

**GRID SYSTEM OPERATION SUMMARY (SABAH)**

|  | <b>FORECAST</b> | <b>ACTUAL</b> | <b>VARIANCE</b> |
|--|-----------------|---------------|-----------------|
| <b>Maximum Demand (6th OCT' 2012)</b>        | 750 MW          | 733 MW        | -2.31%          |
| <b>Maximum Energy (6th OCT' 2012)</b>        | 14.9 GWh        | 14.0 GWh      | -6.04%          |
| <b>Maximum Demand (record high 28/06/11)</b> | 800 MW          | 830 MW        | 3.76%           |

Prepared by:

Electricity Market Operations

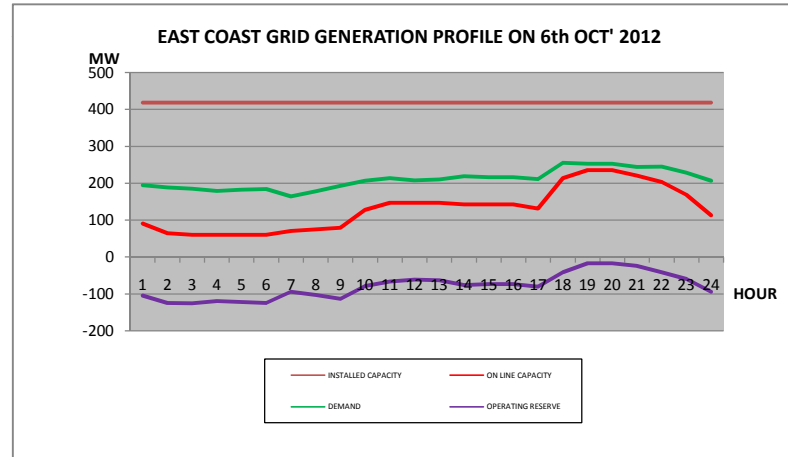
Electricity Supply & Market Regulations Dept.

Energy Commission Malaysia

11-Oct-12

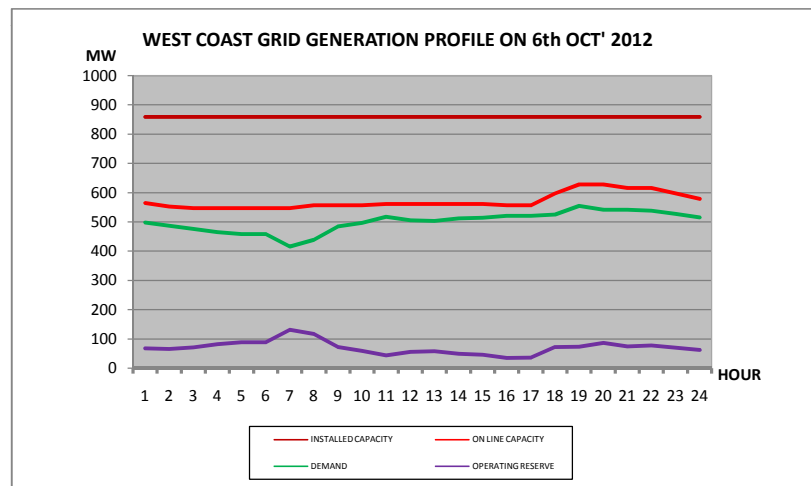
| EAST COAST GRID           |  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|---------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <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   |         |
| <b>ON LINE CAPACITY</b>   |  | 90      | 64      | 60      | 60      | 60      | 60      | 70      | 75      | 79      | 128     | 147     | 147     | 147     | 143     | 143     | 143     | 131     | 214     | 235.6   | 235.6   | 220.6   | 203.8   | 169     | 113     |
| <b>DEMAND</b>             |  | 194.29  | 188.64  | 185.41  | 179.13  | 182.36  | 184.39  | 164.32  | 177.96  | 192.5   | 206.52  | 213.38  | 207.64  | 209.83  | 218.82  | 216.52  | 215.86  | 211.38  | 255.03  | 252.68  | 252.33  | 243.93  | 244.64  | 228.18  | 206.79  |
| <b>OPERATING RESERVE</b>  |  | -104.29 | -124.64 | -125.41 | -119.13 | -122.36 | -124.39 | -94.32  | -102.96 | -113.5  | -78.52  | -66.38  | -60.64  | -62.83  | -75.82  | -73.52  | -72.86  | -80.38  | -41.03  | -17.08  | -16.73  | -23.33  | -40.84  | -59.18  | -93.79  |
| East Cost                 |  | 10658.8 | 8007.9  | 7808.13 | 6825.85 | 8007.44 | 7885.55 | 9114.43 | 10338.2 | 9086.98 | 14680.5 | 15148.4 | 16679.1 | 17044.8 | 16020.2 | 16657.4 | 16637.4 | 15212.9 | 23589.2 | 27837.9 | 27991.7 | 27204.4 | 25257.5 | 20567.6 | 13537.5 |

EAST COAST GRID OPERATION



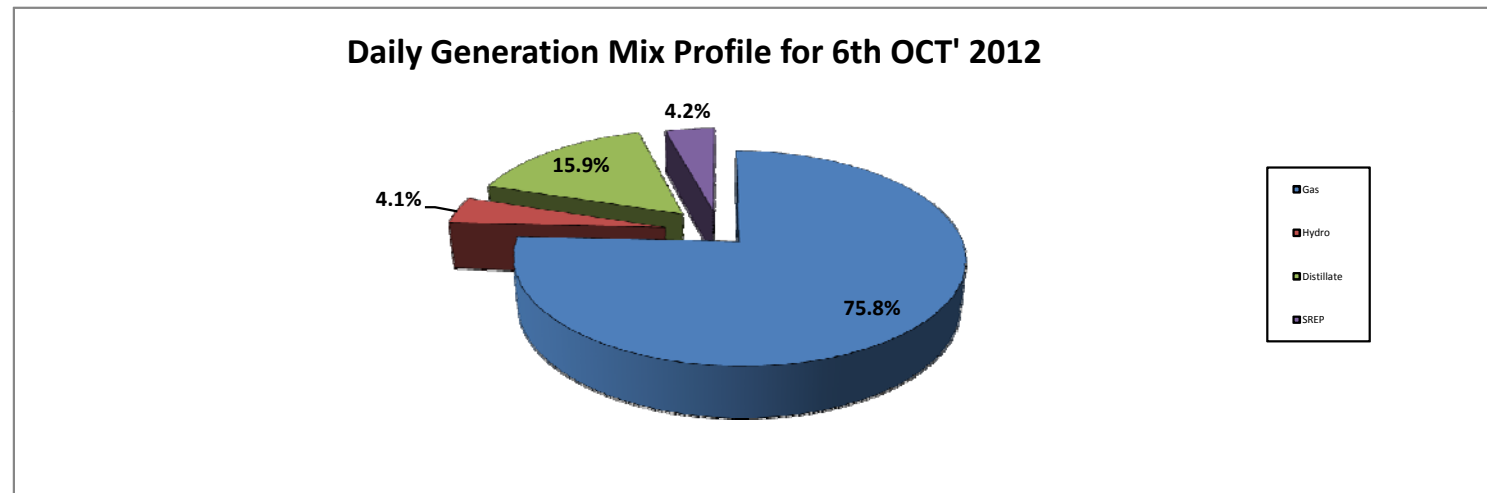
| WEST COAST GRID           |  |          |          |          |          |          |          |          |          |          |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|---------------------------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                           |  | <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> |
| <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>   |  | 564.5    | 551.5    | 546.5    | 546.5    | 546.5    | 546.5    | 546.5    | 556      | 556      | 556       | 560.5     | 560.5     | 560.5     | 560.5     | 560.5     | 556       | 556       | 597       | 628       | 628       | 616       | 616       | 597       | 578       |
| <b>DEMAND</b>             |  | 497.2    | 486.5    | 475.9    | 464.8    | 457.6    | 457.8    | 415.2    | 438.5    | 484.1    | 497.1     | 517       | 505.3     | 502.7     | 511.6     | 514.3     | 521.2     | 520.5     | 525       | 554.9     | 541.8     | 541.5     | 538.4     | 527.2     | 515.3     |
| <b>OPERATING RESERVE</b>  |  | 67.3     | 65       | 70.6     | 81.7     | 88.9     | 88.7     | 131.3    | 117.5    | 71.9     | 58.9      | 43.5      | 55.2      | 57.8      | 48.9      | 46.2      | 34.8      | 35.5      | 72        | 73.1      | 86.2      | 74.5      | 77.6      | 69.8      | 62.7      |
| West Cost                 |  | 39275.1  | 37713    | 36815.8  | 35960.8  | 35536.4  | 35552.7  | 32642.8  | 35043.7  | 37971.8  | 38773.1   | 39653.3   | 38692.4   | 39054.8   | 39437.2   | 39656.7   | 40034.1   | 39946.7   | 40547.4   | 42985.2   | 42740.4   | 42775.1   | 42367.9   | 40885.8   | 38873.5   |

WEST COAST GRID OPERATION



**Generation Mix Profile for 6th October 2012**

|            |            |
|------------|------------|
| Gas        | 10,977 MWh |
| Hydro      | 593 MWh    |
| Distillate | 2,305 MWh  |
| SREP       | 605 MWh    |



|              | DISTILLATE          | GAS                  | HYDRO             | BIOMASS           |
|--------------|---------------------|----------------------|-------------------|-------------------|
| SESB         | 923.70 MWh          | 711.40 MWh           | 565.00 MWh        | - MWh             |
| IPP          | 1,381.50 MWh        | 10,265.20 MWh        | 27.90 MWh         | - MWh             |
| SREP         | - MWh               | - MWh                | - MWh             | 604.70 MWh        |
| <b>TOTAL</b> | <b>2,305.20 MWh</b> | <b>10,976.60 MWh</b> | <b>592.90 MWh</b> | <b>604.70 MWh</b> |

|                | DISTILLATE  | GAS         | HYDRO       | BIOMASS     |
|----------------|-------------|-------------|-------------|-------------|
| SESB           | 6%          | 5%          | 4%          | 0%          |
| IPP            | 10%         | 71%         | 0%          | 0%          |
| SREP           | 0%          | 0%          | 0%          | 4%          |
| <b>TOTAL</b>   | <b>100%</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |
| <b>TOTALLY</b> | 14,479.40   |             |             |             |

|              |      |
|--------------|------|
| DIST (IPP)   | 10%  |
| DIST (SESB)  | 6%   |
| SREP         | 4%   |
| GAS (SESB)   | 5%   |
| GAS (IPP)    | 71%  |
| HYDRO (SESB) | 4%   |
| HYDRO (IPP)  | 0%   |
| total        | 100% |

