

**Availability At Daily Maximum Demand Hour**

|                     |               |           |
|---------------------|---------------|-----------|
| ST-Coal             | 1,730         | MW        |
| ST-Gas              | 0             | MW        |
| ST-Oil              | 0             | MW        |
| Gas                 | 3,695         | MW        |
| Hydro               | 1,636         | MW        |
| Distillate          | 300           | MW        |
| <b>Total TNB</b>    | <b>7,361</b>  | <b>MW</b> |
| <b>Total IPP</b>    | <b>10,451</b> | <b>MW</b> |
| <b>Total Co-Gen</b> | <b>25</b>     | <b>MW</b> |
| <b>System Total</b> | <b>17,837</b> | <b>MW</b> |

**Set On Bus, TNB, IPP And MD**

|                                      |            |           |
|--------------------------------------|------------|-----------|
| At Daily Maximum Demand Hour : 15:30 |            |           |
| TNB Generation                       | 5,888      | MW        |
| IPP Generation                       | 9,479      | MW        |
| Total Set On Bus                     | 16,421     | MW        |
| Maximum Demand                       | 15,440     | MW        |
| Spinning Reserve                     | 1,029      | MW        |
| Net Energy                           | 326,075    | MWH       |
| Load Factor                          | 88.0       | %         |
| Total Cost                           | 58,876,844 | RM        |
| Cost per Unit                        | 18.77      | cents/kWH |

**Maximum Demand Record**

|        |            |               |
|--------|------------|---------------|
| Date : | 13/05/2013 | 16,562.0 MW   |
| Date : | 25/06/2013 | 345,254.0 MWH |

**Hourly System MW Generation**

|              | 0000  | 0100  | 0200  | 0300  | 0400  | 0500  | 0600  | 0700  | 0800  | 0900  | 1000  | 1100  | 1200  | 1300  | 1400  | 1500  | 1600  | 1700  | 1800  | 1900  | 2000  | 2100  | 2200  | 2300  |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| System Total | 13241 | 12737 | 12211 | 11872 | 11498 | 11479 | 11642 | 11463 | 12006 | 13638 | 14518 | 14963 | 14806 | 14323 | 14671 | 15281 | 15290 | 15012 | 13950 | 13665 | 14813 | 14559 | 14129 | 13785 |

**Gas Usage**

| Station          | (mmscfd)     |
|------------------|--------------|
| CBPS             | 63           |
| GLGR             | 61           |
| PAKA             | 155          |
| PGPS             | 16           |
| SRDG             | 18           |
| TJGS             | 162          |
| <b>TNB Total</b> | <b>476</b>   |
| KLPP             | 100          |
| MPSS             | 59           |
| PDPS             | 7            |
| PGLA             | 103          |
| PKLG             | 35           |
| PLPS             | 99           |
| PTEK             | 2            |
| SGB3             | 81           |
| SGRI             | 98           |
| SKSP             | 54           |
| YPGS             | 67           |
| YPKA             | 128          |
| <b>IPP Total</b> | <b>833</b>   |
| <b>Total Gas</b> | <b>1,309</b> |

Total Gas Required : 1,427  
Gas Calorific Value : 38.500

**Alternate Fuel Usage**

| Station      | (mmscfd)   |
|--------------|------------|
| KLPP         | 9          |
| PGLA         | 12         |
| PGPS         | 26         |
| PKLG         | 62         |
| SGB3         | 9          |
| <b>Total</b> | <b>118</b> |

**Generation Mix**

| Type                    | MWh              | Percentage      |
|-------------------------|------------------|-----------------|
| ST-Coal                 | 41,438.00        | 12.71 %         |
| Gas                     | 60,483.00        | 18.55 %         |
| Hydro                   | 11,805.00        | 3.62 %          |
| Distillate              | 3,128.00         | 0.96 %          |
| <b>Total TNB</b>        | <b>116,854.0</b> | <b>35.84 %</b>  |
| ST-Coal                 | 90,075.0         | 27.62 %         |
| ST-Gas                  | 3,383.0          | 1.04 %          |
| ST-Oil                  | 6,071.0          | 1.86 %          |
| Gas                     | 104,464.0        | 32.04 %         |
| Distillate              | 3,858.0          | 1.18 %          |
| <b>Total IPP</b>        | <b>207,851.0</b> | <b>63.74 %</b>  |
| Co-Gen                  | 775.0            | 0.24 %          |
| <b>Total Co-Gen</b>     | <b>775.0</b>     | <b>0.24 %</b>   |
| <b>Total Generation</b> | <b>325,480.0</b> | <b>99.82 %</b>  |
| PLTG                    | 107.0            | 0.03 %          |
| HVDC                    | -702.0           | -0.22 %         |
| <b>Interconnection</b>  | <b>-595.0</b>    | <b>-0.18 %</b>  |
| <b>Net Energy</b>       | <b>326,075.0</b> | <b>100.00 %</b> |

**Average SR During Peak Hour**

| Type         | MW          |
|--------------|-------------|
| GT           | 378         |
| Hydro        | 254         |
| Syncon       | 318         |
| Thermal      | 88          |
| <b>Total</b> | <b>1037</b> |

|           | Weather | Temperature |
|-----------|---------|-------------|
| Morning   | Sunny   | 25          |
| Afternoon | Hot     | 35          |

| 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 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| PKLG          | U003 | 281  | 283  | 283  | 280  | 281  | 283  | 289  | 279  | 280  | 278  | 278  | 283  | 282  | 283  | 278  | 280  | 277  | 283  | 280  | 288  | 280  | 282  | 280  | 280  | 280  | 281  | 279  | 279  | 281  | 283  | 283  | 281  | 281  | 281  | 283  | 279  | 281  | 283  | 281  | 279  | 279  | 277  | 279  |      |      |      |      |      |     |     |     |     |     |
| PKLG          | U004 | 282  | 281  | 279  | 279  | 281  | 280  | 276  | 276  | 278  | 281  | 282  | 286  | 284  | 280  | 284  | 280  | 282  | 281  | 282  | 282  | 284  | 278  | 280  | 284  | 282  | 280  | 280  | 282  | 280  | 280  | 282  | 280  | 280  | 278  | 282  | 282  | 284  | 282  | 280  | 280  | 282  | 284  | 284  | 286  | 286  |      |      |      |     |     |     |     |     |
| PKLG          | U006 | 467  | 447  | 371  | 356  | 339  | 437  | 467  | 464  | 467  | 464  | 464  | 464  | 467  | 467  | 464  | 470  | 463  | 469  | 466  | 466  | 466  | 466  | 466  | 467  | 467  | 467  | 467  | 470  | 470  | 470  | 470  | 467  | 467  | 467  | 467  | 467  | 467  | 467  | 467  | 470  | 464  | 464  | 467  | 467  |      |      |      |      |     |     |     |     |     |
| JMJG          | U001 | 349  | 348  | 349  | 350  | 350  | 350  | 349  | 349  | 349  | 351  | 350  | 349  | 349  | 351  | 349  | 349  | 348  | 349  | 349  | 348  | 351  | 349  | 349  | 348  | 350  | 350  | 348  | 352  | 348  | 352  | 350  | 341  | 345  | 344  | 345  | 345  | 345  | 344  | 345  | 347  | 345  | 344  | 344  | 345  | 346  |      |      |      |     |     |     |     |     |
| JMJG          | U002 | 690  | 693  | 690  | 687  | 690  | 690  | 678  | 684  | 687  | 686  | 686  | 688  | 691  | 686  | 684  | 684  | 688  | 685  | 686  | 685  | 686  | 685  | 686  | 688  | 690  | 692  | 688  | 690  | 689  | 695  | 689  | 688  | 691  | 689  | 689  | 691  | 691  | 690  | 691  | 690  | 688  | 692  | 690  | 688  | 689  | 691  | 688  | 691  | 689 |     |     |     |     |
| JMJG          | U003 | 692  | 688  | 690  | 691  | 673  | 690  | 690  | 689  | 690  | 689  | 691  | 689  | 690  | 689  | 693  | 691  | 690  | 691  | 688  | 690  | 691  | 688  | 691  | 691  | 690  | 691  | 690  | 691  | 690  | 689  | 689  | 689  | 693  | 692  | 688  | 698  | 691  | 693  | 693  | 687  | 691  | 693  | 690  | 692  | 696  | 686  | 690  | 690  |     |     |     |     |     |
| TBIN          | U001 | 673  | 673  | 672  | 673  | 673  | 673  | 671  | 672  | 674  | 674  | 672  | 672  | 674  | 673  | 673  | 675  | 675  | 676  | 672  | 673  | 669  | 676  | 673  | 675  | 676  | 673  | 672  | 674  | 675  | 672  | 673  | 674  | 673  | 672  | 672  | 675  | 676  | 675  | 672  | 673  | 673  | 671  | 673  | 672  | 673  | 672  | 673  |      |     |     |     |     |     |
| TBIN          | U002 | 685  | 683  | 679  | 676  | 680  | 678  | 682  | 676  | 682  | 681  | 681  | 680  | 680  | 680  | 678  | 680  | 683  | 682  | 681  | 680  | 680  | 681  | 681  | 678  | 683  | 683  | 680  | 678  | 682  | 681  | 679  | 678  | 681  | 679  | 682  | 680  | 680  | 680  | 681  | 680  | 681  | 680  | 681  | 679  | 682  | 676  | 676  | 682  | 676 |     |     |     |     |
| TBIN          | U003 | 675  | 676  | 673  | 675  | 674  | 675  | 675  | 675  | 675  | 674  | 672  | 676  | 677  | 674  | 674  | 676  | 678  | 678  | 673  | 675  | 672  | 678  | 672  | 673  | 680  | 675  | 675  | 673  | 677  | 675  | 676  | 674  | 678  | 676  | 679  | 672  | 676  | 677  | 675  | 675  | 675  | 677  | 674  | 676  | 676  | 676  | 676  | 676  |     |     |     |     |     |
| JMAH          | U002 | 705  | 703  | 703  | 703  | 703  | 704  | 702  | 702  | 710  | 699  | 706  | 703  | 703  | 704  | 704  | 705  | 705  | 704  | 703  | 703  | 703  | 697  | 711  | 705  | 708  | 702  | 703  | 701  | 707  | 701  | 703  | 699  | 703  | 702  | 702  | 707  | 703  | 702  | 707  | 700  | 701  | 707  | 700  | 701  | 701  | 703  | 705  | 707  | 707 |     |     |     |     |
| Total ST-Coal |      | 5499 | 5475 | 5389 | 5370 | 5344 | 5460 | 5480 | 5466 | 5492 | 5477 | 5483 | 5486 | 5495 | 5478 | 5486 | 5482 | 5505 | 5490 | 5485 | 5479 | 5477 | 5482 | 5497 | 5495 | 5518 | 5488 | 5486 | 5486 | 5506 | 5477 | 5491 | 5486 | 5493 | 5486 | 5489 | 5504 | 5487 | 5483 | 5497 | 5486 | 5488 | 5490 | 5483 | 5491 | 5484 | 5478 | 5488 | 5495 |     |     |     |     |     |
| PKLG          | U001 | 284  | 283  | 273  | 195  | 145  | 143  | 143  | 143  | 143  | 143  | 143  | 143  | 151  | 151  | 151  | 152  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   |     |     |     |     |
| PKLG          | U002 | 202  | 202  | 192  | 144  | 144  | 144  | 144  | 144  | 143  | 143  | 143  | 166  | 195  | 201  | 205  | 208  | 200  | 201  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 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  |      | 486  | 485  | 465  | 339  | 289  | 287  | 287  | 287  | 286  | 286  | 286  | 309  | 338  | 344  | 356  | 359  | 351  | 353  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   |     |     |     |
| PKLG          | U001 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 206  | 277  | 283  | 284  | 283  | 284  | 261  | 235  | 235  | 237  | 238  | 236  | 236  | 244  | 264  | 284  | 284  | 284  | 284  | 283  | 283  | 283  | 283  | 283  | 283  | 283  | 283  | 283  | 283  | 283  |     |     |     |     |     |
| PKLG          | U002 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 201  | 200  | 201  | 200  | 144  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146  | 146 | 146 | 146 |     |     |
| Total ST-Oil  |      | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 407  | 477  | 484  | 484  | 427  | 430  | 407  | 381  | 381  | 383  | 384  | 382  | 382  | 390  | 410  | 430  | 430  | 429  | 485  | 486  | 486  | 486  | 486  | 486  | 486  | 486  | 486  | 486  | 486  | 486  | 486 |     |     |     |     |
| CBPS          | GT1A | 99   | 98   | 95   | 88   | 88   | 88   | 88   | 88   | 88   | 88   | 88   | 88   | 88   | 99   | 99   | 99   | 99   | 99   | 99   | 99   | 99   | 99   | 99   | 99   | 98   | 98   | 98   | 96   | 96   | 98   | 98   | 98   | 98   | 98   | 98   | 88   | 88   | 99   | 98   | 98   | 99   | 99   | 98   | 99   | 99   | 98   | 99   | 98   |     |     |     |     |     |
| CBPS          | GT1B | 94   | 93   | 91   | 88   | 88   | 88   | 88   | 88   | 88   | 88   | 88   | 88   | 88   | 95   | 95   | 95   | 95   | 95   | 95   | 95   | 95   | 95   | 95   | 94   | 93   | 94   | 94   | 92   | 91   | 92   | 92   | 91   | 91   | 90   | 91   | 91   | 91   | 88   | 87   | 93   | 93   | 94   | 94   | 94   | 93   | 94   | 94   | 94   | 94  |     |     |     |     |
| CBPS          | ST1C | 104  | 103  | 102  | 91   | 92   | 91   | 92   | 92   | 92   | 91   | 91   | 92   | 91   | 101  | 101  | 102  | 103  | 103  | 103  | 103  | 103  | 102  | 101  | 101  | 100  | 100  | 97   | 97   | 99   | 99   | 99   | 99   | 100  | 94   | 93   | 101  | 102  | 102  | 102  | 102  | 102  | 102  | 102  | 102  | 102  | 102  | 102  | 102  | 102 |     |     |     |     |
| GLGR          | GT01 | 107  | 106  | 106  | 91   | 80   | 80   | 81   | 80   | 79   | 79   | 81   | 79   | 79   | 79   | 81   | 109  | 108  | 108  | 108  | 108  | 107  | 106  | 105  | 106  | 104  | 106  | 106  | 104  | 104  | 104  | 104  | 104  | 104  | 105  | 105  | 105  | 105  | 105  | 106  | 106  | 106  | 106  | 106  | 106  | 106  | 106  | 106  | 106  | 106 | 106 |     |     |     |
| GLGR          | GT02 | 112  | 112  | 112  | 93   | 84   | 84   | 84   | 84   | 84   | 84   | 84   | 84   | 84   | 83   | 115  | 114  | 113  | 113  | 112  | 111  | 112  | 111  | 110  | 111  | 110  | 111  | 110  | 109  | 109  | 109  | 109  | 109  | 109  | 109  | 109  | 109  | 109  | 109  | 109  | 109  | 109  | 109  | 109  | 109  | 109  | 109  | 109  | 109  | 109 | 109 |     |     |     |
| GLGR          | ST1C | 101  | 101  | 101  | 92   | 82   | 82   | 82   | 82   | 82   | 82   | 82   | 82   | 82   | 82   | 83   | 82   | 82   | 82   | 83   | 99   | 101  | 101  | 101  | 101  | 101  | 101  | 100  | 101  | 100  | 101  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 |     |     |     |
| KLPP          | GT11 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 8    | 19   | 25   | 30   | 30   | 32   | 32   | 32   | 32   | 32   | 31   | 31   | 31   | 31   | 31   | 31   | 31   | 31   | 31   | 31   | 31   | 31   | 31   | 31   | 31   | 31   | 31   | 31   | 31   | 31   | 31  | 31  | 31  |     |     |
| KLPP          | GT12 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 5    | 6    | 8    | 11   | 11   | 17   | 17   | 17   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18  | 18  | 18  | 18  |     |
| KLPP          | GT13 | 145  | 144  | 145  | 127  | 115  | 107  | 71   | 71   | 72   | 71   | 72   | 72   | 72   | 71   | 71   | 72   | 83   | 108  | 137  | 146  | 146  | 147  | 146  | 146  | 146  | 145  | 120  | 117  | 140  | 141  | 140  | 119  | 118  | 118  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119 | 119 | 119 | 119 |     |
| KLPP          | GT14 | 148  | 148  | 135  | 135  | 112  | 112  | 73   | 73   | 73   | 73   | 74   | 74   | 73   | 73   | 73   | 104  | 104  | 147  | 147  | 149  | 149  | 149  | 149  | 149  | 148  | 148  | 113  | 113  | 134  | 134  | 122  | 122  | 112  | 112  | 85   | 85   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   |
| KLPP          | GT15 | 148  | 147  | 148  | 128  | 114  | 114  | 73   | 73   | 73   | 73   | 73   | 74   | 74   | 74   | 74   | 73   | 108  | 141  | 148  | 148  | 149  | 148  | 149  | 149  | 149  | 148  | 148  | 137  | 118  | 143  | 143  | 143  | 143  | 119  | 118  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119  | 119 | 119 | 119 | 119 | 119 |
| KLPP          | ST17 | 210  | 211  | 210  | 199  | 188  | 187  | 143  | 139  | 141  | 142  | 141  | 142  | 141  | 142  | 143  | 145  | 145  | 184  | 211  | 239  | 239  | 237  | 237  | 240  | 236  | 236  | 220  | 214  | 224  | 229  | 228  | 220  | 213  | 215  | 217  | 196  | 213  | 211  | 211  | 225  | 225  | 225  | 225  | 225  | 225  | 220  | 199  | 185  | 185 | 185 | 185 |     |     |
| MPSS          | GT01 | 106  | 106  | 109  | 91   | 65   | 67   | 67   | 65   | 66   | 67   | 66   | 66   | 67   | 67   | 67   | 88   | 109  | 108  | 108  | 109  | 110  | 110  | 111  | 111  | 111  | 111  | 111  | 111  | 111  | 110  | 109  | 107  | 109  | 108  | 106  | 106  | 107  | 106  | 106  | 106  | 106  | 106  | 106  | 106  | 106  | 106  | 106  | 106  | 106 | 106 | 106 | 106 |     |
| MPSS          | GT02 | 109  | 109  | 110  | 91   | 68   | 69   | 70   | 69   | 68   | 69   | 68   | 69   | 70   | 67   | 68   | 88   | 110  | 110  | 109  | 110  | 111  | 111  | 111  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |





*Daily MW Generation On Friday*
*18-Apr-2014*

| 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 |      |     |      |      |      |      |     |      |      |     |      |     |      |      |      |     |     |     |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|-----|------|------|-----|------|-----|------|------|------|-----|-----|-----|------|------|------|------|------|------|
| S.Reserve Total |      | 1015 | 1402 | 1188 | 1418 | 1506 | 1735 | 1979 | 2067 | 2275 | 2202 | 2331 | 2374 | 2261 | 2182 | 2473 | 2606 | 2119 | 2059 | 1393 | 1246 | 979  | 1046 | 959  | 942  | 1059 | 971 | 1189 | 1168 | 1084 | 1018 | 962 | 1029 | 1070 | 937 | 1017 | 892 | 1392 | 1636 | 1774 | 921 | 767 | 964 | 1001 | 1130 | 1068 | 1084 | 1082 | 1250 |