

GRID SYSTEM OPERATION SUMMARY (SABAH)

| | FORECAST | ACTUAL | VARIANCE |
|--|-----------------|---------------|-----------------|
| Maximum Demand (13th JULY' 2013) | 750 MW | 723 MW | -3.63% |
| Maximum Energy (13th JULY' 2013) | 15.9 MW | 14.0 GWh | -11.95% |
| Maximum Demand (record high 27 MARCH' 2013) | 860 MW | 867 MW | 0.77% |

Prepared by:

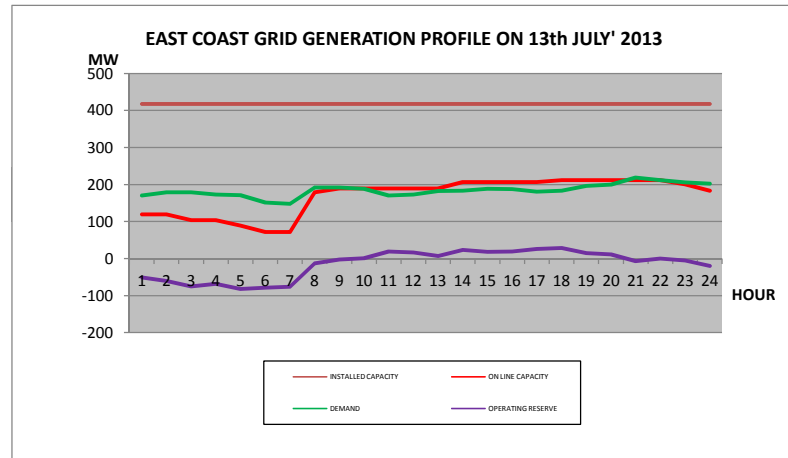
Electricity Market Operations

Electricity Supply & Market Regulations Dept.

Energy Commission Malaysia

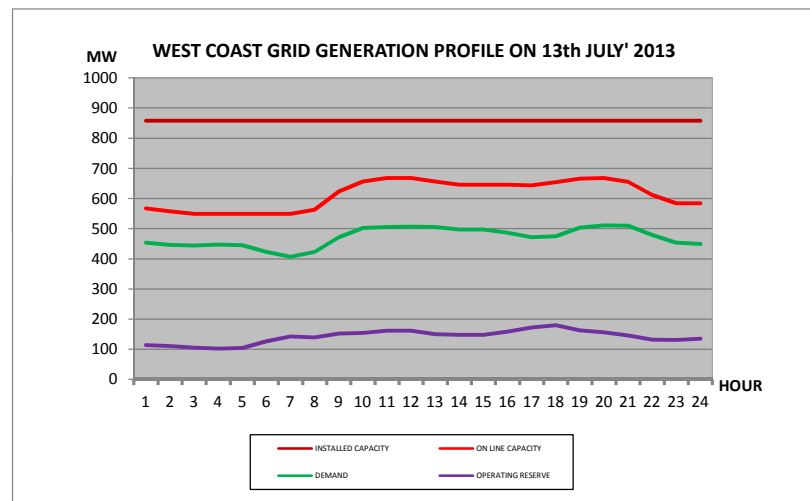
| EAST COAST GRID | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|
| 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 | | 119 | 119 | 104 | 104 | 89 | 72 | 72 | 179 | 189.5 | 189.5 | 189.5 | 189.5 | 189.5 | 206.5 | 206.5 | 206.5 | 206.5 | 211.5 | 211.5 | 211.5 | 211.5 | 211.5 | 201 | 183 |
| DEMAND | | 170.04 | 179.15 | 179.01 | 172.7 | 171.54 | 150.97 | 148.06 | 191.71 | 191.78 | 188.44 | 170.54 | 173.27 | 182.75 | 183.28 | 188.72 | 187.81 | 180.87 | 183.37 | 196.41 | 200.17 | 218.66 | 211.49 | 206.2 | 202.52 |
| OPERATING RESERVE | | -51.04 | -60.15 | -75.01 | -68.7 | -82.54 | -78.97 | -76.06 | -12.71 | -2.28 | 1.06 | 18.96 | 16.23 | 6.75 | 23.22 | 17.78 | 18.69 | 25.63 | 28.13 | 15.09 | 11.33 | -7.16 | 0.01 | -5.2 | -19.52 |

EAST COAST GRID OPERATION



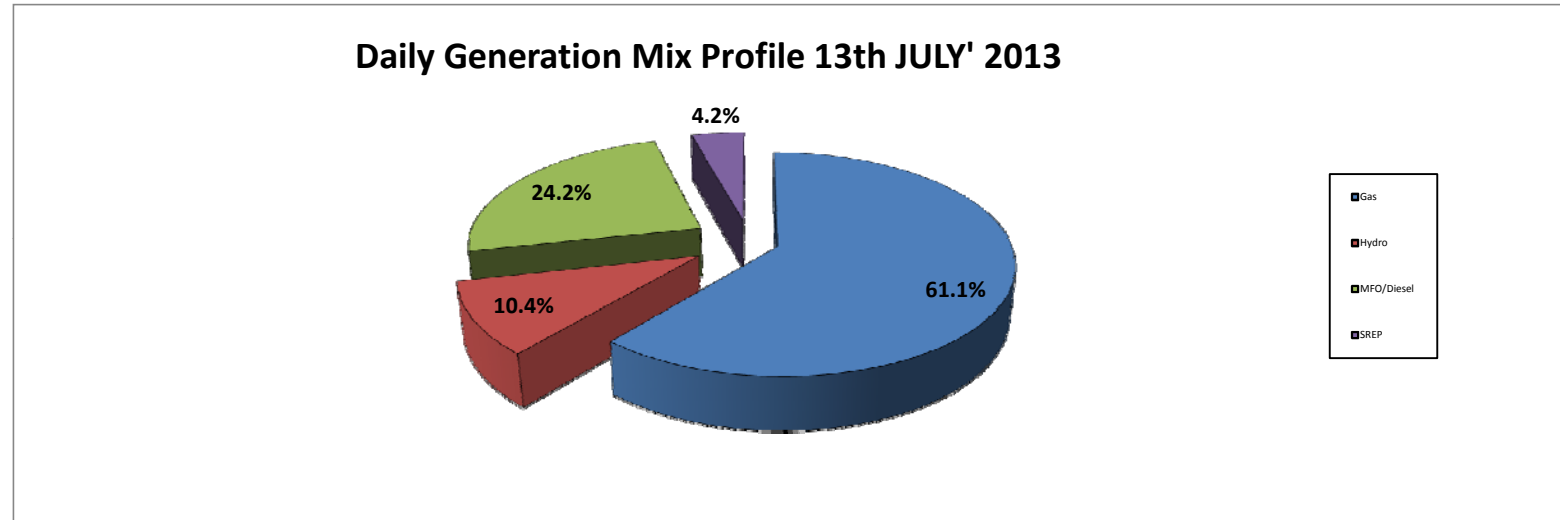
| WEST COAST GRID | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 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 | | 567.5 | 558 | 549.5 | 549.5 | 549.5 | 549.5 | 549.5 | 562.5 | 623.5 | 656.5 | 667.5 | 667.5 | 656.5 | 645.5 | 645.5 | 645.5 | 643.5 | 654.5 | 665.5 | 667.5 | 655.5 | 611.5 | 584.5 | 584.5 |
| DEMAND | | 453.9 | 446.6 | 443.7 | 447.2 | 444.8 | 423.1 | 406.9 | 423.2 | 471.6 | 502.1 | 505.5 | 506.2 | 505.9 | 497.5 | 497.6 | 486.4 | 471.3 | 474.4 | 503.1 | 510.8 | 510.1 | 479 | 453.7 | 449.6 |
| OPERATING RESERVE | | 113.6 | 111.4 | 105.8 | 102.3 | 104.7 | 126.4 | 142.6 | 139.3 | 151.9 | 154.4 | 162 | 161.3 | 150.6 | 148 | 147.9 | 159.1 | 172.2 | 180.1 | 162.4 | 156.7 | 145.4 | 132.5 | 130.8 | 134.9 |

WEST COAST GRID OPERATION



Generation Mix Profile for 13th JULY 2013

| | |
|------------|-----------|
| Gas | 8,779 MWh |
| Hydro | 1,494 MWh |
| MFO/Diesel | 3,478 MWh |
| SREP | 608 MWh |



| | MFO/DIESEL | GAS | HYDRO | BIOMASS |
|--------------|---------------------|---------------------|---------------------|-------------------|
| SESB | 1,827.90 MWh | 1,985.70 MWh | 1,429.20 MWh | - MWh |
| IPP | 1,650.10 MWh | 6,793.20 MWh | 64.70 MWh | - MWh |
| SREP | - MWh | - MWh | MWh | 607.80 MWh |
| TOTAL | 3,478.00 MWh | 8,778.90 MWh | 1,493.90 MWh | 607.80 MWh |

| | MFO/DIESEL | GAS | HYDRO | BIOMASS |
|----------------|------------------|-------------|-------------|-------------|
| SESB | 13% | 14% | 10% | 0% |
| IPP | 11% | 47% | 0% | 0% |
| SREP | 0% | 0% | 0% | 4% |
| TOTAL | 100% | 100% | 100% | 100% |
| TOTALLY | 14,358.60 | | | |

| | |
|--------------|------|
| DIST (IPP) | 11% |
| DIST (SESB) | 13% |
| SREP | 4% |
| GAS (SESB) | 14% |
| GAS (IPP) | 47% |
| HYDRO (SESB) | 10% |
| HYDRO (IPP) | 0% |
| total | 100% |

