

GRID SYSTEM OPERATION SUMMARY (SABAH)

| | FORECAST | ACTUAL | VARIANCE |
|--|-----------------|---------------|-----------------|
| Maximum Demand (12th APRIL' 2013) | 850 MW | 781 MW | -8.14% |
| Maximum Energy (12th APRIL' 2013) | 17.7 MW | 15.6 GWh | -11.86% |
| Maximum Demand (record high 27 MARCH' 2013) | 860 MW | 867 MW | 0.77% |

Prepared by:

Electricity Market Operations

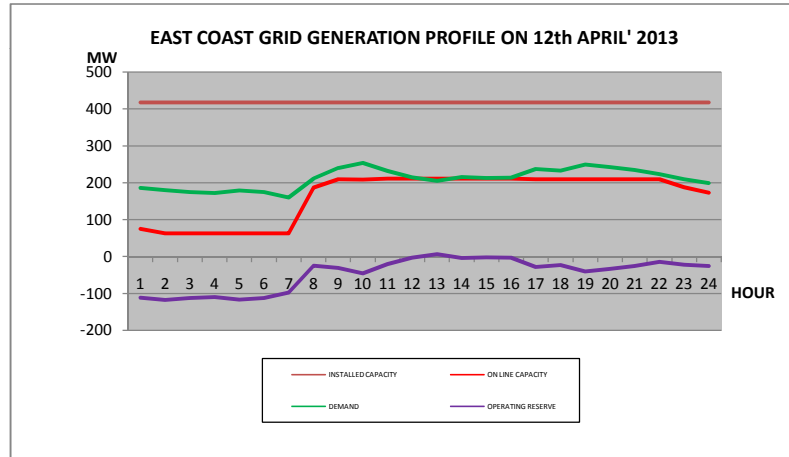
Electricity Supply & Market Regulations Dept.

Energy Commission Malaysia

22-Apr-13

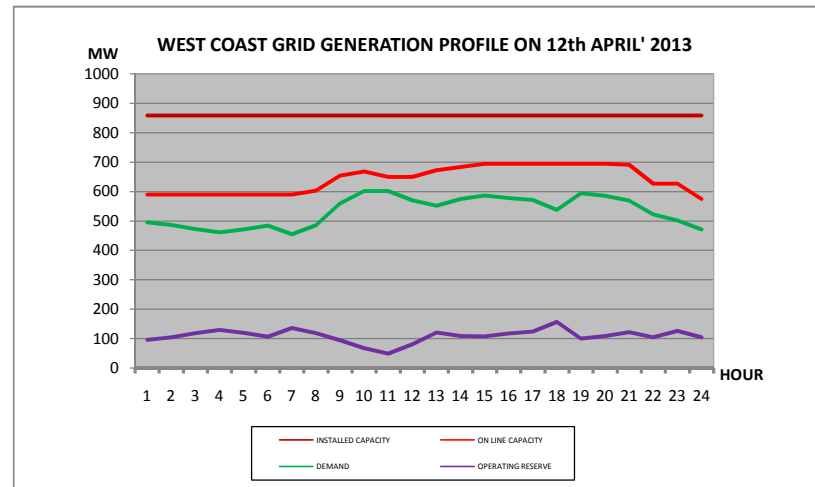
| EAST COAST GRID | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|---------|---------|---------|--------|---------|---------|--------|--------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|--------|--------|---------|---------|
| INSTALLED CAPACITY | | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | 417.9 | |
| ON LINE CAPACITY | | 75 | 63 | 63 | 63 | 63 | 63 | 63 | 187 | 209.5 | 208.5 | 211.5 | 211.5 | 211.5 | 211.5 | 211.5 | 211.5 | 209.5 | 209.5 | 209.5 | 209.5 | 209.5 | 209.5 | 188 | 173 |
| DEMAND | | 185.91 | 180.11 | 174.78 | 172.1 | 178.96 | 175.34 | 160.33 | 211.68 | 239.94 | 253.72 | 231.84 | 214.84 | 204.97 | 215.42 | 213.51 | 214.29 | 237.13 | 232.72 | 249.32 | 242.83 | 234.76 | 223.67 | 209.67 | 198.82 |
| OPERATING RESERVE | | -110.91 | -117.11 | -111.78 | -109.1 | -115.96 | -112.34 | -97.33 | -24.68 | -30.44 | -45.22 | -20.34 | -3.34 | 6.53 | -3.92 | -2.01 | -2.79 | -27.63 | -23.22 | -39.82 | -33.33 | -25.26 | -14.17 | -21.67 | -25.82 |
| East Cost | | 12998.8 | 11514 | 11484.4 | 11787 | 11894.5 | 11373.6 | 11820 | 23277 | 26282.8 | 29068.6 | 28054.9 | 28139.9 | 28286.9 | 29106 | 28210.3 | 28551.8 | 27844.7 | 28647.2 | 28384.7 | 28103.1 | 28008 | 27490 | 24436.4 | 23200.2 |

EAST COAST GRID OPERATION



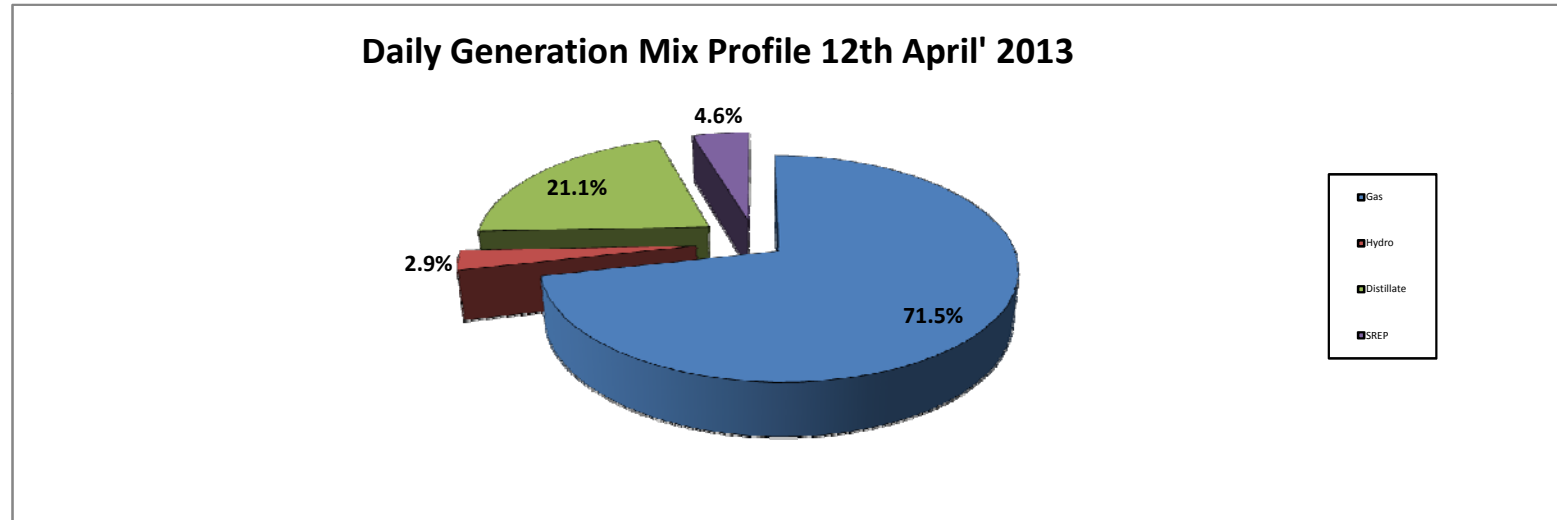
| WEST COAST GRID | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> | <u>7</u> | <u>8</u> | <u>9</u> | <u>10</u> | <u>11</u> | <u>12</u> | <u>13</u> | <u>14</u> | <u>15</u> | <u>16</u> | <u>17</u> | <u>18</u> | <u>19</u> | <u>20</u> | <u>21</u> | <u>22</u> | <u>23</u> | <u>24</u> |
| INSTALLED CAPACITY | | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 | 858.5 |
| ON LINE CAPACITY | | 590 | 590 | 590 | 590 | 590 | 590 | 590 | 603 | 653 | 667.1 | 649.6 | 649.6 | 671.6 | 682.6 | 693.6 | 693.6 | 693.6 | 693.6 | 693.6 | 693.6 | 690.5 | 626.5 | 626.5 | 574.5 |
| DEMAND | | 494.7 | 485.5 | 471.4 | 461.4 | 470.9 | 483.9 | 454.4 | 484.8 | 558.45 | 600.6 | 601.1 | 570 | 551.2 | 574.3 | 586.3 | 576.8 | 570.2 | 537.3 | 593.9 | 585 | 568.65 | 522.3 | 501.1 | 471 |
| OPERATING RESERVE | | 95.3 | 104.5 | 118.6 | 128.6 | 119.1 | 106.1 | 135.6 | 118.2 | 94.55 | 66.5 | 48.5 | 79.6 | 120.4 | 108.3 | 107.3 | 116.8 | 123.4 | 156.3 | 99.7 | 108.6 | 121.85 | 104.2 | 125.4 | 103.5 |
| West Cost | | 37944.2 | 37574.6 | 36536.8 | 35844.3 | 36625.5 | 37495.8 | 34973.6 | 38088.8 | 44809.8 | 49143.2 | 48333.1 | 46391.9 | 46076.2 | 47682.5 | 48774.1 | 47968.5 | 47687.8 | 45673.5 | 49436.7 | 48710.9 | 47184.1 | 43706.5 | 41788.5 | 37913 |

WEST COAST GRID OPERATION



Generation Mix Profile for 12th April 2013

| | |
|------------|------------|
| Gas | 11,315 MWh |
| Hydro | 452 MWh |
| Distillate | 3,336 MWh |
| SREP | 722 MWh |



| | DISTILLATE | GAS | HYDRO | BIOMASS |
|--------------|---------------------|----------------------|-------------------|-------------------|
| SESB | 1,551.55 MWh | 1,660.80 MWh | 396.00 MWh | - MWh |
| IPP | 1,784.90 MWh | 9,654.20 MWh | 55.80 MWh | - MWh |
| SREP | - MWh | - MWh | MWh | 721.70 MWh |
| TOTAL | 3,336.45 MWh | 11,315.00 MWh | 451.80 MWh | 721.70 MWh |

| | DISTILLATE | GAS | HYDRO | BIOMASS |
|----------------|-------------|-------------|-------------|-------------|
| SESB | 10% | 10% | 3% | 0% |
| IPP | 11% | 61% | 0% | 0% |
| SREP | 0% | 0% | 0% | 5% |
| TOTAL | 100% | 100% | 100% | 100% |
| TOTALLY | 15,824.95 | | | |

| | |
|--------------|------|
| DIST (IPP) | 11% |
| DIST (SESB) | 10% |
| SREP | 5% |
| GAS (SESB) | 10% |
| GAS (IPP) | 61% |
| HYDRO (SESB) | 3% |
| HYDRO (IPP) | 0% |
| total | 100% |

