

Availability at Daily Maximum Demand Hour

| | |
|---------------------|------------------|
| ST-Coal | 0 MW |
| ST-Gas | 0 MW |
| ST-Oil | 0 MW |
| Gas | 3,745 MW |
| Hydro | 2,144 MW |
| Distillate | 0 MW |
| Total TNB | 5,889 MW |
| Total IPP | 14,102 MW |
| Total Co-Gen | 55 MW |
| Total System | 20,610 MW |

Generation Mix

| Type | MWh | Percentage |
|-------------------------|----------------|-----------------|
| Gas | 51,129 | 15.16 % |
| Hydro | 13,216 | 3.92 % |
| Total TNB | 64,345 | 19.08 % |
| ST-Coal | 160,430 | 47.57 % |
| Gas | 111,406 | 33.04 % |
| Total IPP | 271,836 | 80.61 % |
| Co-Gen | 1,078 | 0.32 % |
| Total Co-Gen | 1,078 | 0.32 % |
| Total Generation | 337,259 | 100.01 % |
| PLTG | -686 | -0.20 % |
| HVDC | 724 | 0.21 % |
| Interconnection | 38 | 0.01 % |
| Net Energy | 337,221 | 100.00 % |

Maximum Demand Record

| | |
|-----------------|-------------|
| Date: 4/20/2016 | 17,788 MW |
| Date: 4/20/2016 | 372,457 MWH |

Set On Bus, TNB, IPP And MD

| | |
|-------------------------------|---------------|
| Daily Maximum Demand Hour at: | 16:00:00 Hour |
| Total Set On Bus | 17,724 MW |
| TNB Generation | 3,665 MW |
| IPP Generation | 12,515 MW |
| Spinning Reserve | 1,508 MW |
| Maximum Demand | 16,196 MW |
| Net Energy | 337,221 MWH |
| Load Factor | 86.76 % |

Fuel Cost

| | |
|---------------|------------------|
| Total Cost: | 46,138,707.10 RM |
| Cost per Unit | 14.24 cents/kWH |

Average Spinning Reserve During Peak Hour

| Type | MW |
|--------------|--------------|
| GT | 519 |
| Hydro | 194 |
| Syncon | 606 |
| Thermal | 208 |
| Total | 1,527 |

| Time | Weather | Temperature |
|-----------|---------|-------------|
| Afternoon | Cloudy | 33 |
| Morning | Cloudy | 28 |

Gas Usage

| Station | (mmscfd) |
|---------------------------|--------------|
| CBPS | 47 |
| GLGR | 58 |
| PGPS | 50 |
| SRDG | 18 |
| TJGS | 209 |
| Total TNB | 382 |
| CBPS | 53 |
| KLPP | 96 |
| MPSS | 30 |
| NPRI | 143 |
| PDPS | 6 |
| PGLA | 110 |
| PLPS | 89 |
| PTEK | 25 |
| SGB3 | 61 |
| SGRI | 182 |
| SKSP | 51 |
| Total IPP | 846 |
| Total Gas | 1,229 |
| Total Gas Required | 1,229 |

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 | 13372 | 12655 | 12195 | 11880 | 11684 | 11531 | 11835 | 11923 | 12218 | 13888 | 14773 | 15425 | 15530 | 15219 | 15890 | 16170 | 16196 | 15858 | 14638 | 14376 | 15264 | 15155 | 14778 | 14315 |

Daily MW Generation on Thursday

| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|---|
| TMGR | HY04 | 31 | 32 | 32 | 33 | 34 | 32 | 33 | 32 | 32 | 31 | 32 | 33 | 35 | 35 | 35 | 35 | 35 | 33 | 33 | 36 | 84 | 85 | 83 | 82 | -1 | -1 | -1 | 70 | 82 | 82 | 82 | 82 | 63 | 61 | 36 | -1 | -1 | -1 | 59 | 62 | 62 | 60 | 35 | -1 | -1 | -1 | -1 | | | |
| UJLI | 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 | 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 | |
| UPIA | HY02 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| Total Hydro | | 161 | 151 | 174 | 153 | 155 | 351 | 391 | 389 | 389 | 388 | 387 | 390 | 393 | 393 | 417 | 394 | 388 | 409 | 384 | 384 | 392 | 753 | 666 | 918 | 983 | 736 | 535 | 812 | 908 | 948 | 1035 | 1084 | 1185 | 957 | 758 | 291 | 197 | 199 | 205 | 814 | 1044 | 1039 | 1027 | 760 | 412 | 380 | 232 | 228 | | |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PCUF | CUFG | 31 | 31 | 31 | 31 | 32 | 32 | 30 | 30 | 32 | 31 | 31 | 32 | 33 | 32 | 30 | 30 | 28 | 27 | 27 | 27 | 27 | 28 | 25 | 25 | 24 | 26 | 25 | 20 | 20 | 19 | 27 | 27 | 27 | 27 | 29 | 29 | 29 | 28 | 28 | 28 | 28 | 28 | 27 | 28 | 26 | 29 | | | | |
| PCUF | CUFK | 17 | 17 | 16 | 17 | 17 | 15 | 17 | 17 | 16 | 17 | 16 | 18 | 17 | 16 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 15 | 17 | 16 | 16 | 17 | 16 | 17 | 16 | 16 | 17 | 17 | 17 | 17 | 18 | 19 | 17 | 17 | 18 | 19 | 17 | 17 | 16 | 17 | 17 | 17 | 17 | 17 | | |
| Total Co-Gen | | 48 | 48 | 47 | 48 | 49 | 47 | 47 | 48 | 48 | 48 | 48 | 49 | 49 | 47 | 47 | 45 | 44 | 42 | 43 | 43 | 44 | 44 | 42 | 42 | 41 | 41 | 42 | 36 | 37 | 35 | 43 | 44 | 44 | 44 | 46 | 47 | 47 | 45 | 45 | 43 | 45 | 43 | 45 | 43 | 46 | | | | | |
| Total Gen | | 13349 | 12935 | 12629 | 12465 | 12207 | 12109 | 11822 | 11751 | 11709 | 11628 | 11533 | 11637 | 11846 | 12105 | 11982 | 11788 | 12202 | 13151 | 13888 | 14492 | 14738 | 15191 | 15359 | 15644 | 15569 | 15343 | 15189 | 15507 | 15881 | 16106 | 16179 | 16166 | 16216 | 16080 | 15876 | 15185 | 14652 | 14346 | 14392 | 14894 | 15279 | 15365 | 15209 | 14976 | 14726 | 14591 | 14307 | 14059 | | |
| 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 | 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 | |
| TIE-HVDC | | 31 | 31 | 30 | 30 | 31 | 31 | 29 | 29 | 31 | 31 | 31 | 31 | 29 | 29 | 30 | 30 | 31 | 31 | 30 | 30 | 30 | 30 | 29 | 29 | 31 | 31 | 31 | 31 | 30 | 30 | 30 | 30 | 30 | 29 | 29 | 31 | 31 | 30 | 30 | 30 | 30 | 31 | 31 | 30 | 30 | 30 | 30 | 30 | 30 | |
| TIE-PLTC | | -54 | -83 | -55 | 11 | -19 | -4 | -88 | -32 | -6 | -37 | -29 | -8 | -19 | -17 | 29 | -15 | -47 | -16 | -21 | -1 | -65 | -6 | -95 | -76 | 8 | 11 | -61 | -52 | -39 | -35 | -21 | -37 | -10 | -64 | -11 | -35 | -17 | -2 | -14 | -20 | -14 | 18 | 23 | -90 | -81 | -26 | -39 | -11 | | |
| Interconnection | | -23 | -52 | -26 | 40 | 12 | 27 | -58 | -3 | 25 | -6 | 2 | 22 | 11 | 12 | 59 | 15 | -16 | 15 | 10 | 29 | -35 | 23 | -66 | -47 | 39 | 42 | -30 | -21 | -9 | -6 | 9 | -7 | 20 | -34 | 18 | -5 | 14 | 28 | 16 | 11 | 15 | 47 | 54 | -59 | -52 | 4 | -8 | 19 | | |
| System Total | | 13372 | 12987 | 12655 | 12425 | 12195 | 12082 | 11880 | 11754 | 11684 | 11634 | 11531 | 11615 | 11835 | 12093 | 11923 | 11773 | 12218 | 13136 | 13888 | 14463 | 14773 | 15168 | 15425 | 15691 | 15530 | 15301 | 15219 | 15528 | 15890 | 16112 | 16170 | 16173 | 16196 | 16114 | 15858 | 15190 | 14638 | 14318 | 14376 | 14883 | 15264 | 15318 | 15155 | 15035 | 14778 | 14587 | 14315 | 14040 | | |
| S.Rev ST-Coal | | 106 | 123 | 115 | 164 | 192 | 188 | 218 | 221 | 219 | 211 | 217 | 212 | 221 | 180 | 177 | 181 | 198 | 187 | 115 | 117 | 130 | 133 | 206 | 241 | 231 | 225 | 253 | 231 | 250 | 238 | 239 | 238 | 227 | 228 | 242 | 244 | 220 | 235 | 229 | 239 | 245 | 178 | 221 | 236 | 245 | 224 | 239 | 236 | | |
| 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 | 92 | -5 | -1 | -3 | -2 | 0 | -1 | 120 | 8 | 62 | 180 | 186 | 174 | 81 | 48 | 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S.Rev CCGT-Gas | | 847 | 1234 | 1423 | 1518 | 1751 | 2047 | 2306 | 2362 | 2407 | 2493 | 2581 | 2491 | 2299 | 2102 | 2252 | 2420 | 1983 | 1523 | 1212 | 682 | 491 | 425 | 411 | 339 | 491 | 476 | 399 | 379 | 409 | 347 | 415 | 361 | 411 | 331 | 413 | 350 | 491 | 585 | 551 | 610 | 450 | 426 | 525 | 476 | 367 | 493 | 612 | 862 | | |
| S.Rev 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 |
| S.Rev Co-Gen | | 7 | 7 | 8 | 7 | 6 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 8 | 8 | 10 | 11 | 13 | 12 | 12 | 12 | 11 | 11 | 13 | 13 | 14 | 14 | 13 | 19 | 18 | 20 | 12 | 11 | 11 | 11 | 9 | 8 | 8 | 10 | 10 | 12 | 10 | 12 | 9 | | |
| Syncon | | 1080 | 1080 | 929 | 1080 | 1080 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | | |
| Hydro | | 139 | 149 | 277 | 147 | 145 | 151 | 111 | 113 | 113 | 114 | 115 | 112 | 109 | 109 | 236 | 108 | 114 | 244 | 118 | 118 | 110 | 75 | 162 | 170 | 190 | 189 | 390 | 176 | 315 | 275 | 188 | 240 | 262 | 292 | 391 | 223 | 107 | 105 | 99 | 434 | 154 | 159 | 171 | 168 | 144 | 176 | 193 | 197 | | |
| S.Reserve Total | | 2179 | 2593 | 2752 | 2916 | 3174 | 3272 | 3521 | 3582 | 3624 | 3703 | 3798 | 3700 | 3513 | 3276 | 3399 | 3593 | 3179 | 2689 | 2331 | 1805 | 1620 | 1465 | 1513 | 1400 | 1475 | 1638 | 1792 | 1537 | 1611 | 1386 | 1422 | 1435 | 1508 | 1446 | 1550 | 1743 | 2060 | 2012 | 1966 | 1796 | 1411 | 1325 | 1481 | 1529 | 1592 | 1727 | 2011 | 2259 | | |