

Availability at Daily Maximum Demand Hour

| | |
|-------------------------------|------------------|
| ST-Coal | 9,387 MW |
| ST-Gas | 180 MW |
| ST-Oil | 250 MW |
| LSS | 1,590 MW |
| Hydro | 2,487 MW |
| Distillate | 535 MW |
| Others | 0 MW |
| Gas | 8,022 MW |
| Co-Gen | 0 MW |
| Total System | 22,451 MW |
| Total System w/o solar | 20,861 MW |

Maximum Demand Record

| | |
|-----------------|-------------|
| Date: 7/25/2024 | 20,066 MW |
| Date: 7/25/2024 | 428,610 MWH |

Gas Usage

| Station | (mmscfd) | Station | (mmscfd) |
|------------------|------------|--------------|------------|
| GLGR | 30 | NPRI | 159 |
| SRDG | 4 | PKLG | 14 |
| TJGS | 174 | Total | 173 |
| EMPP | 264 | | |
| KLPP | 54 | | |
| NPRI | 91 | | |
| PCGP | 82 | | |
| SGRI | 67 | | |
| SPGP | 100 | | |
| PKLG | 64 | | |
| Total Gas | 928 | | |

Alternate Fuel Usage

Set On Bus And MD

| | |
|-------------------------------|---------------|
| Daily Maximum Demand Hour at: | 20:00:00 Hour |
| Total Set On Bus | 19,032 MW |
| Spinning Reserve | 1,161 MW |
| Maximum Demand | 17,831 MW |
| Net Energy | 384,517 MWH |
| Load Factor | 90 % |
| Operating Reserve | 3,030 MW |

Generation Mix

| Type | MWh | Percentage |
|-------------------------|----------------|-----------------|
| ST-Coal | 224,885 | 58.49 % |
| ST-Gas | 6,166 | 1.60 % |
| ST-Oil | 1,425 | 0.37 % |
| LSS | 9,242 | 2.40 % |
| Hydro | 15,176 | 3.95 % |
| Distillate | 4,000 | 1.04 % |
| Gas | 127,615 | 33.19 % |
| Co-Gen | -3,231 | -0.84 % |
| Total Generation | 385,278 | 100.20 % |

Fuel Cost

| | |
|---------------|------------------|
| Total Cost: | 94,762,974.81 RM |
| Cost per Unit | 24.37 cents/kWH |

Total Gas Required 1,101

Average Spinning Reserve During Peak Hour

| Type | MW |
|--------------|--------------|
| GT | 1,518 |
| Hydro | 318 |
| Syncon | 907 |
| Thermal | 226 |
| Total | 2,969 |

| | | |
|------------------------|----------------|-----------------|
| PLTG | 39 | 0.01 % |
| HVDC | 722 | 0.19 % |
| Interconnection | 761 | 0.20 % |
| Net Energy | 384,517 | 100.00 % |

| Time | Weather | Temperature |
|-----------|---------|-------------|
| Afternoon | Cloudy | 32 |
| Morning | Rainy | 27 |

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 | 17184 | 16517 | 15857 | 15260 | 14911 | 14634 | 14488 | 14284 | 13880 | 14755 | 15474 | 15755 | 15702 | 15563 | 16180 | 16713 | 16993 | 16853 | 16436 | 16742 | 17831 | 17746 | 17417 | 16978 |

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, September 11, 2024
10:16:07 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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 | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|---|
| UJLI | HYDR | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -2 | 93 | 88 | -2 | -2 | -2 | 92 | 255 | 248 | 243 | 239 | 197 | 99 | 92 | 92 | 92 | -2 | | | | | | | | | | | | | | | | | |
| Total Hydro | | 664 | 622 | 664 | 646 | 617 | 607 | 583 | 584 | 602 | 619 | 619 | 592 | 507 | 525 | 531 | 280 | 259 | 274 | 321 | 349 | 330 | 339 | 344 | 349 | 336 | 338 | 297 | 320 | 287 | 313 | 491 | 403 | 794 | 683 | 579 | 568 | 536 | 927 | 1309 | 1533 | 1495 | 1522 | 1214 | 1052 | 1001 | 970 | 782 | | | |
| NPRI | BLK1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 282 | 304 | 304 | 303 | 302 | 382 | 438 | 437 | 436 | 436 | 439 | 435 | 438 | 440 | 439 | 437 | 437 | 437 | 437 | 437 | | | |
| 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 | 282 | 304 | 304 | 303 | 302 | 382 | 438 | 437 | 436 | 436 | 439 | 435 | 438 | 440 | 439 | 437 | 437 | 437 | 437 | 437 | | | |
| Total Solar | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 167 | 304 | 454 | 695 | 859 | 1052 | 1186 | 1180 | 1284 | 1248 | 1270 | 1243 | 1320 | 1318 | 1160 | 1004 | 839 | 681 | 528 | 321 | 232 | 94 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| PCUF | CUFG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 4 | 4 | 5 | 5 | 4 | 4 | 4 | 5 | 5 | 4 | 4 | 3 | 4 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | | |
| PCUF | CUFK | 11 | 11 | 13 | 12 | 11 | 10 | 11 | 13 | 12 | 12 | 10 | 13 | 11 | 12 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 7 | 6 | 6 | 4 | 4 | 6 | 6 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 6 | 7 | 9 | 9 | 7 | 8 | 8 | | | |
| PFTZ | PFTZ | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 4 | 2 | 2 | 2 | 4 | 3 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 4 | | |
| Total NEDA Co-Gen | | 13 | 13 | 15 | 14 | 13 | 14 | 13 | 15 | 14 | 16 | 12 | 17 | 15 | 20 | 18 | 19 | 17 | 17 | 18 | 16 | 14 | 13 | 14 | 11 | 9 | 12 | 13 | 11 | 13 | 14 | 15 | 14 | 12 | 13 | 15 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 14 | 13 | 13 | 13 | 14 | | |
| Total NEDA Solar | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 Generation | | 17363 | 16973 | 16713 | 16270 | 16042 | 15868 | 15478 | 15337 | 15112 | 14887 | 14828 | 14751 | 14693 | 14711 | 14504 | 14138 | 14052 | 14585 | 14913 | 15246 | 15587 | 15800 | 15871 | 16099 | 15953 | 15805 | 15850 | 16195 | 16292 | 16550 | 16868 | 16983 | 17138 | 17366 | 17154 | 16843 | 16689 | 16640 | 16959 | 17631 | 18006 | 17977 | 17929 | 17734 | 17576 | 17294 | 17131 | 16911 | | |
| ESTL | ESTL | -39 | -39 | -42 | -45 | -42 | -38 | -40 | -34 | -47 | -40 | -41 | -39 | -30 | -38 | -29 | -41 | -44 | -32 | -46 | -39 | -46 | -43 | -34 | -37 | -46 | -39 | -38 | -38 | -33 | -32 | -44 | -47 | -40 | -53 | -49 | -37 | -30 | -26 | -24 | -30 | -39 | -46 | -41 | -40 | -34 | -30 | -30 | | | |
| KHTC | BLK1 | -106 | -105 | -101 | -104 | -105 | -103 | -101 | -103 | -100 | -97 | -98 | -98 | -99 | -102 | -103 | -102 | -102 | -105 | -99 | -58 | -61 | -99 | -111 | -114 | -114 | -115 | -116 | -122 | -121 | -119 | -121 | -120 | -124 | -124 | -116 | -108 | -106 | -107 | -106 | -108 | -108 | -106 | -108 | -106 | -106 | -105 | -104 | -102 | | |
| PCUF | CUFG | -22 | -22 | -24 | -22 | -23 | -18 | -18 | -17 | -17 | -12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 Franchise Area | | -167 | -166 | -167 | -171 | -173 | -163 | -157 | -160 | -151 | -161 | -150 | -139 | -138 | -132 | -141 | -131 | -143 | -149 | -131 | -104 | -100 | -145 | -154 | -148 | -151 | -161 | -155 | -160 | -159 | -152 | -153 | -164 | -171 | -164 | -169 | -157 | -143 | -137 | -132 | -132 | -138 | -145 | -154 | -147 | -146 | -139 | -134 | -132 | | |
| Singapore | | -15 | 6 | 1 | -51 | -15 | 71 | 34 | -27 | 23 | 7 | 17 | 26 | 40 | 45 | 52 | 24 | 2 | -70 | 0 | -42 | -15 | -96 | -65 | -25 | 73 | 63 | 105 | 55 | -74 | -50 | -25 | -76 | -53 | 78 | 103 | -26 | 84 | -11 | 59 | -70 | 11 | -4 | 1 | -56 | -15 | -33 | -9 | 20 | | |
| Thailand | | 30 | 30 | 31 | 31 | 29 | 29 | 30 | 31 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 29 | 29 | 30 | 30 | 30 | 30 | 31 | 31 | 30 | 30 | 30 | 31 | 31 | 30 | 30 | 31 | 31 | 32 | 32 | 29 | 29 | 30 | 30 | 29 | 29 | 31 | 29 | 31 | 29 | 31 | 29 | 31 | 31 | | |
| Interconnection | | 15 | 36 | 32 | -20 | 15 | 101 | 64 | 4 | 53 | 37 | 47 | 56 | 70 | 75 | 82 | 54 | 32 | -41 | 30 | -11 | 16 | -65 | -35 | 6 | 103 | 93 | 135 | 85 | -44 | -19 | 5 | -47 | -23 | 109 | 135 | 6 | 113 | 18 | 88 | -40 | 40 | 24 | 32 | -27 | 16 | -4 | 22 | 52 | | |
| Total Demand | | 17184 | 16774 | 16517 | 16122 | 15857 | 15607 | 15260 | 15176 | 14911 | 14692 | 14634 | 14559 | 14488 | 14507 | 14284 | 13956 | 13880 | 14480 | 14755 | 15156 | 15474 | 15723 | 15755 | 15948 | 15702 | 15554 | 15563 | 15953 | 16180 | 16420 | 16713 | 16869 | 16993 | 17096 | 16853 | 16683 | 16436 | 16488 | 16742 | 17542 | 17831 | 17811 | 17746 | 17617 | 17417 | 17162 | 16978 | 16730 | | |
| S.Rev ST-Coal | | 173 | 155 | 158 | 168 | 169 | 169 | 173 | 182 | 173 | 231 | 174 | 170 | 175 | 154 | 431 | 435 | 450 | 467 | 268 | 254 | 180 | 188 | 186 | 197 | 222 | 167 | 157 | 169 | 149 | 149 | 172 | 169 | 146 | 154 | 154 | 156 | 154 | 155 | 138 | 161 | 165 | 143 | 174 | 157 | 172 | 247 | 154 | 161 | | |
| S.Rev 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 34 | 35 | 34 | 36 | 32 | 12 | 5 | 5 | 4 | 4 | 4 | 5 | 4 |
| S.Rev 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 | 1 | 1 | 0 | 0 | 1 | 69 | 0 | 0 | | |
| S.Rev CCGT-Gas | | 1092 | 932 | 1027 | 1288 | 1190 | 1355 | 1716 | 1851 | 2102 | 2287 | 2402 | 2462 | 2428 | 2453 | 2384 | 2532 | 2712 | 2316 | 2383 | 2334 | 2212 | 2195 | 2263 | 2021 | 2231 | 2375 | 2359 | 1932 | 1705 | 1435 | 938 | 855 | 469 | 550 | 716 | 781 | 835 | 719 | 582 | 290 | 301 | 313 | 357 | 263 | 242 | 328 | 463 | 490 | | |
| S.Rev ST-Gas | | -1 | 64 | 61 | 61 | 61 | 61 | 61 | 62 | 62 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 62 | 62 | 62 | 62 | 61 | 60 | 61 | 61 | 61 | 26 | 26 | 27 | 27 | 27 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| S.Rev 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 | 253 | 231 | 231 | 232 | 233 | 153 | 97 | 98 | 99 | 99 | 96 | 100 | 2 | 0 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| S.Rev Co-Gen | | 43 | 45 | 47 | 46 | 46 | 35 | 36 | 34 | 34 | 33 | 26 | 0 | 0 | -2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -1 | 2 | -1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | -1 | 0 | 0 | -1 | 0 | 0 | |
| Syncon | | 977 | 1128 | 977 | 1128 | 1128 | 1128 | 1128 | 1128 | 977 | 977 | 1128 | 1128 | 1128 | 1078 | 1229 | 1229 | 1229 | 1078 | 1078 | 1078 | 1229 | 1229 | 1229 | 1229 | 1229 | 1229 | 1229 | 1078 | 1229 | 1078 | 1128 | 1128 | 766 | 853 | 1128 | 1128 | 1128 | 854 | 667 | 302 | 302 | 0 | 667 | 703 | 703 | 790 | 1128 | | | |
| Hydro | | 359 | 189 | 298 | 165 | 144 | 154 | 136 | 135 | 142 | 276 | 276 | 152 | 137 | 144 | 138 | 289 | 159 | 144 | 147 | 270 | 301 | 292 | 136 | 131 | 144 | 142 | 142 | 133 | 301 | 143 | 268 | 140 | 228 | 199 | 247 | 76 | 87 | 119 | 232 | 237 | 378 | 416 | 691 | 332 | 333 | 384 | 328 | 178 | | |
| S.Reserve Total | | 2643 | 2513 | 2568 | 2856 | 2738 | 2902 | 3250 | 3392 | 3641 | 3865 | 3916 | 3973 | 3929 | 3938 | 4142 | 4395 | 4611 | 4217 | 4088 | 3997 | 3832 | 3814 | 3874 | 3639 | 3887 | 3975 | 3949 | 3527 | 3548 | 3248 | 2747 | 2584 | 2267 | 1882 | 2127 | 2299 | 2365 | 2281 | 1965 | 1506 | 1161 | 1179 | 1228 | 1426 | 1458 | 1737 | 1743 | 1964 | | |