

Daily System Generation Summary on Saturday

Saturday, October 10, 2015

Availability at Daily Maximum Demand Hour

| | |
|---------------------|------------------|
| ST-Coal | 2,050 MW |
| ST-Gas | 0 MW |
| ST-Oil | 0 MW |
| Gas | 4,092 MW |
| Hydro | 1,671 MW |
| Distillate | 0 MW |
| Total TNB | 7,813 MW |
| Total IPP | 9,251 MW |
| Total Co-Gen | 0 MW |
| Total System | 17,064 MW |

Generation Mix

| Type | MWh | Percentage |
|-------------------------|----------------|-----------------|
| ST-Coal | 48,650 | 15.60 % |
| Gas | 70,166 | 22.50 % |
| Hydro | 13,064 | 4.19 % |
| Total TNB | 131,880 | 42.29 % |
| ST-Coal | 97,385 | 31.23 % |
| ST-Gas | 5,457 | 1.75 % |
| Gas | 75,503 | 24.21 % |
| Total IPP | 178,345 | 57.19 % |
| Co-Gen | 932 | 0.30 % |
| Total Co-Gen | 932 | 0.30 % |
| Total Generation | 311,157 | 99.77 % |
| PLTG | -4 | 0.00 % |
| EGAT | -2 | 0.00 % |
| HVDC | -700 | -0.22 % |
| Interconnection | -706 | -0.23 % |
| Net Energy | 311,863 | 100.00 % |

Maximum Demand Record

| | |
|-----------------|-------------|
| Date: 6/11/2014 | 16,901 MW |
| Date: 6/24/2014 | 355,911 MWH |

Set On Bus, TNB, IPP And MD

| | |
|-------------------------------|---------------|
| Daily Maximum Demand Hour at: | 19:30:00 Hour |
| Total Set On Bus | 15,580 MW |
| TNB Generation | 6,172 MW |
| IPP Generation | 8,263 MW |
| Spinning Reserve | 1,111 MW |
| Maximum Demand | 14,513 MW |
| Net Energy | 311,863 MWH |
| Load Factor | 89.54 % |

Fuel Cost

| | |
|---------------|------------------|
| Total Cost: | 43,906,219.30 RM |
| Cost per Unit | 14.72 cents/kWH |

Average Spinning Reserve During Peak Hour

| Type | MW |
|--------------|--------------|
| GT | 322 |
| Hydro | 187 |
| Syncon | 572 |
| Thermal | 46 |
| Total | 1,127 |

Time Weather Temperature

| Time | Weather | Temperature |
|-----------|---------|-------------|
| Afternoon | Hot | 33 |
| Morning | Cloudy | 26 |

Gas Usage

| Station | (mmscfd) |
|---------------------------|--------------|
| CBPS | 62 |
| GLGR | 55 |
| NPRI | 1 |
| PAKA | 187 |
| PGPS | 10 |
| SRDG | 7 |
| TJGS | 215 |
| Total TNB | 539 |
| KLPP | 41 |
| MPSS | 59 |
| PDPS | 8 |
| PGLA | 113 |
| PKLG | 7 |
| PKLG | 55 |
| PLPS | 101 |
| PTEK | 8 |
| SGB3 | 80 |
| SGRI | 186 |
| Total IPP | 657 |
| Total Gas | 1,195 |
| Total Gas Required | 1,195 |

Alternate Fuel Usage

| Station | (mmscfd) |
|--------------|----------|
| Total | 0 |

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 | 13129 | 12477 | 12066 | 11639 | 11460 | 11323 | 11331 | 11040 | 11020 | 12252 | 13129 | 13897 | 13866 | 13544 | 13963 | 14067 | 14129 | 13745 | 13312 | 13691 | 14510 | 14344 | 13963 | 13662 |

Prepared By: Kannathason a/i Karuppiyah

Checked By: Siti Nurhamizatul Aini

Printed on: Sunday, October 11, 2015 10:00:44 AM
 (Gurcharan Singh)
 AMPengurus Besar Kanan
 Jabatan Sistem Operasi

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 |
|------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| LPIA | HY01 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| LPIA | HY02 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| MNOR | HY01 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| PGAU | 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 |
| PGAU | HY02 | -1 | -1 | -1 | 20 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | 22 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 |
| PGAU | HY04 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | 21 | -1 | 80 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 |
| SIHY | HY01 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | |
| SIHY | HY02 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | |
| 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 | 55 | 53 | 35 | 33 | 28 | 38 | 42 | 35 | 32 | 27 | 84 | 41 | 84 | 37 | 30 | 33 | 56 | 75 | 78 | 68 | 0 | 0 | 0 | 0 |
| 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 | -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 |
| UPIA | HY02 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Total Hydro | | 310 | 303 | 306 | 322 | 292 | 290 | 270 | 261 | 254 | 249 | 285 | 228 | 284 | 280 | 191 | 197 | 225 | 261 | 344 | 618 | 495 | 554 | 784 | 729 |
| 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 |
| PCUF | CUFK | 36 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 36 | 37 | 38 | 38 | 38 | 36 | 35 | 35 | 33 | 34 | 33 | 34 | 27 | 27 | 28 | 27 |
| PCUF | CUFK | 7 | 8 | 7 | 5 | 6 | 7 | 7 | 6 | 7 | 7 | 8 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 6 |
| Total Co-Gen | | 43 | 43 | 42 | 40 | 41 | 42 | 42 | 41 | 43 | 43 | 45 | 44 | 43 | 44 | 46 | 44 | 45 | 43 | 43 | 40 | 42 | 40 | 42 | 40 |
| Total Gen | | 13172 | 12625 | 12431 | 12248 | 12082 | 11804 | 11567 | 11482 | 11485 | 11359 | 11227 | 11232 | 11221 | 11337 | 11042 | 10814 | 10972 | 11603 | 12185 | 12748 | 13128 | 13440 | 13845 | 13990 |
| 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 |
| TIE-HVDC | | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -30 | -30 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 | -29 |
| TIE-PLTG | | 72 | -67 | -18 | 41 | 45 | -64 | -43 | 51 | 24 | 45 | -67 | -12 | -80 | -11 | 32 | 17 | -19 | 13 | -38 | 48 | 28 | 1 | -23 | |
| Interconnection | | 43 | -96 | -46 | 12 | 16 | -93 | -72 | 22 | -5 | 15 | -96 | -41 | -110 | -40 | 2 | -13 | -48 | -16 | -67 | 19 | -1 | -28 | -52 | |
| System Total | | 13129 | 12721 | 12477 | 12236 | 12066 | 11897 | 11639 | 11460 | 11344 | 11233 | 11273 | 11351 | 11377 | 11040 | 10827 | 11020 | 11619 | 12252 | 12729 | 13129 | 13468 | 13897 | 14010 | |
| SRev ST-Coal | | 47 | 44 | 35 | 42 | 65 | 16 | 25 | 46 | 40 | 98 | 10 | 35 | -3 | 64 | 33 | 42 | 38 | 33 | -9 | 60 | 16 | 24 | 37 | |
| 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 |
| SRev CCGT-Gas | | 352 | 386 | 398 | 632 | 746 | 1044 | 1222 | 1276 | 1304 | 1337 | 1558 | 1470 | 1574 | 1388 | 1504 | 1584 | 1823 | 994 | 358 | 546 | 399 | 288 | 222 | |
| SRev ST-Gas | | 1 | 40 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| SRev Co-Gen | | 1 | 1 | 2 | 4 | 3 | 2 | 2 | 3 | 1 | 1 | -1 | 0 | 0 | -2 | 0 | 0 | -1 | 1 | 1 | 4 | 2 | 4 | 2 | |
| Syncon | | 838 | 838 | 838 | 687 | 838 | 838 | 838 | 838 | 838 | 838 | 838 | 838 | 838 | 838 | 838 | 838 | 838 | 838 | 838 | 838 | 838 | 838 | 838 | 838 |
| Hydro | | 120 | 127 | 124 | 259 | 138 | 140 | 160 | 169 | 176 | 181 | 45 | 253 | 46 | 201 | 139 | 133 | 105 | 69 | 85 | 242 | 114 | 206 | 127 | |
| S.Reserve Total | | 1359 | 1436 | 1434 | 1661 | 1827 | 2077 | 2284 | 2369 | 2396 | 2492 | 2487 | 2482 | 2493 | 2377 | 2549 | 2634 | 2540 | 1972 | 1310 | 1478 | 1304 | 1132 | 1010 | |