

### Availability at Daily Maximum Demand Hour

|                     |                  |
|---------------------|------------------|
| ST-Coal             | 0 MW             |
| ST-Gas              | 0 MW             |
| ST-Oil              | 0 MW             |
| Hydro               | 2,319 MW         |
| Distillate          | 0 MW             |
| <b>Total TNB</b>    | <b>2,319 MW</b>  |
| <b>Total IPP</b>    | <b>16,244 MW</b> |
| Total Co-Gen        | 0 MW             |
| <b>Total System</b> | <b>21,760 MW</b> |

### Generation Mix

| Type                    | MWh            | Percentage      |
|-------------------------|----------------|-----------------|
| Hydro                   | 16,701         | 5.02 %          |
| Gas                     | 49,292         | 14.83 %         |
| <b>Total TNB</b>        | <b>65,993</b>  | <b>19.85 %</b>  |
| ST-Coal                 | 189,160        | 56.90 %         |
| LSS                     | 3,756          | 1.13 %          |
| Gas                     | 74,348         | 22.36 %         |
| <b>Total IPP</b>        | <b>267,264</b> | <b>80.40 %</b>  |
| Co-Gen                  | 166            | 0.05 %          |
| <b>Total Co-Gen</b>     | <b>166</b>     | <b>0.05 %</b>   |
| <b>Total Generation</b> | <b>333,423</b> | <b>100.30 %</b> |
| PLTG                    | 259            | 0.08 %          |
| HVDC                    | 728            | 0.22 %          |
| <b>Interconnection</b>  | <b>987</b>     | <b>0.30 %</b>   |
| <b>Net Energy</b>       | <b>332,436</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: | 16:00:00 Hour |
| Total Set On Bus              | 17,170 MW     |
| TNB Generation                | 3,251 MW      |
| IPP Generation                | 12,544 MW     |
| Spinning Reserve              | 1,369 MW      |
| Maximum Demand                | 15,767 MW     |
| Net Energy                    | 332,436 MWH   |
| Load Factor                   | 87.85 %       |

### Fuel Cost

|               |                  |
|---------------|------------------|
| Total Cost:   | 51,997,521.98 RM |
| Cost per Unit | 15.59 cents/kWH  |

### Average Spinning Reserve During Peak Hour

| Type         | MW           |
|--------------|--------------|
| GT           | 222          |
| Hydro        | 235          |
| Syncon       | 647          |
| Thermal      | 487          |
| <b>Total</b> | <b>1,591</b> |

### Time Weather Temperature

| Time      | Weather | Temperature |
|-----------|---------|-------------|
| Afternoon | Hot     | 32          |
| Morning   | Sunny   | 25          |

### Gas Usage

| Station                   | (mmscfd)   |
|---------------------------|------------|
| GLGR                      | 30         |
| TJGS                      | 188        |
| <b>Total TNB</b>          | <b>218</b> |
| CBPS                      | 51         |
| NPRI                      | 159        |
| PGLA                      | 103        |
| <b>Total IPP</b>          | <b>313</b> |
| <b>Total Gas</b>          | <b>531</b> |
| <b>Total Gas Required</b> | <b>531</b> |

### 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 | 13301 | 12703 | 12203 | 11849 | 11546 | 11370 | 11405 | 11533 | 11982 | 13393 | 14138 | 14586 | 14689 | 14817 | 15304 | 15646 | 15767 | 15421 | 14521 | 14481 | 15534 | 15444 | 15238 | 15098 |

Prepared By: -Select Name-

Checked By: -Select Name-

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(Ir. Shanmugam Thoppalan)  
Head  
Grid System Operator





### Daily MW Generation on Monday

| 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 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |   |   |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|
| SRev ST-Coal    |      | 676  | 824  | 783  | 877  | 989  | 1028 | 1038 | 1039 | 1035 | 1034 | 1028 | 1033 | 1025 | 1039 | 1040 | 1039 | 1038 | 976  | 722  | 714  | 706  | 639  | 611  | 527  | 479  | 491  | 391  | 309  | 317  | 314  | 379  | 378  | 367  | 394  | 399  | 457  | 470  | 465  | 463  | 456  | 480  | 460  | 452  | 457  | 458  | 457  | 461  | 608  |   |   |   |
| 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 CCGT-Gas   |      | 170  | 184  | 320  | 554  | 595  | 683  | 701  | 813  | 961  | 1158 | 1261 | 1262 | 1258 | 990  | 904  | 963  | 646  | 377  | 391  | 219  | 205  | 239  | 164  | 184  | 168  | 295  | 354  | 356  | 208  | 221  | 242  | 233  | 199  | 199  | 214  | 185  | 309  | 483  | 571  | 242  | 330  | 291  | 188  | 200  | 135  | 152  | 157  | 170  |   |   |   |
| 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 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 |   |
| Syncon          |      | 826  | 826  | 826  | 826  | 826  | 826  | 826  | 826  | 826  | 826  | 826  | 826  | 826  | 826  | 675  | 826  | 826  | 826  | 738  | 738  | 826  | 826  | 738  | 738  | 651  | 651  | 651  | 738  | 651  | 651  | 651  | 374  | 500  | 500  | 651  | 740  | 740  | 928  | 651  | 651  | 525  | 651  | 651  | 500  | 651  | 651  | 651  | 738  |   |   |   |
| Hydro           |      | 136  | 137  | 187  | 143  | 144  | 111  | 130  | 115  | 127  | 126  | 107  | 152  | 143  | 122  | 257  | 124  | 45   | 136  | 189  | 124  | 97   | 163  | 87   | 107  | 236  | 386  | 409  | 276  | 393  | 432  | 198  | 463  | 303  | 371  | 227  | 234  | 319  | 290  | 244  | 178  | 165  | 176  | 216  | 341  | 185  | 179  | 350  | 337  |   |   |   |
| S.Reserve Total |      | 1808 | 1971 | 2116 | 2400 | 2554 | 2648 | 2695 | 2793 | 2949 | 3144 | 3222 | 3273 | 3252 | 2977 | 2876 | 2952 | 2555 | 2227 | 2040 | 1883 | 1834 | 1867 | 1600 | 1556 | 1534 | 1823 | 1805 | 1679 | 1569 | 1618 | 1470 | 1448 | 1369 | 1464 | 1491 | 1616 | 1838 | 2166 | 1929 | 1527 | 1500 | 1578 | 1507 | 1498 | 1429 | 1439 | 1619 | 1853 |   |   |   |