

GRID SYSTEM OPERATION SUMMARY (SABAH)

| | FORECAST | ACTUAL | VARIANCE |
|---------------------------------------|----------|----------|----------|
| Maximum Demand (13th FEB' 2013) | 750 MW | 721 MW | -3.81% |
| Maximum Energy (13th FEB' 2013) | 15.9 MW | 14.3 GWh | -10.06% |
| Maximum Demand (record high 28/06/11) | 800 MW | 830 MW | 3.76% |

Prepared by:

Electricity Market Operations

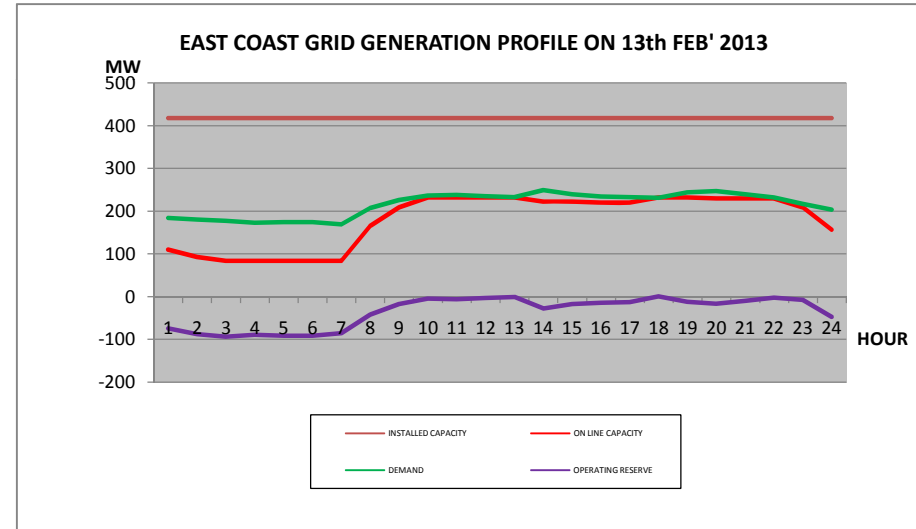
Electricity Supply & Market Regulations Dept.

Energy Commission Malaysia

27-Feb-13

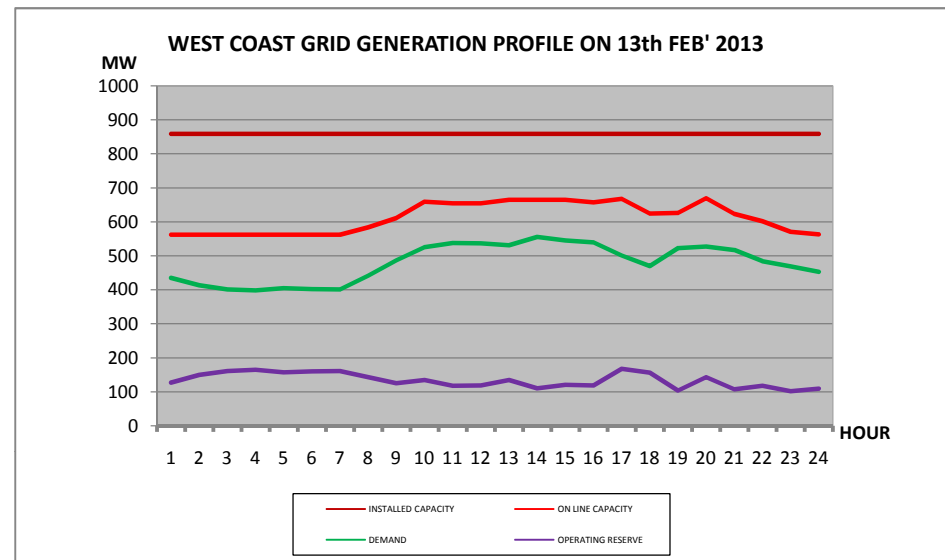
| EAST COAST GRID | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|
| 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 | | 110 | 93 | 84 | 84 | 84 | 84 | 84 | 166 | 209.5 | 232.5 | 232.5 | 232.5 | 232.5 | 222.5 | 222.5 | 220.5 | 220.5 | 232.5 | 232.5 | 230.5 | 230.5 | 230.5 | 209.5 | 157 |
| DEMAND | | 184 | 180.07 | 177.06 | 172.72 | 174.6 | 174.6 | 169.13 | 207.65 | 226.26 | 237.07 | 238.02 | 235.57 | 233.2 | 249.6 | 239.45 | 234.26 | 233.19 | 231.53 | 244.02 | 246.97 | 239.77 | 232.54 | 217.06 | 204.04 |
| OPERATING RESERVE | | -74 | -87.07 | -93.06 | -88.72 | -90.6 | -90.6 | -85.13 | -41.65 | -16.76 | -4.57 | -5.52 | -3.07 | -0.7 | -27.1 | -16.95 | -13.76 | -12.69 | 0.97 | -11.52 | -16.47 | -9.27 | -2.04 | -7.56 | -47.04 |
| East Cost | | 13232.4 | 11551.6 | 10859.1 | 10998.7 | 11021.8 | 10319.9 | 10394.6 | 17591.9 | 23087.4 | 25282.7 | 25896 | 25582.6 | 26154.6 | 25342.4 | 25349.2 | 24870.9 | 24285.3 | 26830.6 | 27527 | 26514.4 | 26937.5 | 26690.9 | 24201.2 | 19051.9 |

EAST COAST GRID OPERATION



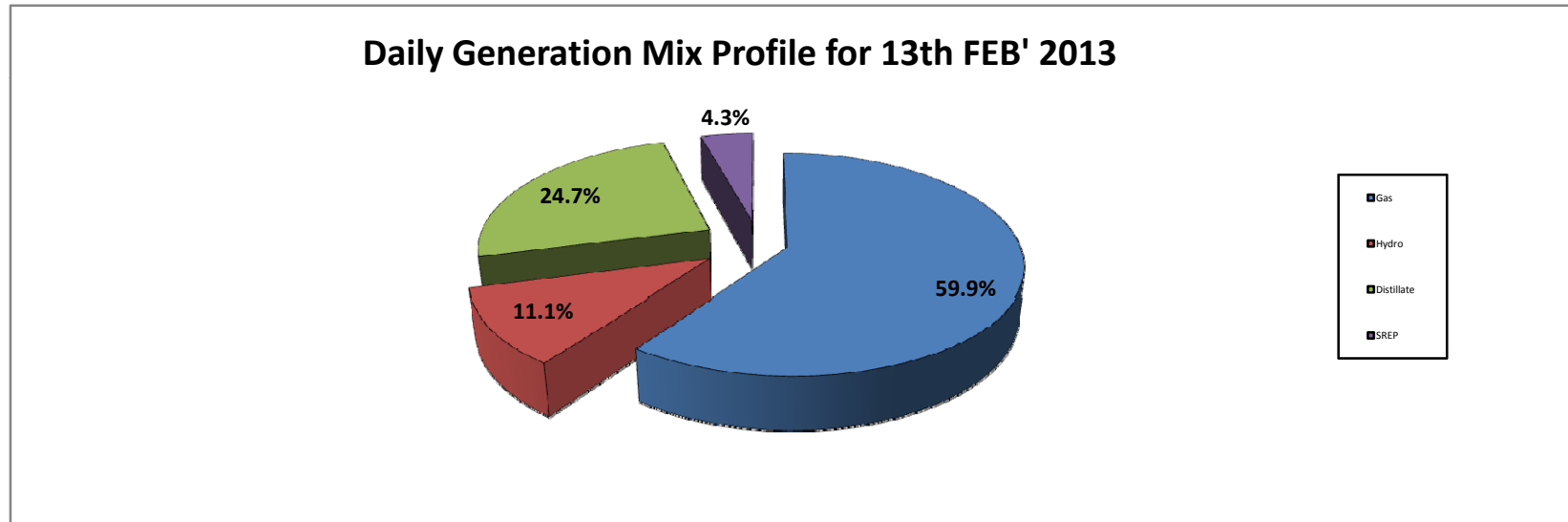
| WEST COAST GRID | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | <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 | | 561.5 | 561.5 | 561.5 | 561.5 | 561.5 | 561.5 | 561.5 | 583 | 610.6 | 659.2 | 654.2 | 654.2 | 665.2 | 665.2 | 665.2 | 657 | 668 | 624.6 | 625.7 | 669.7 | 623.6 | 601 | 570 | 562 |
| DEMAND | | 434.8 | 412.7 | 400.7 | 397.7 | 404.7 | 401.6 | 400.7 | 440.8 | 486.15 | 524.95 | 537.15 | 536.35 | 530.95 | 555.25 | 544.75 | 538.8 | 501 | 468.95 | 522.55 | 526.85 | 516.25 | 483.5 | 468.6 | 452.7 |
| OPERATING RESERVE | | 126.7 | 148.8 | 160.8 | 163.8 | 156.8 | 159.9 | 160.8 | 142.2 | 124.45 | 134.25 | 117.05 | 117.85 | 134.25 | 109.95 | 120.45 | 118.2 | 167 | 155.65 | 103.15 | 142.85 | 107.35 | 117.5 | 101.4 | 109.3 |
| West Cost | | 31487.3 | 30103.1 | 29165.8 | 28914.7 | 29338.2 | 29317.8 | 29430.3 | 33675.6 | 38358.6 | 42959.9 | 43449.2 | 43506.3 | 43712 | 45296.9 | 44984.9 | 43743.6 | 41474.2 | 39108.6 | 43559.2 | 44766.6 | 41925.5 | 38518.4 | 35858.1 | 34314.3 |

WEST COAST GRID OPERATION



Generation Mix Profile for 13th February 2013

| | |
|------------|-----------|
| Gas | 8,844 MWh |
| Hydro | 1,633 MWh |
| Distillate | 3,650 MWh |
| SREP | 633 MWh |



| | DISTILLATE | GAS | HYDRO | BIOMASS |
|--------------|---------------------|---------------------|---------------------|-------------------|
| SESB | 1,762.25 MWh | 2,131.00 MWh | 1,572.00 MWh | - MWh |
| IPP | 1,887.90 MWh | 6,713.30 MWh | 60.50 MWh | - MWh |
| SREP | - MWh | - MWh | - MWh | 632.70 MWh |
| TOTAL | 3,650.15 MWh | 8,844.30 MWh | 1,632.50 MWh | 632.70 MWh |

| | DISTILLATE | GAS | HYDRO | BIOMASS |
|----------------|-------------|-------------|-------------|-------------|
| SESB | 12% | 14% | 11% | 0% |
| IPP | 13% | 45% | 0% | 0% |
| SREP | 0% | 0% | 0% | 4% |
| TOTAL | 100% | 100% | 100% | 100% |
| TOTALLY | 14,759.65 | | | |

| | |
|--------------|------|
| DIST (IPP) | 13% |
| DIST (SESB) | 12% |
| SREP | 4% |
| GAS (SESB) | 14% |
| GAS (IPP) | 45% |
| HYDRO (SESB) | 11% |
| HYDRO (IPP) | 0% |
| total | 100% |

