

**GRID SYSTEM OPERATION SUMMARY (SABAH)**

|  | <b>FORECAST</b> | <b>ACTUAL</b> | <b>VARIANCE</b> |
|--|-----------------|---------------|-----------------|
| <b>Maximum Demand (29th APRIL' 2012)</b>     | 680 MW          | 683 MW        | 0.44%           |
| <b>Maximum Energy (29th APRIL' 2012)</b>     | 14 GWh          | 13.3 GWh      | -5.00%          |
| <b>Maximum Demand (record high 28/06/11)</b> | 800 MW          | 830 MW        | 3.76%           |

Prepared by:

Electricity Market Operations

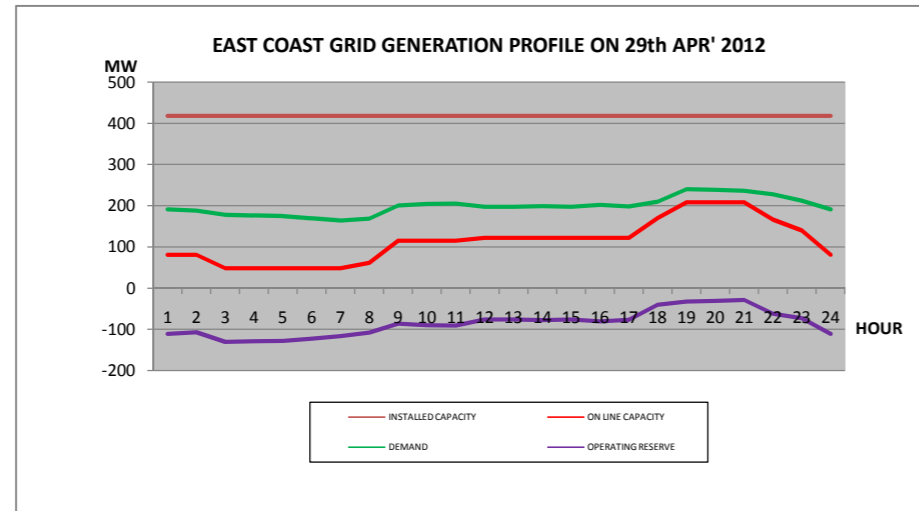
Electricity Supply & Market Regulations Dept.

Energy Commission Malaysia

14-May-12

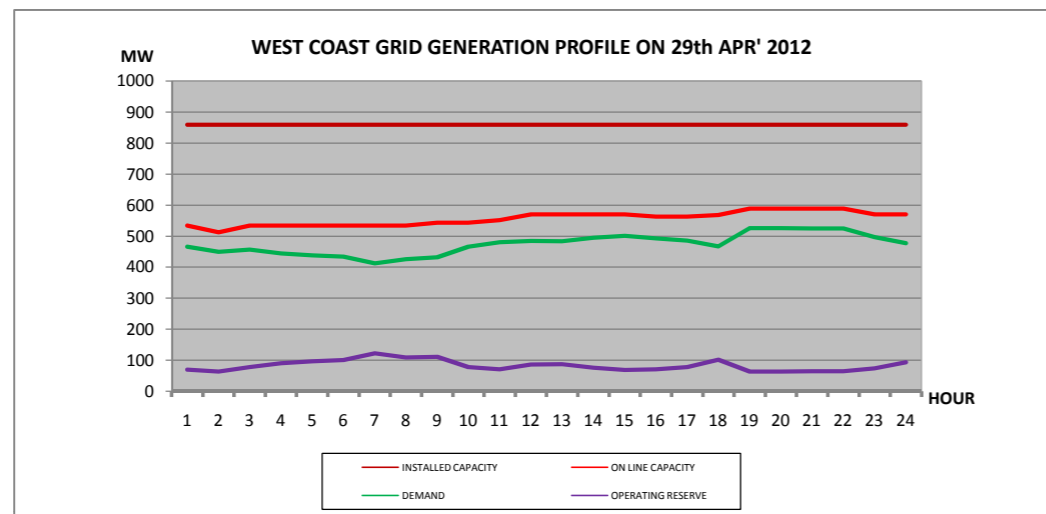
| <b>EAST COAST GRID</b>    |  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |         |       |         |         |        |
|---------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|-------|---------|---------|--------|
| <b>INSTALLED CAPACITY</b> |  | 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   | 417.9   |        |
| <b>ON LINE CAPACITY</b>   |  | 81      | 81      | 48      | 48      | 48      | 48      | 48      | 61      | 115     | 115     | 115     | 122     | 122     | 122     | 122     | 122     | 122     | 170     | 208.3   | 208.3  | 208.3   | 166   | 140     | 81      |        |
| <b>DEMAND</b>             |  | 191.21  | 187.96  | 177.9   | 176.63  | 175.37  | 169.8   | 164.13  | 168.7   | 200.64  | 204.62  | 205.56  | 197.29  | 197.62  | 199.45  | 197.78  | 202.29  | 198.31  | 209.75  | 240.3   | 238.65 | 236.65  | 227.5 | 212.37  | 191.38  |        |
| <b>OPERATING RESERVE</b>  |  | -110.21 | -106.96 | -129.9  | -128.63 | -127.37 | -121.8  | -116.13 | -107.7  | -85.64  | -89.62  | -90.56  | -75.29  | -75.62  | -77.45  | -75.78  | -80.29  | -76.31  | -39.75  | -32     | -30.35 | -28.35  | -61.5 | -72.37  | -110.38 |        |
| East Cost                 |  | 9727.71 | 9541.81 | 6195.74 | 6286.45 | 6252.02 | 6220.84 | 6452.83 | 7362.82 | 12274.2 | 12356.4 | 12334.3 | 12673.9 | 12971.6 | 12986.3 | 12637.9 | 12953.2 | 12775.5 | 17608.9 | 22404.7 | 22328  | 22098.5 | 17832 | 15258.4 | 10005.3 | 398441 |

EAST COAST GRID OPERATION



| <b>WEST COAST GRID</b>    |  |          |          |          |          |          |          |          |          |          |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |  |
|---------------------------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
|                           |  | <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> | <b>11</b> | <b>12</b> | <b>13</b> | <b>14</b> | <b>15</b> | <b>16</b> | <b>17</b> | <b>18</b> | <b>19</b> | <b>20</b> | <b>21</b> | <b>22</b> | <b>23</b> | <b>24</b> |  |
| <b>INSTALLED CAPACITY</b> |  | 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     |  |
| <b>ON LINE CAPACITY</b>   |  | 534.5    | 512.5    | 534.5    | 534.5    | 534.5    | 534.5    | 534.5    | 534.5    | 543      | 543       | 551.5     | 570       | 570       | 570       | 570       | 563       | 563       | 568       | 589       | 589       | 589       | 589       | 570       | 570       |  |
| <b>DEMAND</b>             |  | 465.1    | 449.1    | 456.2    | 444.1    | 438      | 433.6    | 411.8    | 425.2    | 431.4    | 465.3     | 480.3     | 483.7     | 483       | 494.5     | 501       | 492.5     | 485.07    | 466       | 525.3     | 525.1     | 524.4     | 524.7     | 496       | 476.7     |  |
| <b>OPERATING RESERVE</b>  |  | 69.4     | 63.4     | 78.3     | 90.4     | 96.5     | 100.9    | 122.7    | 109.3    | 111.6    | 77.7      | 71.2      | 86.3      | 87        | 75.5      | 69        | 70.5      | 77.93     | 102       | 63.7      | 63.9      | 64.6      | 64.3      | 74        | 93.3      |  |
| West Cost                 |  | 33741    | 33700    | 33724    | 32749    | 32255    | 32054    | 30636    | 31476    | 32549    | 34555     | 36108     | 35750     | 36030     | 36532     | 36831     | 36042     | 35444     | 34659     | 39784     | 39658     | 39592     | 39261     | 36546     | 35139     |  |

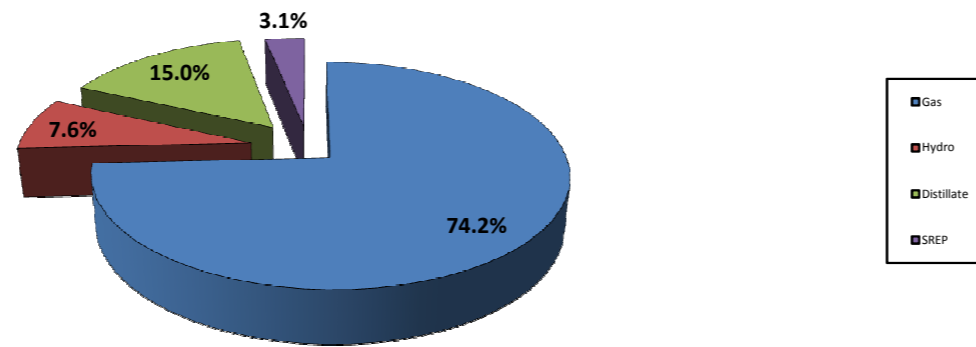
WEST COAST GRID OPERATION



**Generation Mix Profile for 29th April 2012**

|            |            |
|------------|------------|
| Gas        | 10,039 MWh |
| Hydro      | 1,025 MWh  |
| Distillate | 2,034 MWh  |
| SREP       | 424 MWh    |

**Daily Generation Mix Profile for 29th April 2012**



|              | DISTILLATE          | GAS                  | HYDRO               | BIOMASS           |
|--------------|---------------------|----------------------|---------------------|-------------------|
| SESB         | 658.60 MWh          | 1,543.40 MWh         | 946.00 MWh          | - MWh             |
| IPP          | 1,375.20 MWh        | 8,495.87 MWh         | 78.80 MWh           | - MWh             |
| SREP         | - MWh               | - MWh                | - MWh               | 423.60 MWh        |
| <b>TOTAL</b> | <b>2,033.80 MWh</b> | <b>10,039.27 MWh</b> | <b>1,024.80 MWh</b> | <b>423.60 MWh</b> |

|                | DISTILLATE  | GAS         | HYDRO       | BIOMASS     |
|----------------|-------------|-------------|-------------|-------------|
| SESB           | 5%          | 11%         | 7%          | 0%          |
| IPP            | 10%         | 63%         | 1%          | 0%          |
| SREP           | 0%          | 0%          | 0%          | 3%          |
| <b>TOTAL</b>   | <b>100%</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |
| <b>TOTALLY</b> | 13,521.47   |             |             |             |

|              |      |
|--------------|------|
| DIST (IPP)   | 10%  |
| DIST (SESB)  | 5%   |
| SREP         | 3%   |
| GAS (SESB)   | 11%  |
| GAS (IPP)    | 63%  |
| HYDRO (SESB) | 7%   |
| HYDRO (IPP)  | 1%   |
| total        | 100% |

**GENERATION MIX SESB-IPP-SREP 29th APR' 2012**

