

GRID SYSTEM OPERATION SUMMARY (SABAH)

| | FORECAST | ACTUAL | VARIANCE |
|--|-----------------|---------------|-----------------|
| Maximum Demand (2nd APRIL' 2013) | 850 MW | 848 MW | -0.28% |
| Maximum Energy (2nd APRIL' 2013) | 17.7 MW | 16.4 GWh | -7.34% |
| Maximum Demand (record high 27 MARCH' 2013) | 860 MW | 867 MW | 0.77% |

Prepared by:

Electricity Market Operations

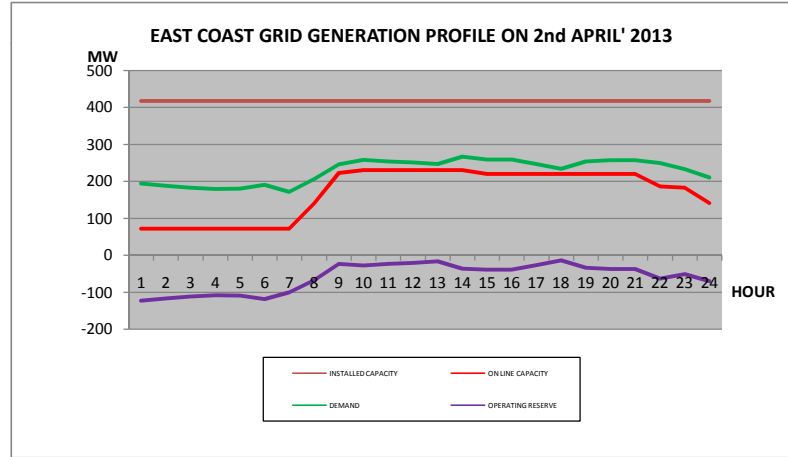
Electricity Supply & Market Regulations Dept.

Energy Commission Malaysia

22-Apr-13

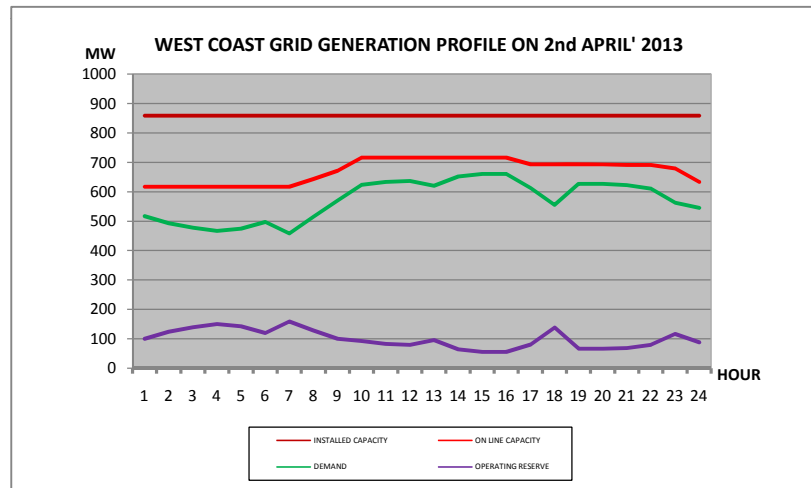
| EAST COAST GRID | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 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 | | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 140 | 222.5 | 230.5 | 230.5 | 230.5 | 230.5 | 230.5 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 186 | 183 | 141 |
| DEMAND | | 194.64 | 188.16 | 183.35 | 179.87 | 180.84 | 190.46 | 171.94 | 206.78 | 245.84 | 258.13 | 253.31 | 251.27 | 246.48 | 266.62 | 258.76 | 259.03 | 246.41 | 233.5 | 253.69 | 257.03 | 257.25 | 249.17 | 233.35 | 210.62 |
| OPERATING RESERVE | | -122.64 | -116.16 | -111.35 | -107.87 | -108.84 | -118.46 | -99.94 | -66.78 | -23.34 | -27.63 | -22.81 | -20.77 | -15.98 | -36.12 | -38.76 | -39.03 | -26.41 | -13.5 | -33.69 | -37.03 | -37.25 | -63.17 | -50.35 | -69.62 |
| East Cost | | 9703.38 | 9718.69 | 9499.99 | 9625.26 | 9669.51 | 9659.61 | 9880.11 | 16181.6 | 25864.5 | 27366.6 | 27708.5 | 27022.9 | 27758.2 | 28957.5 | 26273.3 | 26016.8 | 25481.6 | 25520.6 | 25910.6 | 26100.1 | 25689.1 | 21611.7 | 21167.2 | 17552.9 |

EAST COAST GRID OPERATION



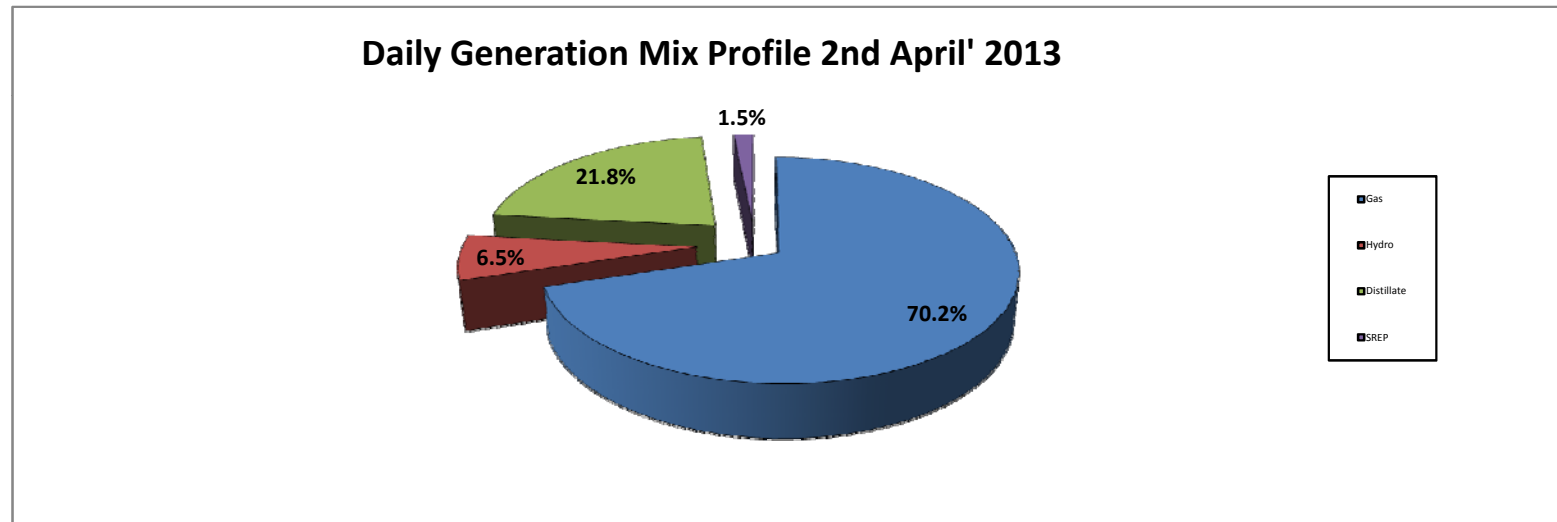
| WEST COAST GRID | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | <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 | | 616.5 | 616.5 | 616.5 | 616.5 | 616.5 | 616.5 | 616.5 | 643 | 670.5 | 715.6 | 715.6 | 715.6 | 715.6 | 715.6 | 715.6 | 715.6 | 693 | 693 | 693 | 693 | 690.5 | 690.5 | 678.5 | 633 |
| DEMAND | | 516.4 | 492.4 | 477.4 | 466.7 | 474.3 | 496.5 | 457.9 | 514.4 | 570.1 | 623.15 | 633.05 | 636.15 | 619.35 | 651.45 | 659.95 | 659.65 | 612.1 | 555.1 | 626.3 | 626.6 | 621.8 | 610.5 | 562.3 | 544.3 |
| OPERATING RESERVE | | 100.1 | 124.1 | 139.1 | 149.8 | 142.2 | 120 | 158.6 | 128.6 | 100.4 | 92.45 | 82.55 | 79.45 | 96.25 | 64.15 | 55.65 | 55.95 | 80.9 | 137.9 | 66.7 | 66.4 | 68.7 | 80 | 116.2 | 88.7 |
| West Cost | | 38014.3 | 36580 | 36002.6 | 35237.9 | 35872.1 | 37222.4 | 34548.1 | 38418.9 | 42640.9 | 47500.7 | 48378.8 | 48588.7 | 48900.8 | 51343.7 | 51919.4 | 51862.8 | 49412.6 | 46068.8 | 50303.8 | 50272.7 | 49710.6 | 49226.4 | 45525.2 | 42151.1 |

WEST COAST GRID OPERATION



Generation Mix Profile for 2nd April 2013

| | |
|------------|------------|
| Gas | 11,674 MWh |
| Hydro | 1,076 MWh |
| Distillate | 3,616 MWh |
| SREP | 255 MWh |



| | DISTILLATE | GAS | HYDRO | BIOMASS |
|--------------|---------------------|----------------------|---------------------|-------------------|
| SESB | 1,779.75 MWh | 1,742.10 MWh | 1,033.00 MWh | - MWh |
| IPP | 1,836.40 MWh | 9,932.00 MWh | 43.20 MWh | - MWh |
| SREP | - MWh | - MWh | MWh | 254.50 MWh |
| TOTAL | 3,616.15 MWh | 11,674.10 MWh | 1,076.20 MWh | 254.50 MWh |

| | DISTILLATE | GAS | HYDRO | BIOMASS |
|----------------|-------------|-------------|-------------|-------------|
| SESB | 11% | 10% | 6% | 0% |
| IPP | 11% | 60% | 0% | 0% |
| SREP | 0% | 0% | 0% | 2% |
| TOTAL | 100% | 100% | 100% | 100% |
| TOTALLY | 16,620.95 | | | |

| | |
|--------------|------|
| DIST (IPP) | 11% |
| DIST (SESB) | 11% |
| SREP | 2% |
| GAS (SESB) | 10% |
| GAS (IPP) | 60% |
| HYDRO (SESB) | 6% |
| HYDRO (IPP) | 0% |
| total | 100% |

