

## Daily System Generation Summary on Tuesday

Tuesday, September 24, 2019

### Availability at Daily Maximum Demand Hour

|              |           |
|--------------|-----------|
| ST-Coal      | 0 MW      |
| ST-Gas       | 0 MW      |
| ST-Oil       | 0 MW      |
| Hydro        | 2,339 MW  |
| Distillate   | 0 MW      |
| Total TNB    | 2,339 MW  |
| Total IPP    | 14,641 MW |
| Total Co-Gen | 65 MW     |
| Total System | 18,839 MW |

### Generation Mix

| Type                    | MWh            | Percentage      |
|-------------------------|----------------|-----------------|
| Hydro                   | 17,327         | 4.53 %          |
| Gas                     | 35,564         | 9.30 %          |
| <b>Total TNB</b>        | <b>52,891</b>  | <b>13.83 %</b>  |
| ST-Coal                 | 177,786        | 46.49 %         |
| ST-Gas                  | 5,316          | 1.39 %          |
| LSS                     | 2,058          | 0.54 %          |
| Gas                     | 141,767        | 37.07 %         |
| <b>Total IPP</b>        | <b>326,927</b> | <b>85.50 %</b>  |
| Co-Gen                  | 1,580          | 0.41 %          |
| <b>Total Co-Gen</b>     | <b>1,580</b>   | <b>0.41 %</b>   |
| <b>Total Generation</b> | <b>381,398</b> | <b>99.74 %</b>  |
| PLTG                    | -242           | -0.06 %         |
| HVDC                    | -750           | -0.20 %         |
| <b>Interconnection</b>  | <b>-992</b>    | <b>-0.26 %</b>  |
| <b>Net Energy</b>       | <b>382,390</b> | <b>100.00 %</b> |

### 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              | 19,519 MW     |
| TNB Generation                | 3,261 MW      |
| IPP Generation                | 14,698 MW     |
| Spinning Reserve              | 1,497 MW      |
| Maximum Demand                | 18,165 MW     |
| Net Energy                    | 382,390 MWH   |
| Load Factor                   | 87.71 %       |

### Fuel Cost

|               |                  |
|---------------|------------------|
| Total Cost:   | 81,137,805.23 RM |
| Cost per Unit | 21.25 cents/kWH  |

### Average Spinning Reserve During Peak Hour

| Type         | MW           |
|--------------|--------------|
| GT           | 511          |
| Hydro        | 417          |
| Syncon       | 574          |
| Thermal      | 273          |
| <b>Total</b> | <b>1,775</b> |

| Time      | Weather | Temperature |
|-----------|---------|-------------|
| Afternoon | Hot     | 34          |
| Morning   | Haze    | 27          |

### Gas Usage

| Station          | (mmscfd)   |
|------------------|------------|
| GLGR             | 54         |
| PAKA             | 44         |
| PGPS             | 48         |
| SRDG             | 25         |
| TJGS             | 107        |
| <b>Total TNB</b> | <b>276</b> |

|      |     |
|------|-----|
| CBPS | 54  |
| KLPP | 107 |
| MPSS | 54  |
| NPRI | 79  |
| PGLA | 112 |
| PKLG | 15  |
| PLPS | 109 |
| PTEK | 44  |
| SGB3 | 101 |
| SGRI | 174 |
| SKSP | 51  |
| YPKA | 80  |
| PKLG | 52  |

|                  |              |
|------------------|--------------|
| <b>Total IPP</b> | <b>1,031</b> |
| <b>Total Gas</b> | <b>1,308</b> |

|                           |              |
|---------------------------|--------------|
| <b>Total Gas Required</b> | <b>1,308</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 | 15474 | 14690 | 14160 | 13795 | 13464 | 13263 | 13481 | 13324 | 13911 | 15660 | 16672 | 17349 | 17310 | 17027 | 17734 | 18142 | 18145 | 17665 | 16548 | 16379 | 17358 | 17185 | 16744 | 16360 |

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, October 10, 2019 3:44:54 PM

(Ir. Shanmugam Thoppalan)  
Pengurus Besar Kanan  
Jabatan Sistem Operasi



## 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 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |   |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|---|
| SGRI           | GT12 | 123  | 114  | 114  | 118  | 115  | 114  | 114  | 113  | 113  | 118  | 118  | 113  | 115  | 114  | 113  | 115  | 143  | 129  | 140  | 129  | 141  | 136  | 140  | 122  | 133  | 127  | 118  | 141  | 138  | 138  | 138  | 138  | 139  | 120  | 138  | 132  | 131  | 124  | 146  | 138  | 138  | 134  | 143  | 144  | 145  | 135  | 118  |      |     |   |
| SGRI           | GT13 | 120  | 111  | 111  | 111  | 111  | 112  | 112  | 111  | 111  | 111  | 111  | 111  | 111  | 111  | 111  | 111  | 112  | 133  | 122  | 133  | 126  | 130  | 132  | 140  | 140  | 140  | 140  | 140  | 140  | 140  | 140  | 140  | 132  | 132  | 130  | 129  | 129  | 129  | 127  | 119  | 137  | 134  | 134  | 132  | 136  | 135  | 136  | 130  | 116 |   |
| SGRI           | ST14 | 206  | 184  | 183  | 191  | 183  | 182  | 181  | 183  | 182  | 183  | 188  | 182  | 190  | 182  | 184  | 184  | 188  | 215  | 208  | 214  | 206  | 217  | 215  | 217  | 215  | 210  | 214  | 213  | 215  | 214  | 216  | 218  | 213  | 217  | 210  | 216  | 216  | 206  | 209  | 214  | 212  | 214  | 214  | 222  | 220  | 215  | 209  | 207  |     |   |
| SGRI           | GT21 | 73   | 70   | 70   | 74   | 70   | 70   | 70   | 70   | 70   | 70   | 70   | 70   | 70   | 70   | 70   | 70   | 107  | 136  | 136  | 136  | 136  | 133  | 132  | 132  | 132  | 132  | 132  | 132  | 132  | 131  | 131  | 128  | 126  | 130  | 111  | 114  | 111  | 110  | 113  | 137  | 112  | 124  | 135  | 138  | 111  | 137  | 125  | 72   |     |   |
| SGRI           | GT23 | 109  | 70   | 70   | 70   | 70   | 70   | 68   | 70   | 70   | 70   | 70   | 70   | 70   | 70   | 68   | 70   | 72   | 141  | 141  | 141  | 141  | 139  | 137  | 139  | 139  | 139  | 139  | 138  | 138  | 137  | 137  | 131  | 128  | 131  | 110  | 114  | 113  | 110  | 111  | 144  | 113  | 127  | 134  | 142  | 112  | 141  | 129  | 70   |     |   |
| SGRI           | ST24 | 118  | 96   | 96   | 102  | 94   | 98   | 97   | 94   | 94   | 96   | 102  | 96   | 95   | 93   | 94   | 97   | 102  | 140  | 138  | 138  | 138  | 141  | 142  | 141  | 141  | 140  | 139  | 141  | 141  | 142  | 142  | 139  | 134  | 138  | 135  | 134  | 129  | 125  | 124  | 141  | 122  | 137  | 139  | 144  | 129  | 142  | 139  | 95   |     |   |
| SKSP           | BLK1 | 292  | 294  | 260  | 302  | 283  | 284  | 295  | 299  | 302  | 250  | 255  | 303  | 233  | 248  | 220  | 222  | 272  | 227  | 245  | 301  | 253  | 307  | 280  | 305  | 262  | 255  | 244  | 266  | 296  | 305  | 304  | 285  | 282  | 285  | 269  | 265  | 256  | 248  | 240  | 307  | 262  | 286  | 287  | 306  | 260  | 299  | 274  | 231  |     |   |
| TJGS           | GT1A | 222  | 220  | 222  | 218  | 223  | 220  | 220  | 222  | 226  | 227  | 228  | 226  | 227  | 136  | 175  | 226  | 195  | 223  | 228  | 214  | 228  | 224  | 221  | 214  | 222  | 217  | 211  | 226  | 225  | 226  | 222  | 224  | 231  | 204  | 223  | 222  | 225  | 221  | 222  | 220  | 223  | 221  | 220  | 223  | 222  | 223  | 224  |      |     |   |
| TJGS           | GT1B | 212  | 216  | 211  | 214  | 216  | 214  | 216  | 215  | 221  | 220  | 222  | 220  | 131  | 170  | 220  | 189  | 216  | 219  | 210  | 217  | 213  | 218  | 206  | 217  | 211  | 210  | 215  | 217  | 219  | 217  | 226  | 197  | 213  | 212  | 215  | 212  | 214  | 216  | 211  | 212  | 211  | 213  | 214  | 214  | 214  | 221  |      |      |     |   |
| TJGS           | ST1C | 242  | 242  | 242  | 242  | 242  | 242  | 238  | 242  | 242  | 251  | 250  | 247  | 247  | 193  | 199  | 247  | 224  | 242  | 246  | 245  | 252  | 246  | 253  | 246  | 243  | 246  | 245  | 252  | 248  | 248  | 246  | 246  | 250  | 240  | 245  | 245  | 243  | 240  | 243  | 243  | 243  | 243  | 243  | 243  | 243  | 243  | 243  |      |     |   |
| YPKA           | GT11 | 116  | 64   | 64   | 64   | 64   | 64   | 63   | 63   | 63   | 63   | 63   | 64   | 63   | 63   | 63   | 63   | 63   | 63   | 114  | 114  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  | 113  |      |     |   |
| YPKA           | GT12 | 135  | 63   | 63   | 64   | 62   | 62   | 63   | 62   | 62   | 62   | 63   | 63   | 63   | 63   | 62   | 62   | 63   | 63   | 63   | 135  | 134  | 133  | 133  | 130  | 132  | 132  | 130  | 132  | 129  | 129  | 130  | 133  | 134  | 130  | 134  | 132  | 132  | 134  | 133  | 134  | 135  | 134  | 136  | 137  | 135  | 137  | 137  | 139  |     |   |
| YPKA           | ST10 | 121  | 78   | 76   | 75   | 75   | 75   | 75   | 74   | 74   | 74   | 75   | 74   | 75   | 74   | 75   | 74   | 75   | 75   | 75   | 117  | 119  | 119  | 120  | 119  | 120  | 120  | 120  | 120  | 119  | 119  | 120  | 121  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 120  |      |     |   |
| YPKA           | GT21 | 65   | 65   | 65   | 66   | 65   | 65   | 65   | 65   | 65   | 65   | 65   | 65   | 65   | 65   | 65   | 65   | 65   | 65   | 120  | 120  | 121  | 120  | 120  | 118  | 119  | 119  | 120  | 121  | 120  | 120  | 118  | 118  | 117  | 115  | 118  | 118  | 118  | 116  | 118  | 118  | 119  | 117  | 118  | 118  | 118  | 118  | 116  |      |     |   |
| YPKA           | ST20 | 39   | 37   | 37   | 36   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 37   | 38   | 37   | 57   | 58   | 58   | 58   | 58   | 58   | 58   | 57   | 58   | 58   | 59   | 57   | 56   | 57   | 54   | 56   | 56   | 57   | 57   | 56   | 56   | 56   | 56   | 56   | 56   | 56   | 55   |      |      |     |   |
| Total CCGT-Gas |      | 7199 | 6758 | 6559 | 6680 | 6536 | 6498 | 6136 | 6213 | 6131 | 5954 | 5881 | 5970 | 6068 | 6242 | 5931 | 5833 | 6495 | 6826 | 7032 | 7532 | 7523 | 7756 | 7609 | 7734 | 7519 | 7537 | 7510 | 7515 | 7706 | 7712 | 7708 | 7658 | 7621 | 7670 | 7391 | 7504 | 7466 | 7237 | 7291 | 7759 | 7528 | 7619 | 7652 | 7754 | 7549 | 7734 | 7588 | 7160 |     |   |
| PKLG           | GT08 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 13   | 95   | 94   | 94   | 94   | 93   | 95   | 94   | 93   | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |   |
| PKLG           | GT09 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 74   | 96   | 97   | 97   | 97   | 96   | 96   | 97   | 97   | 96   | 96   | 96   | 96   | 96   | 96   | 97   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   |   |
| PTEK           | GT1A | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 103  | 105  | 106  | 107  | 106  | 107  | 106  | 106  | 68   | 68   | 69   | 71   | 102  | 102  | 103  | 100  | 102  | 65   | 0    | 0    | 0    | 0    |     |   |
| PTEK           | GT1B | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 110  | 106  | 107  | 88   | 87   | 90   | 88   | 109  | 109  | 108  | 108  | 109  | 108  | 104  | 105  | 104  | 105  | 70   | 69   | 71   | 72   | 102  | 102  | 102  | 102  | 80   | 0    | 0    | 0   | 0 |
| PTEK           | GT2A | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 79   | 103  | 89   | 89   | 90   | 90   | 105  | 105  | 104  | 104  | 105  | 104  | 105  | 104  | 105  | 70   | 69   | 71   | 72   | 102  | 102  | 102  | 102  | 80   | 0    | 0    | 0    | 0    |     |   |
| PTEK           | GT2B | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 53   | 103  | 104  | 103  | 103  | 104  | 104  | 104  | 69   | 69   | 70   | 71   | 101  | 102  | 102  | 99   | 101  | 12   | 0    | 0    | 0    | 0    |     |   |
| SRDG           | GT04 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 123  | 125  | 126  | 89   | 89   | 90   | 89   | 123  | 123  | 125  | 125  | 128  | 128  | 68   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |     |   |
| SRDG           | GT05 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 118  | 123  | 125  | 125  | 125  | 89   | 88   | 89   | 89   | 122  | 121  | 124  | 124  | 126  | 126  | 90   | 90   | 89   | 89   | 109  | 110  | 110  | 109  | 0    | 0    | 0    | 0    | 0    | 0    |     |   |
| Total OCGT-Gas |      | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 192  | 232  | 550  | 626  | 652  | 545  | 542  | 707  | 755  | 858  | 858  | 860  | 863  | 867  | 868  | 433  | 364  | 369  | 373  | 515  | 517  | 518  | 508  | 405  | 231  | 0    | 0    | 0    | 0    |     |   |
| BSIA           | HY01 | 22   | 22   | 22   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   |      |     |   |
| BSIA           | HY02 | 22   | 22   | 22   | 13   | 13   | 13   | 13   | 13   | 13   | 13   | 13   | 13   | 13   | 13   | 13   | 13   | 13   | 13   | 13   | 12   | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 22   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   |      |     |   |
| CEND           | HY01 | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |      |     |   |
| CEND           | HY02 | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |      |     |   |
| CEND           | HY03 | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |      |     |   |
| CEND           | HY04 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    |      |     |   |
| HTRG           | HY01 | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 125  | 125  | 125  | 125  | 126  | 126  | 125  | 125  | 125  | 125  | 63   | 63   | 125  | 125  | 125  | 125  | 125  | 125  | 125  | 125  | 110  | 110  | 125  | 124  | 124  | 125  | 125  | 124  | 125  | 123  | 124  | 125  | 125 |   |
| HTRG           | HY02 | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 125  | 125  | 125  | 124  | 125  | 12   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |   |

## 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  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |
|------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|
| SYPS             | HY01 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |
| SYPS             | HY02 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |
| SYPS             | HY03 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |
| SYPS             | HY04 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |
| TMGR             | HY01 | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |
| TMGR             | HY02 | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |
| TMGR             | HY03 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |
| TMGR             | HY04 | 31    | 31    | 30    | 31    | 30    | 31    | 31    | 30    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 30    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |
| UJLI             | HY01 | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |
| UJLI             | HY02 | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |
| UPIA             | HY01 | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |
| Total Hydro      |      | 445   | 444   | 444   | 389   | 407   | 388   | 409   | 153   | 160   | 161   | 162   | 161   | 161   | 182   | 162   | 180   | 162   | 413   | 606   | 646   | 705   | 917   | 827   | 866   | 815   | 818   | 696   | 905   | 1008  | 1296  | 1332  | 1398  | 1485  | 1492  | 1263  | 1050  | 795   | 762   | 896   | 1241  | 1313  | 1210  | 1044  | 981   | 849   | 805   | 719   | 676   |   |
| Total Distillate |      | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0 |
| BDLS             | LSS1 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 3     | 7     | 10    | 14    | 17    | 20    | 22    | 24    | 27    | 27    | 29    | 22    | 11    | 26    | 26    | 20    | 19    | 16    | 9     | 7     | 7     | 2     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |   |
| CHLS             | LSS1 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 5     | 11    | 17    | 23    | 27    | 34    | 37    | 38    | 44    | 46    | 48    | 25    | 23    | 22    | 17    | 39    | 34    | 4     | 5     | 4     | 2     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |   |
| GBLS             | LSS1 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 3     | 11    | 17    | 22    | 33    | 23    | 44    | 34    | 48    | 44    | 23    | 23    | 49    | 44    | 44    | 34    | 39    | 23    | 23    | 11    | 11    | 1     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |   |
| GNLS             | LSS1 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 5     | 10    | 16    | 25    | 29    | 37    | 42    | 45    | 49    | 50    | 33    | 16    | 10    | 51    | 45    | 24    | 38    | 18    | 10    | 13    | 9     | 3     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |   |
| JSLS             | LSS1 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 5     | 6     | 18    | 26    | 33    | 23    | 44    | 46    | 41    | 25    | 12    | 13    | 21    | 49    | 38    | 39    | 34    | 30    | 27    | 16    | 7     | 2     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |       |   |
| KKLS             | LSS1 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 3     | 9     | 13    | 20    | 27    | 34    | 38    | 41    | 44    | 45    | 48    | 22    | 7     | 7     | 15    | 30    | 12    | 8     | 6     | 4     | 3     | 1     | 0     | 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     | 5     | 8     | 20    | 12    | 43    | 39    | 47    | 45    | 50    | 22    | 50    | 50    | 50    | 8     | 46    | 44    | 19    | 12    | 13    | 10    | 7     | 1     | 0     | 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     | 2     | 7     | 13    | 19    | 31    | 37    | 31    | 49    | 51    | 50    | 45    | 40    | 30    | 29    | 32    | 22    | 9     | 8     | 2     | 2     | 3     | 1     | 1     | 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     | 1     | 4     | 9     | 16    | 22    | 28    | 33    | 37    | 40    | 25    | 43    | 43    | 22    | 43    | 22    | 24    | 8     | 23    | 21    | 4     | 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     | 6     | 40    | 84    | 140   | 195   | 274   | 274   | 360   | 364   | 378   | 347   | 326   | 223   | 243   | 261   | 275   | 263   | 211   | 136   | 116   | 83    | 49    | 22    | 2     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0 |
| PCUF             | CUFG | 29    | 26    | 28    | 28    | 26    | 28    | 28    | 27    | 27    | 27    | 27    | 28    | 27    | 26    | 28    | 27    | 29    | 30    | 26    | 27    | 28    | 28    | 29    | 28    | 28    | 27    | 25    | 25    | 24    | 28    | 27    | 27    | 24    | 25    | 26    | 26    | 26    | 25    | 26    | 26    | 25    | 26    | 27    | 28    | 28    | 29    |       |       |   |
| PCUF             | CUFK | 18    | 40    | 38    | 43    | 38    | 39    | 40    | 38    | 39    | 39    | 41    | 38    | 40    | 40    | 39    | 39    | 38    | 38    | 38    | 38    | 40    | 39    | 39    | 38    | 37    | 40    | 41    | 39    | 39    | 38    | 39    | 39    | 36    | 39    | 41    | 40    | 40    | 39    | 41    | 42    | 39    | 41    | 41    | 39    | 39    | 37    |       |       |   |
| Total Co-Gen     |      | 47    | 66    | 66    | 71    | 64    | 67    | 68    | 65    | 66    | 66    | 68    | 65    | 68    | 67    | 66    | 66    | 66    | 64    | 66    | 65    | 67    | 70    | 65    | 66    | 66    | 65    | 69    | 69    | 67    | 66    | 63    | 64    | 63    | 64    | 66    | 68    | 64    | 65    | 65    | 67    | 68    | 64    | 67    | 68    | 67    | 67    | 66    |       |   |
| Total Gen        |      | 15343 | 14917 | 14563 | 14483 | 14170 | 14116 | 13779 | 13595 | 13511 | 13352 | 13270 | 13353 | 13459 | 13663 | 13332 | 13251 | 13929 | 15020 | 15638 | 16236 | 16550 | 17038 | 17216 | 17426 | 17212 | 17094 | 16914 | 17216 | 17573 | 17979 | 18027 | 18035 | 18051 | 18052 | 17535 | 16938 | 16452 | 16126 | 16323 | 17377 | 17381 | 17387 | 17257 | 17208 | 16761 | 16691 | 16396 | 15941 |   |
| 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         |      | -99   | -98   | -98   | 31    | 31    | 31    | 31    | 30    | 30    | 30    | 30    | 30    | 31    | 31    | 29    | 29    | 29    | 29    | -98   | -98   | -98   | -98   | -99   | -99   | -97   | -97   | -97   | -97   | -98   | -98   | -97   | -99   | -99   | -98   | -100  | -98   | -97   | 31    | 31    | 30    | 30    | 32    | 32    | 30    | 30    | 31    |       |       |   |
| TIE-PLTG         |      | -29   | -8    | -26   | -61   | -17   | -21   | -43   | 13    | 21    | -48   | -19   | -3    | -49   | 30    | -19   | 3     | -7    | -21   | -47   | -1    | -20   | -26   | -31   | 10    | 5     | -15   | -12   | -85   | -61   | -11   | -13   | 28    | 6     | -12   | -29   | 23    | 6     | -26   | 44    | 3     | -4    | 6     | 46    | 59    | -10   | -6    | 11    | -21   |   |
| Interconnection  |      | -128  | -106  | -124  | -30   | 14    | 10    | -12   | 43    | 51    | -18   | 11    | 27    | -18   | 61    | 12    | 32    | 22    | 8     | -18   | -99   | -119  | -125  | -130  | -89   | -94   | -113  | -109  | -182  | -158  | -109  | -112  | -69   | -91   | -110  | -127  | -75   | -93   | -124  | -53   | 34    | 27    | 36    | 76    | 90    | 21    | 24    | 40    | 9     |   |
| System Total     |      | 15474 | 15026 | 14690 | 14517 | 14160 | 14110 | 13795 | 13556 | 13464 | 13374 | 13263 | 13330 | 13481 | 13606 | 13324 | 13223 | 13911 | 15016 | 15660 | 16338 | 16672 | 17166 | 17349 | 17519 | 17310 | 17211 | 17027 | 17401 | 17734 | 18091 | 18142 | 18107 | 18145 | 18165 | 17665 | 17016 | 16548 | 16253 | 16379 | 17347 | 17358 | 17355 | 17185 | 17122 | 16744 | 16671 | 16360 | 15936 |   |
| SRev ST-Coal     |      | 235   | 235   | 390   | 386   | 370   | 369   | 369   | 366   | 379   | 359   | 372   | 373   | 369   | 357   | 361   | 366   | 367   | 309   | 248   | 258   | 265   | 264   | 256   | 285   | 274   | 275   | 281   | 259   | 264   | 270   | 268   | 296   | 282   | 245   | 236   | 254   | 260   | 255   | 264   | 295   | 305   | 247   | 330   | 268   | 255   | 234   | 273   | 252   |   |
| 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 |
| SRev CCGT-Gas    |      | 843   | 1284  | 1483  | 1362  | 1506  | 1544  | 1906  | 1708  | 1790  | 1967  | 2040  | 1951  | 1853  | 1679  | 2065  | 2197  | 1545  | 1214  | 999   | 535   | 544   | 311   | 458   | 333   | 548   | 530   | 557   | 552   | 361   | 355   | 359   | 409   | 446   | 397   | 676   | 563   | 601   | 830   | 776   | 308   | 539   | 448   | 415   | 313   | 518   | 333   | 479   | 907   |   |
| SRev ST-Gas      |      | 38    | 38    | 37    | 37    | 37    | 37    | 37    | 37    | 37    | 37    | 37    | 37    | 37    | 37    | 37    | 37    | 37    | 40    | 15    | 4     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 16    | 40    | 38    | 40    | 31    | 11    | 3     | 3     | 3     | 3     | 3     | 43    | 38    |   |
| 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 Co-Gen      |      | 18    | -1    | -1    | -6    | 1     | -2    | -3    | 0     | -1    | -1    | -3    | 0     | -3    | -2    | -2    | -1    | -1    | -1    | 1     | -1    | 0     | -2    | -5    | 0     | -1    | -1    | 0     | -4    | -4    | -2    | -1    | 2     | 1     | 2     | 1     | -1    | -3    | 1     | 0     | 0     | -2    | -3    | 1     | -2    | -3    | -2    | -2    | -1    |   |
| Syncon           |      | 1102  | 1102  | 1102  | 1102  | 951   | 1102  | 951   | 1203  | 1203  | 1203  | 1203  | 1203  | 1203  | 1052  | 1203  | 1052  | 1203  | 951   | 850   | 850   | 850   | 476   | 663   | 525   | 676   | 676   | 676   | 525   | 676   | 489   | 489   | 338   | 187   | 187   | 525   | 676   | 762   | 762   | 676   | 489   | 489   | 676   | 676   | 525   | 762   | 611   | 850   | 850   |   |
| Hydro            |      | 257   | 258   | 258   | 248   | 381   | 249   | 379   | 283   | 284   | 283   | 282   | 283   | 283   | 413   | 282   | 415   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |