

## Daily System Generation Summary on Friday

Friday, June 24, 2022

### Availability at Daily Maximum Demand Hour

|              |           |
|--------------|-----------|
| ST-Coal      | 0 MW      |
| ST-Gas       | 0 MW      |
| ST-Oil       | 0 MW      |
| Hydro        | 2,236 MW  |
| Distillate   | 0 MW      |
| Total TNB    | 2,236 MW  |
| Total IPP    | 17,315 MW |
| Total Co-Gen | 0 MW      |
| Total System | 23,110 MW |

### Generation Mix

| Type                    | MWh            | Percentage      |
|-------------------------|----------------|-----------------|
| Hydro                   | 16,191         | 4.48 %          |
| Gas                     | 47,162         | 13.04 %         |
| <b>Total TNB</b>        | <b>63,353</b>  | <b>17.51 %</b>  |
| ST-Coal                 | 199,327        | 55.10 %         |
| LSS                     | 4,271          | 1.18 %          |
| Gas                     | 92,808         | 25.65 %         |
| <b>Total IPP</b>        | <b>296,406</b> | <b>81.93 %</b>  |
| Co-Gen                  | 1,092          | 0.30 %          |
| <b>Total Co-Gen</b>     | <b>1,092</b>   | <b>0.30 %</b>   |
| <b>Total Generation</b> | <b>360,851</b> | <b>99.74 %</b>  |
| PLTG                    | -235           | -0.06 %         |
| EGAT                    | 6              | 0.00 %          |
| HVDC                    | -696           | -0.19 %         |
| <b>Interconnection</b>  | <b>-925</b>    | <b>-0.26 %</b>  |
| <b>Net Energy</b>       | <b>361,776</b> | <b>100.00 %</b> |

### 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: | 16:30:00 Hour |
| Total Set On Bus              | 17,787 MW     |
| TNB Generation                | 3,291 MW      |
| IPP Generation                | 13,261 MW     |
| Spinning Reserve              | 1,182 MW      |
| Maximum Demand                | 16,617 MW     |
| Net Energy                    | 361,776 MWH   |
| Load Factor                   | 90.71 %       |

### Fuel Cost

|               |                  |
|---------------|------------------|
| Total Cost:   | 92,567,922.49 RM |
| Cost per Unit | 25.67 cents/kWH  |

### Average Spinning Reserve During Peak Hour

| Type         | MW           |
|--------------|--------------|
| GT           | 620          |
| Hydro        | 476          |
| Syncon       | 376          |
| Thermal      | 167          |
| <b>Total</b> | <b>1,639</b> |

| Time      | Weather | Temperature |
|-----------|---------|-------------|
| Afternoon | Rainy   | 31          |
| Morning   | Rainy   | 26          |

### Gas Usage

| Station          | (mmscfd)   |
|------------------|------------|
| GLGR             | 55         |
| SRDG             | 2          |
| TJGS             | 178        |
| <b>Total TNB</b> | <b>236</b> |
| CBPS             | 47         |
| EMPP             | 182        |
| KLPP             | 37         |
| NPRI             | 150        |
| PCGP             | 79         |
| PGLA             | 50         |
| PLPS             | 49         |
| SKSP             | 34         |
| SPGP             | 93         |
| <b>Total IPP</b> | <b>722</b> |
| <b>Total Gas</b> | <b>958</b> |

**Total Gas Required 958**

### 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 | 15043 | 14358 | 13792 | 13393 | 13042 | 12855 | 13099 | 13102 | 13454 | 14961 | 15626 | 16029 | 16003 | 15612 | 15816 | 16505 | 16588 | 16448 | 15605 | 15640 | 16609 | 16488 | 15850 | 15502 |

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, July 4, 2022 11:24:10 AM

(Ir. Shanmugam Thoppalan)  
Head  
Grid System Operator

| 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    | U001 | 697  | 696  | 696  | 696  | 696  | 694  | 696  | 696  | 696  | 695  | 696  | 698  | 698  | 695  | 696  | 695  | 696  | 694  | 695  | 697  | 696  | 695  | 694  | 696  | 693 | 694 | 696 | 693 | 694 | 696 | 697 | 698 | 694 | 696 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| JMAH    | U002 | 696  | 700  | 694  | 696  | 696  | 692  | 696  | 693  | 696  | 694  | 693  | 696  | 694  | 694  | 697  | 694  | 696  | 694  | 693  | 693  | 696  | 695  | 695  | 698  | 694 | 696 | 694 | 696 | 695 | 694 | 696 | 698 | 698 | 695 | 696 | 695 | 697 | 695 |     |     |     |     |     |     |     |     |     |     |     |     |
| JMUG    | U001 | 672  | 662  | 667  | 661  | 671  | 661  | 663  | 666  | 666  | 666  | 663  | 667  | 667  | 664  | 664  | 668  | 663  | 662  | 668  | 663  | 666  | 666  | 666  | 667  | 666 | 666 | 667 | 666 | 669 | 671 | 673 | 672 | 672 | 667 | 672 | 674 | 671 | 671 | 671 | 670 | 667 | 671 | 670 | 673 |     |     |     |     |     |     |
| JMUG    | U002 | 673  | 677  | 669  | 675  | 672  | 677  | 668  | 676  | 677  | 674  | 671  | 673  | 676  | 676  | 675  | 674  | 677  | 676  | 679  | 674  | 677  | 673  | 673  | 675  | 674 | 674 | 674 | 679 | 677 | 671 | 676 | 677 | 674 | 678 | 673 | 673 | 673 | 673 | 673 | 673 | 673 | 673 |     |     |     |     |     |     |     |     |
| JMUG    | U003 | 667  | 674  | 674  | 655  | 651  | 672  | 668  | 673  | 674  | 670  | 673  | 666  | 678  | 678  | 675  | 677  | 671  | 675  | 672  | 673  | 671  | 673  | 677  | 679  | 667 | 679 | 667 | 679 | 667 | 671 | 676 | 663 | 671 | 676 | 668 | 662 | 668 | 665 | 667 | 667 | 667 | 667 |     |     |     |     |     |     |     |     |
| JMUG    | U004 | 982  | 943  | 904  | 902  | 861  | 854  | 856  | 851  | 854  | 854  | 858  | 855  | 858  | 855  | 856  | 857  | 854  | 910  | 970  | 948  | 949  | 974  | 977  | 977  | 977 | 976 | 980 | 978 | 974 | 977 | 977 | 977 | 976 | 977 | 978 | 974 | 977 | 972 | 975 | 972 | 977 | 976 | 978 | 976 | 974 | 976 | 977 |     |     |     |
| JMUG    | U005 | 951  | 923  | 921  | 925  | 925  | 925  | 923  | 923  | 922  | 923  | 925  | 925  | 926  | 925  | 924  | 925  | 920  | 955  | 948  | 949  | 952  | 952  | 946  | 950  | 952 | 949 | 950 | 951 | 950 | 951 | 950 | 950 | 952 | 950 | 949 | 950 | 949 | 952 | 949 | 949 | 948 | 952 | 948 | 948 | 949 | 952 | 952 | 952 |     |     |
| PKLG    | U003 | 279  | 283  | 278  | 278  | 277  | 277  | 278  | 280  | 275  | 252  | 235  | 207  | 205  | 238  | 270  | 273  | 275  | 277  | 277  | 277  | 277  | 280  | 279  | 278  | 275 | 272 | 200 | 259 | 271 | 271 | 274 | 275 | 275 | 275 | 279 | 276 | 279 | 278 | 279 | 275 | 276 | 274 | 273 | 276 | 277 | 275 | 278 | 277 | 278 |     |
| PKLG    | U004 | 274  | 272  | 273  | 270  | 273  | 274  | 275  | 271  | 269  | 232  | 210  | 202  | 205  | 245  | 272  | 274  | 274  | 274  | 274  | 272  | 272  | 274  | 274  | 270  | 271 | 272 | 276 | 273 | 271 | 274 | 278 | 274 | 278 | 276 | 274 | 274 | 273 | 274 | 273 | 273 | 271 | 271 | 274 | 268 | 277 | 278 | 276 | 274 |     |     |
| PKLG    | U005 | 468  | 459  | 469  | 471  | 470  | 470  | 474  | 470  | 426  | 336  | 265  | 264  | 269  | 268  | 269  | 272  | 270  | 342  | 436  | 467  | 456  | 464  | 466  | 466  | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 |
| PKLG    | U006 | 449  | 448  | 448  | 446  | 449  | 446  | 448  | 449  | 446  | 446  | 446  | 449  | 448  | 44   |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

### Daily MW Generation on Friday

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