 30    | 30    | 30    | 29    | 29    | 29    | 29    | 30    | 30    | 29    | 29    | 30    | 30    | 30    | 30    | 29    | 29    | 30    | 30    | 29    | 29    | 30    | 29    | 29 | 29 |
| TIE-PLTG        |      | -56   | -44   | -74   | -89   | -18   | -58   | -54   | -62   | -100  | -83   | -57   | -63   | -77   | -49   | -41   | -42   | 20    | -15   | -40   | -19   | -39   | -4    | -3    | -31   | 18    | -44   | -92   | -94   | -88   | -58   | -55   | -74   | -65   | -71   | -16   | -38   | -33   | -12   | -41   | -18   | -62   | -52   | -52   | -93   | -87   | -123  | -98   | -69   |    |    |
| Interconnection |      | -27   | -14   | -43   | -58   | 14    | -27   | -23   | -32   | -69   | -53   | -26   | -32   | -48   | -20   | -12   | -13   | 50    | 14    | -9    | 12    | -9    | 26    | 28    | 0     | 48    | -14   | -61   | -64   | -59   | -29   | -25   | -44   | -35   | -41   | 13    | -8    | -3    | 18    | -11   | 13    | -33   | -22   | -22   | -63   | -58   | -94   | -68   | -39   |    |    |
| System Total    |      | 12682 | 12444 | 12157 | 12053 | 11720 | 11639 | 11524 | 11424 | 11316 | 11205 | 11151 | 11229 | 11135 | 11208 | 11137 | 11010 | 10961 | 11233 | 11393 | 11585 | 11974 | 12177 | 12283 | 12370 | 12240 | 12100 | 12039 | 12174 | 12096 | 12171 | 12107 | 12031 | 12101 | 12127 | 11949 | 11915 | 12050 | 12297 | 12741 | 13356 | 13478 | 13364 | 13264 | 13082 | 12820 | 12656 | 12372 | 12160 |    |    |
| SRev ST-Coal    |      | 143   | 134   | 367   | 421   | 409   | 396   | 386   | 397   | 382   | 395   | 398   | 407   | 412   | 424   | 381   | 336   | 396   | 393   | 400   | 398   | 391   | 397   | 394   | 403   | 398   | 393   | 395   | 396   | 402   | 408   | 388   | 392   | 391   | 389   | 404   | 406   | 394   | 398   | 395   | 240   | 196   | 202   | 206   | 197   | 187   | 211   | 264   | 411   |    |    |
| SRev CCGT-Gas   |      | 741   | 957   | 839   | 875   | 882   | 876   | 870   | 945   | 1008  | 1122  | 1131  | 1072  | 1088  | 1067  | 1057  | 1217  | 1227  | 1017  | 928   | 849   | 748   | 753   | 712   | 714   | 752   | 722   | 718   | 730   | 765   | 778   | 782   | 865   | 845   | 745   | 750   | 800   | 653   | 479   | 223   | 192   | 157   | 163   | 197   | 500   | 520   | 505   | 673   | 681   |    |    |
| 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  |    |
| 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  |
| 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  |
| 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  |
| Syncon          |      | 839   | 612   | 425   | 425   | 763   | 914   | 1141  | 1141  | 1329  | 1329  | 1329  | 1329  | 1329  | 1178  | 1329  | 1329  | 1329  | 1329  | 1329  | 1242  | 929   | 691   | 691   | 655   | 842   | 968   | 968   | 781   | 781   | 781   | 630   | 781   | 680   | 781   | 868   | 868   | 868   | 868   | 630   | 126   | 126   | 126   | 126   | 277   | 529   | 630   | 717   | 868   |    |    |
| Hydro           |      | 667   | 754   | 791   | 756   | 488   | 430   | 329   | 352   | 261   | 229   | 248   | 223   | 258   | 321   | 255   | 264   | 265   | 264   | 215   | 186   | 423   | 416   | 351   | 440   | 359   | 349   | 423   | 463   | 504   | 371   | 533   | 379   | 403   | 383   | 412   | 406   | 404   | 525   | 600   | 776   | 780   | 972   | 931   | 708   | 580   | 670   | 531   | 293   |    |    |
| S.Reserve Total |      | 2390  | 2457  | 2422  | 2477  | 2542  | 2616  | 2726  | 2835  | 2980  | 3075  | 3106  | 3031  | 3087  | 2990  | 3022  | 3146  | 3217  | 3003  | 2872  | 2675  | 2491  | 2257  | 2148  | 2212  | 2351  | 2432  | 2504  | 2370  | 2452  | 2338  | 2333  | 2417  | 2319  | 2298  | 2434  | 2480  | 2319  | 2270  | 1848  | 1334  | 1259  | 1463  | 1460  | 1682  | 1816  | 2016  | 2185  | 2253  |    |    |