

**Availability At Daily Maximum Demand Hour**

|                     |                  |
|---------------------|------------------|
| ST-Coal             | 1,380 MW         |
| ST-Gas              | 70 MW            |
| ST-Oil              | 0 MW             |
| Gas                 | 4,380 MW         |
| Hydro               | 1,514 MW         |
| Distillate          | 0 MW             |
| <b>Total TNB</b>    | <b>7,344 MW</b>  |
| <b>Total IPP</b>    | <b>9,668 MW</b>  |
| <b>Total Co-Gen</b> | <b>84 MW</b>     |
| <b>System Total</b> | <b>17,096 MW</b> |

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

|                                      |                 |
|--------------------------------------|-----------------|
| At Daily Maximum Demand Hour : 16:30 |                 |
| TNB Generation                       | 6,544 MW        |
| IPP Generation                       | 8,983 MW        |
| Total Set On Bus                     | 16,408 MW       |
| Maximum Demand                       | 15,635 MW       |
| Spinning Reserve                     | 797 MW          |
| Net Energy                           | 325,666 MWH     |
| Load Factor                          | 86.8 %          |
| Total Cost                           | 63,308,345 RM   |
| Cost per Unit                        | 20.21 cents/kWH |

**Maximum Demand Record**

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

**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 | 13102 | 12457 | 11963 | 11528 | 11191 | 11085 | 11300 | 11402 | 11636 | 13339 | 14198 | 14957 | 14940 | 14627 | 15263 | 15505 | 15623 | 15318 | 14042 | 13755 | 14925 | 14795 | 14453 | 14031 |

**Gas Usage**

| Station          | (mmscfd)     |
|------------------|--------------|
| CBPS             | 93           |
| GLGR             | 32           |
| PAKA             | 193          |
| PGPS             | 53           |
| SRDG             | 54           |
| TJGS             | 224          |
| <b>TNB Total</b> | <b>649</b>   |
| KLPP             | 116          |
| MPSS             | 57           |
| PDPS             | 43           |
| PGLA             | 117          |
| PKLG             | 83           |
| PLPS             | 73           |
| PTEK             | 38           |
| SGB3             | 61           |
| SGRI             | 190          |
| SKSP             | 54           |
| YPKA             | 131          |
| <b>IPP Total</b> | <b>965</b>   |
| <b>Total Gas</b> | <b>1,614</b> |

Total Gas Required : 1,614  
Gas Calorific Value : 38,500

**Generation Mix**

| Type                    | MWh              | Percentage      |
|-------------------------|------------------|-----------------|
| ST-Coal                 | 32,992.00        | 10.13 %         |
| Gas                     | 82,059.00        | 25.20 %         |
| Hydro                   | 11,461.00        | 3.52 %          |
| <b>Total TNB</b>        | <b>126,512.0</b> | <b>38.85 %</b>  |
| ST-Coal                 | 76,234.0         | 23.41 %         |
| ST-Gas                  | 8,061.0          | 2.48 %          |
| Gas                     | 111,703.0        | 34.30 %         |
| <b>Total IPP</b>        | <b>195,998.0</b> | <b>60.18 %</b>  |
| Co-Gen                  | 2,152.0          | 0.66 %          |
| <b>Total Co-Gen</b>     | <b>2,152.0</b>   | <b>0.66 %</b>   |
| <b>Total Generation</b> | <b>324,662.0</b> | <b>99.69 %</b>  |
| PLTG                    | -307.0           | -0.09 %         |
| HVDC                    | -697.0           | -0.21 %         |
| <b>Interconnection</b>  | <b>-1,004.0</b>  | <b>-0.31 %</b>  |
| <b>Net Energy</b>       | <b>325,666.0</b> | <b>100.00 %</b> |

**Average SR During Peak Hour**

| Type         | MW         |
|--------------|------------|
| GT           | 335        |
| Hydro        | 193        |
| Syncon       | 278        |
| Thermal      | 83         |
| <b>Total</b> | <b>888</b> |

|           | Weather | Temperature |
|-----------|---------|-------------|
| Morning   | Sunny   | 27          |
| Afternoon | Hot     | 36          |





| 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         |
|------------------------|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| PGAU                   | HY03 | -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                   | 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           |
| SIHY                   | 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            |
| SIHY                   | 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                   | 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 | 27           | 39           | 36           | 32           | 36           | 30           | 26           | 34           | 31           | 29           | 37           | 31           | 41           | 34           | 36           | 31           | 34           | 35           | 33           | 41           | 28           | 35           | 65           | 80           |
| TMGR                   | HY03 | -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                   | 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            |
| 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            |
| <b>Total Hydro</b>     |      | <b>167</b>   | <b>220</b>   | <b>216</b>   | <b>179</b>   | <b>180</b>   | <b>169</b>   | <b>163</b>   | <b>191</b>   | <b>197</b>   | <b>181</b>   | <b>200</b>   | <b>170</b>   | <b>221</b>   | <b>298</b>   | <b>217</b>   | <b>177</b>   | <b>176</b>   | <b>184</b>   | <b>188</b>   | <b>313</b>   | <b>509</b>   | <b>531</b>   | <b>790</b>   | <b>1079</b>  |
| PCUF                   | CUFG | 52           | 51           | 53           | 54           | 55           | 51           | 52           | 53           | 52           | 51           | 52           | 52           | 53           | 54           | 51           | 52           | 53           | 53           | 53           | 53           | 51           | 52           | 52           | 53           |
| PCUF                   | CUFK | 40           | 40           | 41           | 41           | 42           | 39           | 39           | 40           | 39           | 39           | 40           | 40           | 40           | 39           | 40           | 41           | 39           | 36           | 36           | 35           | 36           | 35           | 34           | 34           |
| <b>Total Co-Gen</b>    |      | <b>92</b>    | <b>91</b>    | <b>94</b>    | <b>95</b>    | <b>97</b>    | <b>90</b>    | <b>91</b>    | <b>95</b>    | <b>91</b>    | <b>90</b>    | <b>91</b>    | <b>92</b>    | <b>93</b>    | <b>92</b>    | <b>94</b>    | <b>91</b>    | <b>91</b>    | <b>93</b>    | <b>92</b>    | <b>91</b>    | <b>90</b>    | <b>88</b>    | <b>88</b>    |              |
| <b>Total Gen</b>       |      | <b>13075</b> | <b>12649</b> | <b>12356</b> | <b>12141</b> | <b>11852</b> | <b>11707</b> | <b>11532</b> | <b>11343</b> | <b>11145</b> | <b>11062</b> | <b>11026</b> | <b>11087</b> | <b>11243</b> | <b>11394</b> | <b>11306</b> | <b>11106</b> | <b>11586</b> | <b>12495</b> | <b>13279</b> | <b>13743</b> | <b>14185</b> | <b>14508</b> | <b>14855</b> | <b>15085</b> |
| 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               |      | -31          | -29          | -29          | -29          | -29          | -29          | -29          | -29          | -29          | -29          | -29          | -29          | -29          | -29          | -29          | -29          | -29          | -29          | -29          | -29          | -29          | -29          | -29          | -29          |
| TIE-PLTG               |      | 4            | -55          | -72          | -9           | -102         | 47           | 33           | -30          | -16          | 36           | -30          | -63          | -28          | -18          | -67          | -46          | -22          | -24          | -32          | -74          | 16           | -5           | -73          |              |
| <b>Interconnection</b> |      | <b>-27</b>   | <b>-84</b>   | <b>-101</b>  | <b>-38</b>   | <b>-131</b>  | <b>18</b>    | <b>4</b>     | <b>-59</b>   | <b>-46</b>   | <b>7</b>     | <b>-59</b>   | <b>-92</b>   | <b>-57</b>   | <b>-47</b>   | <b>-96</b>   | <b>-74</b>   | <b>-50</b>   | <b>-52</b>   | <b>-60</b>   | <b>-103</b>  | <b>-13</b>   | <b>-34</b>   | <b>-102</b>  |              |
| <b>System Total</b>    |      | <b>13102</b> | <b>12733</b> | <b>12457</b> | <b>12179</b> | <b>11963</b> | <b>11689</b> | <b>11528</b> | <b>11402</b> | <b>11191</b> | <b>11055</b> | <b>11085</b> | <b>11179</b> | <b>11300</b> | <b>11441</b> | <b>11402</b> | <b>11180</b> | <b>11636</b> | <b>12547</b> | <b>13339</b> | <b>13846</b> | <b>14198</b> | <b>14542</b> | <b>14957</b> |              |
| SRev ST-Coal           |      | 73           | 69           | 77           | 75           | 76           | 74           | 89           | 78           | 84           | 82           | 75           | 75           | 93           | 102          | 109          | 83           | 74           | 94           | 89           | 81           | 78           | 73           | 70           |              |
| SRev ST-Gas            |      | 5            | 85           | 77           | 74           | 74           | 74           | 74           | 74           | 74           | 74           | 74           | 74           | 74           | 31           | 32           | 37           | 5            | -4           | -4           | -4           | -1           | -4           | -4           | -78          |
| SRev CCGT-Gas          |      | 215          | 456          | 508          | 674          | 985          | 1095         | 1250         | 1480         | 1676         | 1743         | 1806         | 1717         | 1595         | 1511         | 1509         | 1676         | 1343         | 893          | 461          | 138          | 521          | 251          | 243          |              |
| 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 Co-Gen            |      | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            |
| Syncon                 |      | 726          | 726          | 726          | 726          | 726          | 726          | 726          | 575          | 575          | 726          | 726          | 726          | 726          | 726          | 726          | 726          | 625          | 625          | 453          | 0            | 0            | 257          | 625          |              |
| Hydro                  |      | 118          | 65           | 70           | 107          | 108          | 119          | 125          | 94           | 239          | 255          | 85           | 115          | 64           | 138          | 68           | 108          | 111          | 105          | 102          | 76           | 154          | 157          | 155          |              |
| <b>S.Reserve Total</b> |      | <b>1137</b>  | <b>1401</b>  | <b>1458</b>  | <b>1656</b>  | <b>1969</b>  | <b>2088</b>  | <b>2264</b>  | <b>2452</b>  | <b>2648</b>  | <b>2729</b>  | <b>2766</b>  | <b>2707</b>  | <b>2553</b>  | <b>2400</b>  | <b>2486</b>  | <b>2624</b>  | <b>2286</b>  | <b>1855</b>  | <b>1383</b>  | <b>1017</b>  | <b>1375</b>  | <b>1118</b>  | <b>903</b>   |              |