

GRID SYSTEM OPERATION SUMMARY (SABAH)

| | FORECAST | ACTUAL | VARIANCE |
|--|-----------------|---------------|-----------------|
| Maximum Demand (19th JUNE' 2013) | 860 MW | 865 MW | 0.63% |
| Maximum Energy (19th JUNE' 2013) | 17.6 MW | 16.4 GWh | -6.82% |
| Maximum Demand (record high 27 MARCH' 2013) | 860 MW | 867 MW | 0.77% |

Prepared by:

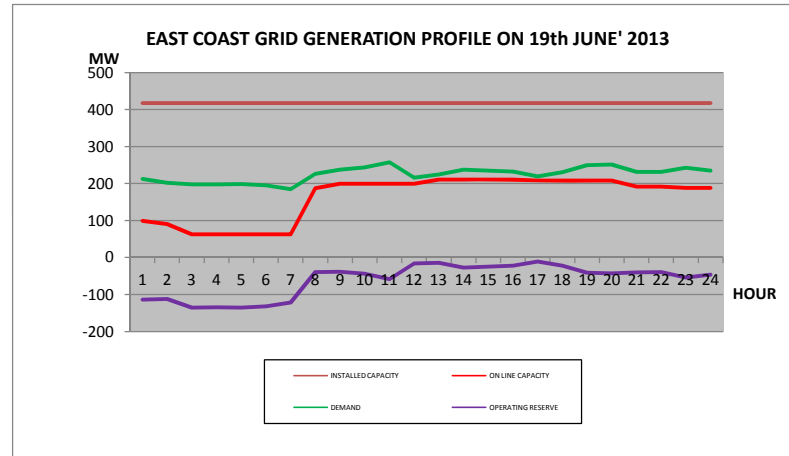
Electricity Market Operations

Electricity Supply & Market Regulations Dept.

Energy Commission Malaysia

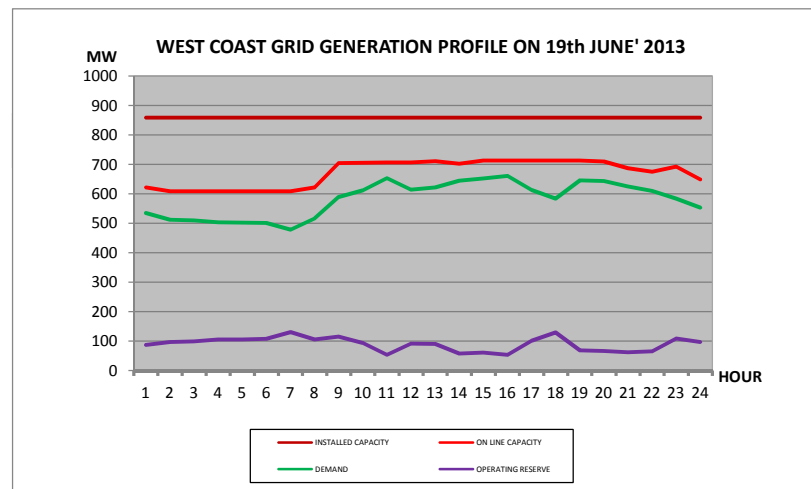
| EAST COAST GRID | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 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 | | 99 | 90 | 63 | 63 | 63 | 63 | 63 | 187 | 199.5 | 199.5 | 199.5 | 199.5 | 210.5 | 210.5 | 210.5 | 210.5 | 208.5 | 208.5 | 208.5 | 208.5 | 191.5 | 191.5 | 188.5 | 188.5 |
| DEMAND | | 212.59 | 202.19 | 198.13 | 197.37 | 198.69 | 194.77 | 184.84 | 226.66 | 237.71 | 243.42 | 257.61 | 215.56 | 224.51 | 237.92 | 235.27 | 232.34 | 219.2 | 230.36 | 249.65 | 251.35 | 231.55 | 231.33 | 242.69 | 234.66 |
| OPERATING RESERVE | | -113.59 | -112.19 | -135.13 | -134.37 | -135.69 | -131.77 | -121.84 | -39.66 | -38.21 | -43.92 | -58.11 | -16.06 | -14.01 | -27.42 | -24.77 | -21.84 | -10.7 | -21.86 | -41.15 | -42.85 | -40.05 | -39.83 | -54.19 | -46.16 |
| East Cost | | 11877.3 | 11052.9 | 8982.18 | 8743.49 | 9179.63 | 8857.95 | 9155.11 | 20145.3 | 26336.9 | 27740.2 | 28601.8 | 26613.1 | 27958.5 | 29785.6 | 28986.9 | 27549.9 | 26083.9 | 25111.9 | 26697.3 | 26686.5 | 24916.4 | 23959.5 | 23732.9 | 24013.5 |

EAST COAST GRID OPERATION



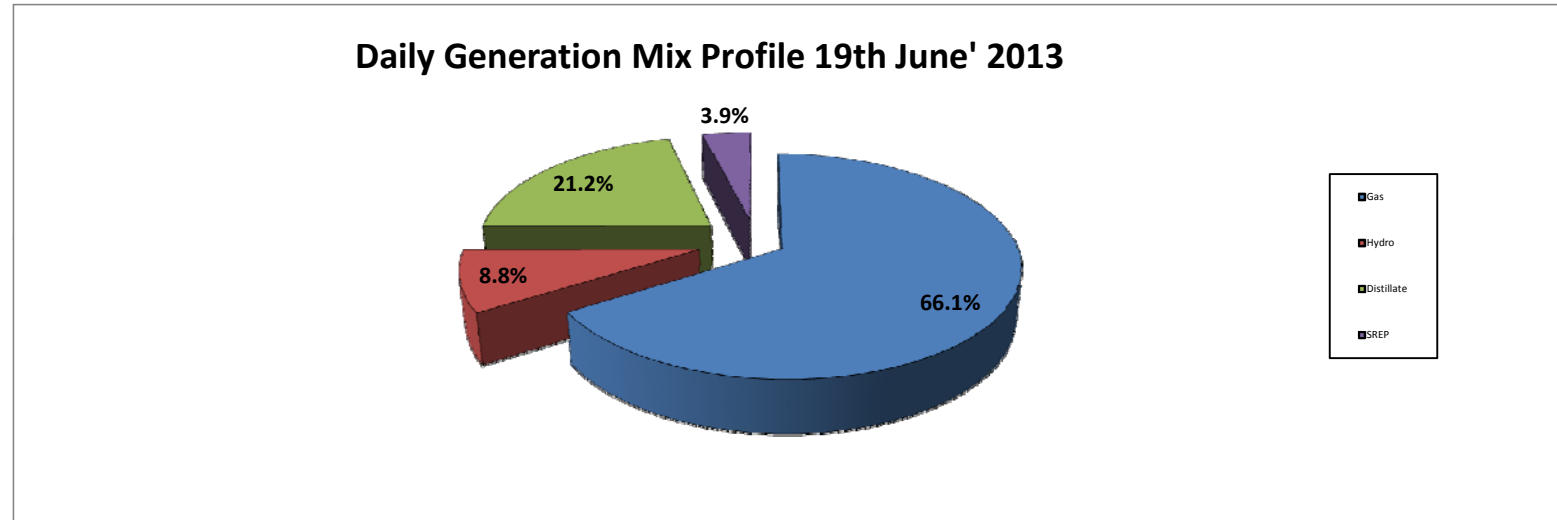
| WEST COAST GRID | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | <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 | | 621.5 | 608.5 | 608.5 | 608.5 | 608.5 | 608.5 | 608.5 | 621.5 | 704.5 | 705.1 | 706.2 | 706.2 | 711.2 | 702.7 | 713.7 | 713.7 | 713.7 | 713.7 | 713.7 | 709.5 | 687.5 | 675.5 | 693 | 649 |
| DEMAND | | 535.2 | 511.6 | 509.8 | 503.5 | 502.7 | 501 | 477.8 | 516 | 589.1 | 612.25 | 653.25 | 614.65 | 621.55 | 644.95 | 652.85 | 660.55 | 612.65 | 584.15 | 645.65 | 643.2 | 625.4 | 610.2 | 584.2 | 552.9 |
| OPERATING RESERVE | | 86.3 | 96.9 | 98.7 | 105 | 105.8 | 107.5 | 130.7 | 105.5 | 115.4 | 92.85 | 52.95 | 91.55 | 89.65 | 57.75 | 60.85 | 53.15 | 101.05 | 129.55 | 68.05 | 66.3 | 62.1 | 65.3 | 108.8 | 96.1 |
| West Cost | | 38241.3 | 35824.1 | 35537.5 | 35672.2 | 35629.6 | 35500.2 | 34106.8 | 37401.7 | 45047.3 | 47685.7 | 50427.7 | 47216.4 | 47508.4 | 48899.9 | 50299.3 | 51026.7 | 47873.9 | 46193.7 | 50120.2 | 49428.2 | 49361.1 | 48072.3 | 45425.9 | 41908.7 |

WEST COAST GRID OPERATION



Generation Mix Profile for 19th June 2013

| | |
|------------|------------|
| Gas | 11,211 MWh |
| Hydro | 1,496 MWh |
| Distillate | 3,587 MWh |
| SREP | 662 MWh |



| | DISTILLATE | GAS | HYDRO | BIOMASS |
|--------------|---------------------|----------------------|---------------------|-------------------|
| SESB | 1,619.10 MWh | 1,732.50 MWh | 1,451.20 MWh | - MWh |
| IPP | 1,967.50 MWh | 9,478.40 MWh | 45.10 MWh | - MWh |
| SREP | - MWh | - MWh | - MWh | 662.10 MWh |
| TOTAL | 3,586.60 MWh | 11,210.90 MWh | 1,496.30 MWh | 662.10 MWh |

| | DISTILLATE | GAS | HYDRO | BIOMASS |
|----------------|-------------|-------------|-------------|-------------|
| SESB | 10% | 10% | 9% | 0% |
| IPP | 12% | 56% | 0% | 0% |
| SREP | 0% | 0% | 0% | 4% |
| TOTAL | 100% | 100% | 100% | 100% |
| TOTALLY | 16,955.90 | | | |

| | |
|--------------|------|
| DIST (IPP) | 12% |
| DIST (SESB) | 10% |
| SREP | 4% |
| GAS (SESB) | 10% |
| GAS (IPP) | 56% |
| HYDRO (SESB) | 9% |
| HYDRO (IPP) | 0% |
| total | 100% |

