

**Availability at Daily Maximum Demand Hour**

|                     |                  |
|---------------------|------------------|
| ST-Coal             | 0 MW             |
| ST-Gas              | 0 MW             |
| ST-Oil              | 0 MW             |
| Gas                 | 1,894 MW         |
| Hydro               | 2,253 MW         |
| Distillate          | 0 MW             |
| <b>Total TNB</b>    | <b>4,147 MW</b>  |
| <b>Total IPP</b>    | <b>15,633 MW</b> |
| <b>Total Co-Gen</b> | <b>60 MW</b>     |
| <b>Total System</b> | <b>20,126 MW</b> |

**Generation Mix**

| Type                    | MWh            | Percentage      |
|-------------------------|----------------|-----------------|
| Gas                     | 21,948         | 6.39 %          |
| Hydro                   | 10,849         | 3.16 %          |
| <b>Total TNB</b>        | <b>32,797</b>  | <b>9.55 %</b>   |
| ST-Coal                 | 206,185        | 60.03 %         |
| Gas                     | 102,614        | 29.88 %         |
| <b>Total IPP</b>        | <b>308,799</b> | <b>89.91 %</b>  |
| Co-Gen                  | 1,391          | 0.40 %          |
| <b>Total Co-Gen</b>     | <b>1,391</b>   | <b>0.40 %</b>   |
| <b>Total Generation</b> | <b>342,987</b> | <b>99.86 %</b>  |
| PLTG                    | -760           | -0.22 %         |
| HVDC                    | 278            | 0.08 %          |
| <b>Interconnection</b>  | <b>-482</b>    | <b>-0.14 %</b>  |
| <b>Net Energy</b>       | <b>343,469</b> | <b>100.00 %</b> |

**Maximum Demand Record**

|                  |             |
|------------------|-------------|
| Date: 10/23/2017 | 17,790 MW   |
| Date: 4/20/2016  | 372,457 MWH |

**Set On Bus, TNB, IPP And MD**

|                               |               |
|-------------------------------|---------------|
| Daily Maximum Demand Hour at: | 20:30:00 Hour |
| Total Set On Bus              | 17,056 MW     |
| TNB Generation                | 1,862 MW      |
| IPP Generation                | 13,752 MW     |
| Spinning Reserve              | 1,383 MW      |
| Maximum Demand                | 15,715 MW     |
| Net Energy                    | 343,469 MWH   |
| Load Factor                   | 91.07 %       |

**Fuel Cost**

|               |                  |
|---------------|------------------|
| Total Cost:   | 61,276,959.56 RM |
| Cost per Unit | 18.45 cents/kWH  |

**Average Spinning Reserve During Peak Hour**

| Type         | MW           |
|--------------|--------------|
| GT           | 292          |
| Hydro        | 387          |
| Syncon       | 667          |
| Thermal      | 159          |
| <b>Total</b> | <b>1,505</b> |

| Time      | Weather | Temperature |
|-----------|---------|-------------|
| Afternoon | Hot     | 35          |
| Morning   | Sunny   | 28          |

**Gas Usage**

| Station          | (mmscfd)   |
|------------------|------------|
| GLGR             | 4          |
| PGPS             | 48         |
| TJGS             | 108        |
| <b>Total TNB</b> | <b>161</b> |
| CBPS             | 54         |
| KLPP             | 110        |
| NPRI             | 159        |
| PGLA             | 106        |
| PTEK             | 6          |
| SGRI             | 102        |
| SKSP             | 54         |
| YPKA             | 79         |
| <b>Total IPP</b> | <b>670</b> |
| <b>Total Gas</b> | <b>831</b> |

**Total Gas Required 831**

**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 | 15055 | 14423 | 13862 | 13470 | 13072 | 12786 | 12745 | 12639 | 12341 | 13402 | 14156 | 14961 | 15007 | 14624 | 15130 | 15302 | 15252 | 14920 | 14481 | 14449 | 15612 | 15657 | 15292 | 14881 |



### Daily MW Generation on Saturday

| 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 |     |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| JMAH          | U002 | 693  | 695  | 694  | 696  | 695  | 693  | 693  | 693  | 694  | 692  | 694  | 695  | 684  | 695  | 691  | 694  | 694  | 693  | 695  | 695  | 693  | 695  | 694  | 693  | 692 |
| JMJG          | U001 | 670  | 670  | 667  | 672  | 671  | 673  | 667  | 670  | 663  | 675  | 667  | 671  | 673  | 669  | 667  | 672  | 673  | 669  | 672  | 673  | 669  | 672  | 672  | 670  | 680 |
| JMJG          | U002 | 594  | 594  | 590  | 593  | 596  | 595  | 592  | 601  | 595  | 594  | 590  | 593  | 593  | 593  | 591  | 594  | 589  | 593  | 594  | 591  | 593  | 591  | 594  | 592  | 596 |
| JMJG          | U003 | 593  | 595  | 607  | 590  | 593  | 596  | 591  | 592  | 596  | 594  | 593  | 593  | 592  | 591  | 592  | 596  | 591  | 595  | 594  | 592  | 593  | 597  | 629  | 627  |     |
| JMJG          | U004 | 981  | 985  | 982  | 920  | 906  | 906  | 903  | 906  | 856  | 852  | 822  | 809  | 811  | 808  | 808  | 788  | 785  | 782  | 810  | 855  | 857  | 906  | 934  | 950  |     |
| JMJG          | U005 | 974  | 980  | 986  | 898  | 900  | 900  | 886  | 846  | 849  | 847  | 801  | 801  | 801  | 809  | 803  | 785  | 782  | 781  | 810  | 836  | 853  | 908  | 933  | 951  |     |
| PKLG          | U003 | 209  | 166  | 200  | 263  | 254  | 217  | 146  | 155  | 152  | 153  | 154  | 154  | 182  | 242  | 286  | 282  | 283  | 284  | 285  | 283  | 282  | 284  | 284  | 287  |     |
| PKLG          | U004 | 280  | 180  | 97   | 18   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |
| PKLG          | U005 | 468  | 470  | 471  | 469  | 468  | 467  | 468  | 469  | 468  | 472  | 472  | 470  | 470  | 470  | 472  | 474  | 469  | 470  | 464  | 469  | 470  | 468  | 470  | 467  |     |
| PKLG          | U006 | 470  | 468  | 470  | 469  | 470  | 468  | 472  | 470  | 470  | 470  | 470  | 470  | 470  | 470  | 469  | 470  | 470  | 470  | 469  | 470  | 468  | 470  | 470  | 470  |     |
| TBIN          | U001 | 687  | 689  | 690  | 687  | 689  | 686  | 690  | 690  | 690  | 689  | 689  | 689  | 689  | 690  | 691  | 692  | 689  | 690  | 691  | 690  | 689  | 690  | 687  | 691  |     |
| TBIN          | U002 | 688  | 690  | 687  | 690  | 688  | 692  | 690  | 686  | 687  | 691  | 686  | 689  | 692  | 690  | 691  | 691  | 689  | 692  | 690  | 689  | 692  | 691  | 689  | 690  |     |
| TBIN          | U003 | 690  | 692  | 693  | 691  | 690  | 693  | 691  | 691  | 689  | 689  | 696  | 705  | 695  | 692  | 691  | 687  | 690  | 684  | 683  | 684  | 685  | 688  | 690  | 682  |     |
| TBIN          | U004 | 982  | 981  | 982  | 923  | 903  | 902  | 902  | 901  | 854  | 852  | 814  | 804  | 800  | 801  | 802  | 802  | 801  | 803  | 805  | 852  | 851  | 910  | 932  | 953  |     |
| Total ST-Coal |      | 8979 | 8855 | 8816 | 8579 | 8525 | 8484 | 8393 | 8374 | 8262 | 8266 | 8153 | 8138 | 8146 | 8219 | 8259 | 8222 | 8212 | 8197 | 8262 | 8384 | 8395 | 8561 | 8645 | 8687 |     |
| Total ST-Oil  |      | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |
| Total 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    |     |
| CBPS          | BLK2 | 355  | 362  | 362  | 353  | 357  | 362  | 358  | 362  | 362  | 361  | 352  | 352  | 358  | 360  | 261  | 219  | 261  | 357  | 365  | 365  | 370  | 370  | 369  | 367  |     |
| GLGR          | GT01 | 67   | 68   | 68   | 67   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |
| GLGR          | GT02 | 68   | 68   | 68   | 68   | 90   | 30   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |
| GLGR          | ST1C | 71   | 71   | 72   | 72   | 40   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |
| KLPP          | GT13 | 117  | 120  | 114  | 112  | 115  | 138  | 138  | 120  | 116  | 130  | 110  | 101  | 69   | 69   | 68   | 72   | 63   | 97   | 120  | 140  | 140  | 144  | 137  | 138  |     |
| KLPP          | GT14 | 132  | 129  | 124  | 123  | 123  | 147  | 149  | 129  | 126  | 140  | 123  | 111  | 75   | 76   | 78   | 80   | 71   | 111  | 130  | 154  | 153  | 154  | 145  | 149  |     |
| KLPP          | GT15 | 126  | 122  | 119  | 118  | 119  | 147  | 148  | 128  | 125  | 140  | 119  | 95   | 76   | 76   | 78   | 77   | 74   | 107  | 127  | 150  | 150  | 145  | 143  | 144  |     |
| KLPP          | ST17 | 190  | 190  | 186  | 190  | 194  | 198  | 202  | 189  | 189  | 202  | 188  | 184  | 144  | 140  | 139  | 136  | 136  | 160  | 196  | 200  | 200  | 204  | 200  | 192  |     |
| NPRI          | BLK1 | 517  | 518  | 517  | 516  | 515  | 517  | 518  | 518  | 517  | 519  | 515  | 517  | 517  | 398  | 498  | 500  | 530  | 539  | 537  | 534  | 536  | 534  | 536  | 529  |     |
| NPRI          | BLK2 | 517  | 517  | 518  | 518  | 516  | 517  | 518  | 518  | 518  | 329  | 518  | 517  | 518  | 517  | 399  | 491  | 499  | 537  | 538  | 544  | 541  | 536  | 540  | 533  |     |
| PCGP          | PGRG | 396  | 401  | 404  | 397  | 404  | 404  | 404  | 405  | 405  | 403  | 397  | 398  | 405  | 403  | 265  | 262  | 262  | 262  | 262  | 365  | 262  | 262  | 262  | 410  |     |
| PGLA          | GT11 | 214  | 170  | 168  | 163  | 168  | 200  | 190  | 171  | 171  | 168  | 166  | 166  | 169  | 168  | 173  | 171  | 160  | 165  | 167  | 217  | 217  | 218  | 209  | 214  |     |
| PGLA          | GT12 | 218  | 173  | 172  | 168  | 171  | 204  | 195  | 175  | 174  | 172  | 170  | 169  | 173  | 173  | 175  | 176  | 165  | 170  | 172  | 220  | 220  | 222  | 214  | 216  |     |
| PGLA          | ST10 | 238  | 204  | 204  | 206  | 204  | 222  | 213  | 210  | 205  | 207  | 205  | 202  | 205  | 205  | 210  | 203  | 209  | 204  | 204  | 239  | 239  | 240  | 240  | 238  |     |
| PGPS          | GT3A | 66   | 67   | 67   | 67   | 67   | 66   | 67   | 67   | 66   | 67   | 67   | 66   | 66   | 66   | 66   | 66   | 89   | 89   | 88   | 89   | 89   | 88   | 89   | 88   |     |
| PGPS          | GT3B | 68   | 68   | 68   | 68   | 67   | 68   | 68   | 68   | 68   | 67   | 68   | 68   | 68   | 68   | 90   | 90   | 89   | 90   | 89   | 89   | 89   | 89   | 89   | 89   |     |
| PGPS          | ST3C | 60   | 60   | 60   | 60   | 59   | 59   | 59   | 59   | 59   | 59   | 59   | 59   | 59   | 59   | 60   | 60   | 61   | 83   | 85   | 85   | 86   | 86   | 87   |      |     |
| SGRI          | GT11 | 108  | 111  | 110  | 110  | 110  | 69   | 69   | 68   | 67   | 65   | 65   | 65   | 67   | 67   | 66   | 71   | 63   | 66   | 104  | 123  | 134  | 135  | 130  | 109  |     |
| SGRI          | GT12 | 115  | 116  | 113  | 113  | 114  | 76   | 74   | 75   | 75   | 75   | 71   | 70   | 74   | 74   | 73   | 77   | 69   | 72   | 124  | 129  | 141  | 145  | 139  | 116  |     |
| SGRI          | GT13 | 107  | 111  | 112  | 109  | 110  | 66   | 69   | 69   | 69   | 67   | 67   | 67   | 68   | 68   | 68   | 71   | 62   | 64   | 106  | 124  | 135  | 138  | 131  | 112  |     |
| SGRI          | ST14 | 199  | 197  | 199  | 199  | 200  | 157  | 156  | 151  | 154  | 154  | 150  | 153  | 152  | 155  | 151  | 152  | 148  | 198  | 199  | 211  | 216  | 212  | 196  | 199  |     |
| SGRI          | GT21 | 103  | 103  | 39   | 28   | 28   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |
| SGRI          | GT22 | 106  | 42   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |
| SGRI          | GT23 | 108  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |
| SGRI          | ST24 | 194  | 113  | 63   | 25   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |
| SKSP          | BLK1 | 346  | 339  | 340  | 346  | 343  | 345  | 228  | 219  | 220  | 220  | 218  | 218  | 220  | 220  | 221  | 223  | 219  | 233  | 221  | 316  | 345  | 346  | 338  | 344  |     |
| TJGS          | GT2A | 181  | 212  | 188  | 185  | 188  | 219  | 218  | 203  | 207  | 213  | 182  | 182  | 183  | 184  | 188  | 184  | 160  | 211  | 190  | 210  | 210  | 209  | 210  | 210  |     |
| TJGS          | GT2B | 185  | 217  | 192  | 188  | 192  | 222  | 222  | 207  | 211  | 218  | 186  | 187  | 187  | 189  | 191  | 189  | 164  | 215  | 194  | 215  | 213  | 214  | 215  | 214  |     |
| TJGS          | ST2C | 245  | 253  | 248  | 252  | 249  | 255  | 261  | 252  | 253  | 261  | 238  | 238  | 256  | 250  | 251  | 238  | 233  | 258  | 240  | 258  | 258  | 258  | 259  | 259  |     |
| YPKA          | GT11 | 105  | 105  | 105  | 105  | 70   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 44   | 128  | 128  | 128  | 128  | 129  |     |
| Total 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    |     |
| Total ST-Oil  |      | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |
| Total ST-Coal |      | 8979 | 8855 | 8816 | 8579 | 8525 | 8484 | 8393 | 8374 | 8262 | 8266 | 8153 | 8138 | 8146 | 8219 | 8259 | 8222 | 8212 | 8197 | 8262 | 8384 | 8395 | 8561 | 8645 | 8687 |     |



Daily MW Generation on Saturday

| 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  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |   |   |
|-----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|---|---|
| System Total    |      | 15055 | 14689 | 14423 | 14056 | 13862 | 13689 | 13470 | 13272 | 13072 | 12914 | 12786 | 12748 | 12745 | 12737 | 12639 | 12288 | 12341 | 12699 | 13402 | 13842 | 14156 | 14688 | 14961 | 14940 | 15007 | 14759 | 14624 | 14837 | 15130 | 15245 | 15302 | 15174 | 15252 | 15153 | 14920 | 14642 | 14481 | 14220 | 14449 | 15432 | 15612 | 15715 | 15657 | 15563 | 15292 | 15097 | 14881 | 14749 |   |   |   |
| SRev ST-Coal    |      | 125   | 127   | 66    | 391   | 357   | 358   | 353   | 334   | 359   | 356   | 351   | 336   | 348   | 360   | 359   | 354   | 361   | 374   | 365   | 71    | 60    | 134   | 50    | 68    | 76    | 215   | 198   | 195   | 229   | 217   | 210   | 211   | 208   | 207   | 219   | 214   | 221   | 220   | 205   | 119   | 87    | 147   | 145   | 156   | 139   | 142   | 152   | 92    |   |   |   |
| 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   |      | 925   | 1003  | 901   | 975   | 820   | 691   | 825   | 986   | 1060  | 1183  | 1183  | 1238  | 1307  | 1316  | 1529  | 1829  | 1713  | 1325  | 719   | 324   | 177   | 289   | 205   | 264   | 269   | 380   | 411   | 327   | 176   | 314   | 171   | 299   | 245   | 285   | 292   | 420   | 513   | 697   | 537   | 191   | 282   | 156   | 213   | 232   | 249   | 138   | 297   | 405   |   |   |   |
| 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 Co-Gen     |      | 0     | 0     | 0     | -1    | -1    | -2    | -2    | 0     | 0     | -1    | -2    | -2    | -1    | -2    | 0     | -2    | -2    | -3    | -2    | 4     | 6     | 7     | 4     | 6     | 5     | 6     | 7     | 7     | 5     | 5     | 7     | 6     | 8     | 4     | 6     | 4     | 5     | 3     | 1     | 3     | 2     | 1     | 1     | 2     | 2     | 1     | 0     | 2     |   |   |   |
| Syncon          |      | 1114  | 1114  | 1114  | 1114  | 1114  | 1114  | 1114  | 963   | 1114  | 1114  | 1114  | 1114  | 1200  | 1049  | 1049  | 1200  | 1200  | 1200  | 1200  | 1099  | 675   | 554   | 554   | 554   | 554   | 741   | 927   | 741   | 590   | 554   | 554   | 554   | 554   | 842   | 878   | 963   | 1049  | 1200  | 1200  | 727   | 439   | 626   | 626   | 626   | 626   | 711   | 711   | 797   |   |   |   |
| Hydro           |      | 154   | 125   | 132   | 148   | 146   | 142   | 145   | 272   | 145   | 145   | 147   | 220   | 145   | 278   | 277   | 148   | 157   | 151   | 147   | 186   | 457   | 486   | 533   | 442   | 435   | 428   | 370   | 338   | 351   | 247   | 333   | 356   | 372   | 319   | 404   | 379   | 343   | 219   | 207   | 444   | 673   | 446   | 396   | 317   | 431   | 472   | 478   | 380   |   |   |   |
| S.Reserve Total |      | 2318  | 2369  | 2213  | 2627  | 2436  | 2303  | 2435  | 2585  | 2676  | 2797  | 2793  | 2906  | 2999  | 3001  | 3214  | 3529  | 3429  | 3047  | 2429  | 1684  | 1375  | 1470  | 1346  | 1334  | 1339  | 1770  | 1913  | 1608  | 1351  | 1337  | 1275  | 1426  | 1387  | 1657  | 1799  | 1980  | 2131  | 2339  | 2248  | 1488  | 1489  | 1383  | 1388  | 1382  | 1516  | 1464  | 1638  | 1676  |   |   |   |