

Daily System Generation Summary on Friday

Friday, October 30, 2015

Availability at Daily Maximum Demand Hour

| | |
|---------------------|------------------|
| ST-Coal | 2,390 MW |
| ST-Gas | 0 MW |
| ST-Oil | 0 MW |
| Gas | 2,845 MW |
| Hydro | 1,847 MW |
| Distillate | 0 MW |
| Total TNB | 7,082 MW |
| Total IPP | 10,666 MW |
| Total Co-Gen | 20 MW |
| Total System | 18,338 MW |

Generation Mix

| Type | MWh | Percentage |
|-------------------------|----------------|-----------------|
| ST-Coal | 53,665 | 16.41 % |
| Gas | 52,374 | 16.01 % |
| Hydro | 10,255 | 3.14 % |
| Total TNB | 116,294 | 35.55 % |
| ST-Coal | 118,989 | 36.38 % |
| Gas | 89,923 | 27.49 % |
| Total IPP | 208,912 | 63.87 % |
| Co-Gen | 195 | 0.06 % |
| Total Co-Gen | 195 | 0.06 % |
| Total Generation | 325,401 | 99.48 % |
| PLTG | -306 | -0.09 % |
| EGAT | -33 | -0.01 % |
| HVDC | -1,364 | -0.42 % |
| Interconnection | -1,703 | -0.52 % |
| Net Energy | 327,104 | 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: | 11:30:00 Hour |
| Total Set On Bus | 16,603 MW |
| TNB Generation | 5,689 MW |
| IPP Generation | 9,629 MW |
| Spinning Reserve | 1,278 MW |
| Maximum Demand | 15,396 MW |
| Net Energy | 327,104 MWH |
| Load Factor | 88.53 % |

Fuel Cost

| | |
|---------------|------------------|
| Total Cost: | 44,184,376.50 RM |
| Cost per Unit | 14.02 cents/kWH |

Average Spinning Reserve During Peak Hour

| Type | MW |
|--------------|--------------|
| GT | 387 |
| Hydro | 327 |
| Syncon | 559 |
| Thermal | 131 |
| Total | 1,404 |

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

Gas Usage

| Station | (mmscfd) |
|------------------|------------|
| CBPS | 17 |
| CBPS | 58 |
| GLGR | 54 |
| NPRI | 13 |
| PAKA | 140 |
| PGGS | 15 |
| SRDG | 20 |
| TJGS | 109 |
| Total TNB | 425 |

| | |
|------------------|--------------|
| KLPP | 110 |
| MPSS | 58 |
| PDPS | 19 |
| PGLA | 112 |
| PKLG | 22 |
| PLPS | 95 |
| PTEK | 17 |
| SGB3 | 56 |
| SGRI | 183 |
| SKSP | 49 |
| Total IPP | 720 |
| Total Gas | 1,145 |

Total Gas Required 1,145

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 | 13353 | 12655 | 12221 | 11821 | 11455 | 11477 | 11574 | 11476 | 12073 | 13747 | 14694 | 15216 | 15159 | 14635 | 14890 | 15391 | 15356 | 14944 | 14078 | 14379 | 14673 | 14414 | 13882 | 13386 |

Prepared By: Kannathason a/i Karuppiah

Checked By: Siti Nurhamizatul Aini

Printed on: Saturday, October 31, 2015 11:34:28 AM

(Gurcharan Singh)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Friday

| 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 | 701 | 699 | 699 | 701 | 703 | 701 | 700 | 701 | 700 | 700 | 702 | 698 | 700 | 699 | 698 | 698 | 699 | 699 | 701 | 699 | 701 | 698 | 698 | 697 | 696 | 699 | 698 | 697 | 698 | 701 | 698 | 698 | 698 | 697 | 694 | 697 | 701 | 702 | 699 | 697 | 702 | 697 | 699 | 699 | 698 | 698 | | | | | |
| JMAH | U002 | 703 | 708 | 702 | 704 | 706 | 705 | 701 | 701 | 705 | 704 | 703 | 702 | 704 | 703 | 703 | 703 | 703 | 702 | 701 | 705 | 708 | 703 | 701 | 703 | 704 | 701 | 703 | 704 | 701 | 703 | 704 | 701 | 703 | 704 | 701 | 703 | 702 | 705 | 703 | 706 | 702 | 709 | 705 | 708 | 703 | 705 | | | | | |
| JMJG | U001 | 683 | 685 | 691 | 673 | 686 | 673 | 682 | 678 | 686 | 681 | 683 | 679 | 691 | 695 | 681 | 689 | 681 | 678 | 678 | 682 | 689 | 687 | 683 | 679 | 676 | 645 | 645 | 646 | 640 | 641 | 643 | 646 | 650 | 649 | 648 | 644 | 643 | 646 | 645 | 648 | 643 | 645 | 647 | 676 | 676 | 677 | 678 | 681 | | | |
| JMJG | U002 | 680 | 681 | 682 | 670 | 679 | 668 | 675 | 675 | 680 | 676 | 677 | 678 | 683 | 700 | 671 | 678 | 647 | 680 | 677 | 683 | 688 | 685 | 683 | 678 | 678 | 676 | 676 | 677 | 682 | 680 | 678 | 679 | 684 | 678 | 669 | 679 | 673 | 672 | 687 | 643 | 548 | 563 | 597 | 569 | 621 | 615 | 618 | 662 | | | |
| JMJG | U003 | 590 | 542 | 497 | 435 | 384 | 360 | 341 | 302 | 101 | 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 | | | |
| JMJG | U004 | 789 | 788 | 791 | 790 | 791 | 788 | 791 | 791 | 791 | 791 | 790 | 790 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | 791 | | | |
| PKLG | U003 | 277 | 277 | 282 | 282 | 280 | 280 | 283 | 283 | 279 | 279 | 283 | 283 | 281 | 281 | 279 | 279 | 282 | 278 | 279 | 282 | 282 | 280 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | | |
| PKLG | U004 | 281 | 281 | 280 | 280 | 281 | 281 | 277 | 277 | 277 | 277 | 279 | 279 | 279 | 279 | 280 | 280 | 281 | 281 | 281 | 282 | 282 | 278 | 279 | 282 | 282 | 280 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | 278 | |
| PKLG | U005 | 360 | 360 | 360 | 360 | 360 | 360 | 357 | 357 | 360 | 360 | 357 | 357 | 360 | 360 | 359 | 359 | 360 | 360 | 363 | 358 | 358 | 359 | 360 | 357 | 360 | 363 | 360 | 360 | 357 | 359 | 360 | 360 | 350 | 361 | 360 | 360 | 357 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | |
| PKLG | U006 | 469 | 469 | 467 | 467 | 465 | 465 | 469 | 469 | 465 | 465 | 467 | 467 | 468 | 468 | 469 | 469 | 468 | 467 | 464 | 468 | 468 | 466 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | 467 | | |
| TBDN | U001 | 696 | 696 | 697 | 696 | 700 | 696 | 696 | 698 | 697 | 698 | 700 | 696 | 697 | 697 | 699 | 698 | 697 | 697 | 698 | 694 | 700 | 699 | 699 | 696 | 697 | 697 | 699 | 696 | 698 | 694 | 697 | 699 | 698 | 698 | 698 | 700 | 694 | 700 | 696 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 |
| TBDN | U002 | 701 | 697 | 697 | 699 | 692 | 697 | 701 | 697 | 699 | 697 | 698 | 697 | 698 | 698 | 694 | 701 | 695 | 699 | 698 | 694 | 698 | 697 | 697 | 699 | 696 | 699 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 |
| TBDN | U003 | 546 | 554 | 552 | 627 | 632 | 632 | 632 | 630 | 633 | 630 | 634 | 633 | 633 | 634 | 701 | 652 | 654 | 693 | 684 | 698 | 701 | 696 | 699 | 697 | 697 | 697 | 696 | 698 | 695 | 696 | 698 | 699 | 698 | 699 | 678 | 691 | 695 | 699 | 697 | 698 | 700 | 698 | 697 | 699 | 695 | 703 | 695 | 695 | 695 | | |
| TBDN | U004 | 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 |
| Total ST-Coal | | 7476 | 7437 | 7397 | 7384 | 7359 | 7306 | 7305 | 7259 | 7076 | 6958 | 6971 | 6961 | 6986 | 7000 | 7029 | 6997 | 6953 | 7031 | 7008 | 7034 | 7079 | 7110 | 7107 | 7093 | 7209 | 7233 | 7235 | 7274 | 7277 | 7279 | 7291 | 7307 | 7289 | 7284 | 7255 | 7261 | 7206 | 7225 | 7228 | 7243 | 7159 | 7180 | 7214 | 7217 | 7268 | 7286 | 7271 | 7306 | | | |
| 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 | 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 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 |
| CBPS | GT1A | 98 | 98 | 88 | 87 | 88 | 87 | 88 | 87 | 87 | 87 | 88 | 87 | 87 | 87 | 87 | 98 | 98 | 97 | 97 | 97 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 95 | 96 | 97 | 96 | 97 | 98 | 98 | 98 | 98 | 87 | 68 | 69 | 96 | 96 | 96 | 96 | 96 | 96 | 87 | 87 | 88 | | | |
| CBPS | GT1B | 94 | 94 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 95 | 94 | 94 | 93 | 93 | 92 | 91 | 91 | 92 | 91 | 92 | 91 | 92 | 93 | 92 | 94 | 95 | 94 | 94 | 88 | 89 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 88 | 87 | 87 | 91 | | | |
| CBPS | ST1C | 102 | 102 | 93 | 93 | 93 | 91 | 91 | 90 | 90 | 90 | 90 | 91 | 90 | 90 | 90 | 102 | 103 | 103 | 102 | 102 | 100 | 100 | 101 | 101 | 101 | 101 | 100 | 100 | 101 | 101 | 102 | 102 | 100 | 101 | 101 | 91 | 89 | 93 | 100 | 101 | 101 | 101 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | |
| GLGR | GT01 | 105 | 105 | 75 | 68 | 68 | 67 | 69 | 67 | 68 | 68 | 68 | 68 | 70 | 69 | 68 | 87 | 104 | 103 | 103 | 102 | 102 | 102 | 102 | 103 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | | |
| GLGR | GT02 | 106 | 106 | 74 | 67 | 68 | 68 | 68 | 67 | 67 | 67 | 68 | 67 | 68 | 68 | 68 | 88 | 105 | 104 | 103 | 102 | 102 | 102 | 102 | 103 | 103 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | |
| GLGR | ST1C | 99 | 99 | 85 | 73 | 72 | 73 | 73 | 72 | 73 | 73 | 73 | 73 | 72 | 72 | 73 | 72 | 80 | 98 | 97 | 98 | 97 | 96 | 97 | 98 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | | |
| KLPP | GT11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 13 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | |
| KLPP | GT12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 13 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | |
| KLPP | GT13 | 130 | 136 | 107 | 70 | 70 | 70 | 70 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 98 | 127 | 130 | 130 | 133 | 133 | 133 | 134 | 135 | 136 | 135 | 135 | 135 | 134 | 134 | 135 | 136 | 135 | 135 | 134 | 135 | 134 | 135 | 134 | 135 | 134 | 135 | 134 | 135 | 136 | 135 | 136 | 137 | 135 | 119 | 118 | 119 |
| KLPP | GT14 | 143 | 143 | 112 | 74 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 76 | 76 | 101 | 138 | 142 | 140 | 141 | 141 | 141 | 141 | 141 | 143 | 142 | 142 | 143 | 141 | 142 | 142 | 142 | 145 | 143 | 141 | 143 | 142 | 142 | 141 | 143 | 142 | 144 | 144 | 142 | 143 | 131 | 130 | 129 | 132 | | |
| KLPP | GT15 | 148 | 148 | 120 | 79 | 78 | 78 | 78 | 77 | 77 | 78 | 78 | 78 | 78 | 78 | 78 | 106 | 143 | 148 | 148 | 152 | 152 | 150 | 150 | 148 | 148 | 148 | 148 | 148 | 148 | 149 | 149 | 148 | 148 | 147 | 147 | 146 | 146 | 147 | 147 | 149 | 149 | 149 | 131 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | |
| KLPP | ST17 | 197 | 197 | 181 | 153 | 144 | 144 | 147 | 147 | 149 | 149 | 147 | 147 | 147 | 147 | 177 | 197 | 200 | 222 | 230 | 230 | 231 | 231 | 230 | 230 | 227 | 227 | 228 | 228 | 227 | 227 | 229 | 229 | 229 | 227 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 226 | 202 | 198 | 199 | 190 | 192 | 192 | | |
| MPSS | GT01 | 103 | 103 | 103 | 73 | 67 | 67 | 67 | 68 | 68 | 67 | 69 | 67 | 68 | 68 | 69 | 68 | 87 | 103 | 102 | 102 | 102 | 101 | 100 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 103 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 |
| MPSS | GT02 | 105 | 105 | 105 | 77 | 70 | 70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

