

GRID SYSTEM OPERATION SUMMARY (SABAH)

| | FORECAST | ACTUAL | VARIANCE |
|---|----------|----------|----------|
| Maximum Demand (28th JULY' 2013) | 730 MW | 693 MW | -5.10% |
| Maximum Energy (28th JULY' 2013) | 15.2 MW | 13.8 GWh | -9.21% |
| Maximum Demand (record high 27 MARCH' 2013) | 860 MW | 867 MW | 0.77% |

Prepared by:

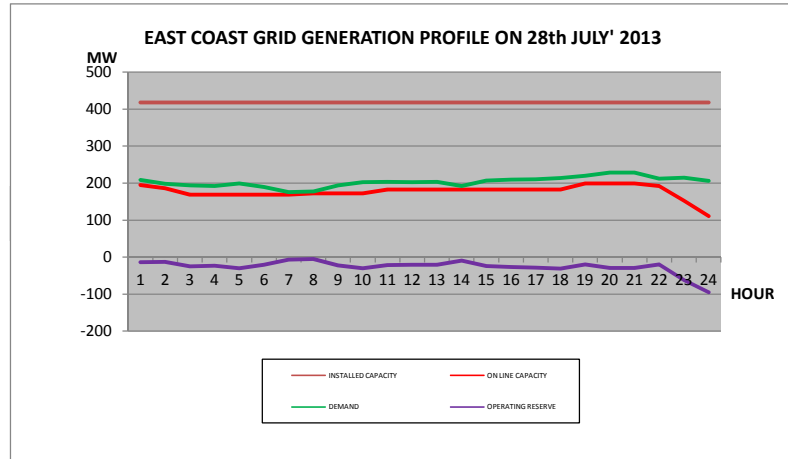
Electricity Market Operations

Electricity Supply & Market Regulations Dept.

Energy Commission Malaysia

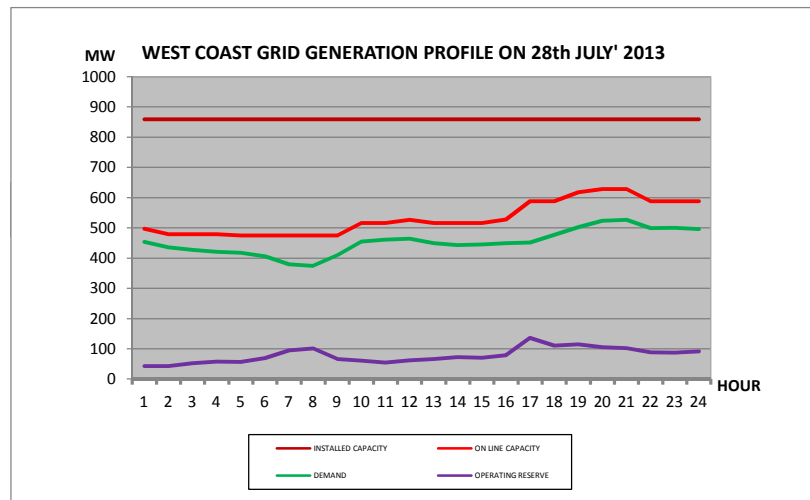
| EAST COAST GRID | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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 | | 195 | 186 | 169 | 169 | 169 | 169 | 169 | 172 | 172 | 172 | 182.5 | 182.5 | 182.5 | 182.5 | 182.5 | 182.5 | 182.5 | 182.5 | 199.5 | 199.5 | 199.5 | 192 | 152 | 111 |
| DEMAND | | 208.77 | 198.46 | 193.85 | 192.2 | 199.16 | 189.32 | 176.18 | 177.1 | 194.28 | 202.36 | 203.82 | 202.95 | 203.54 | 191.85 | 206.98 | 209.57 | 210.79 | 213.44 | 219.54 | 228.46 | 228.55 | 211.92 | 214.63 | 206.43 |
| OPERATING RESERVE | | -13.77 | -12.46 | -24.85 | -23.2 | -30.16 | -20.32 | -7.18 | -5.1 | -22.28 | -30.36 | -21.32 | -20.45 | -21.04 | -9.35 | -24.48 | -27.07 | -28.29 | -30.94 | -20.04 | -28.96 | -29.05 | -19.92 | -62.63 | -95.43 |

EAST COAST GRID OPERATION



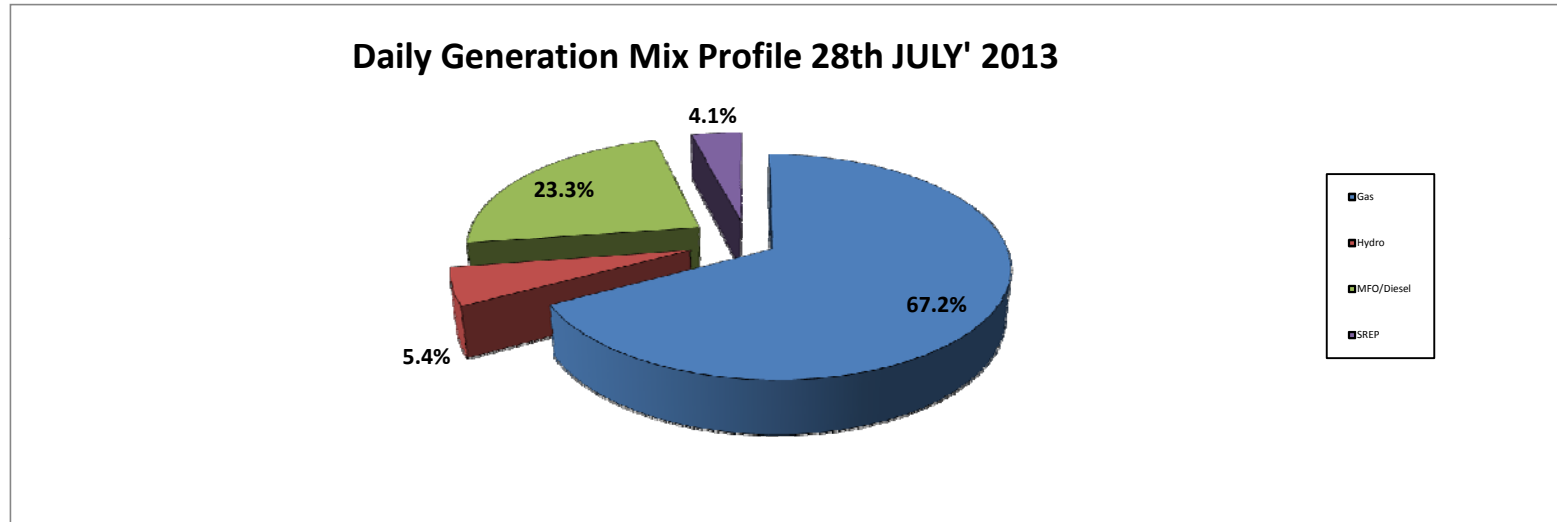
| WEST COAST GRID | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 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 | | 496.5 | 479 | 479 | 479 | 474.5 | 474.5 | 474.5 | 474.5 | 474.5 | 515.5 | 515.5 | 526.5 | 515.5 | 515.5 | 515.5 | 527.5 | 587.5 | 587.5 | 617.5 | 628.5 | 628.5 | 587.5 | 587.5 | 587.5 |
| DEMAND | | 453.7 | 436 | 427.1 | 421.1 | 417.4 | 405.6 | 379.6 | 373.7 | 408.6 | 454.8 | 461.3 | 464.3 | 449.3 | 443 | 445.5 | 449.19 | 451.7 | 477.1 | 502.5 | 523.1 | 526.4 | 498.9 | 500.1 | 496.3 |
| OPERATING RESERVE | | 42.8 | 43 | 51.9 | 57.9 | 57.1 | 68.9 | 94.9 | 100.8 | 65.9 | 60.7 | 54.2 | 62.2 | 66.2 | 72.5 | 70 | 78.31 | 135.8 | 110.4 | 115 | 105.4 | 102.1 | 88.6 | 87.4 | 91.2 |

WEST COAST GRID OPERATION



Generation Mix Profile for 28th JULY 2013

| | |
|------------|-----------|
| Gas | 9,272 MWh |
| Hydro | 744 MWh |
| MFO/Diesel | 3,212 MWh |
| SREP | 561 MWh |



| | MFO/DIESEL | GAS | HYDRO | BIOMASS |
|--------------|---------------------|---------------------|-------------------|-------------------|
| SESB | 1,645.46 MWh | 1,724.78 MWh | 718.20 MWh | - MWh |
| IPP | 1,566.54 MWh | 7,546.81 MWh | 26.20 MWh | - MWh |
| SREP | - MWh | - MWh | MWh | 560.59 MWh |
| TOTAL | 3,212.00 MWh | 9,271.59 MWh | 744.40 MWh | 560.59 MWh |

| | MFO/DIESEL | GAS | HYDRO | BIOMASS |
|----------------|------------------|-------------|-------------|-------------|
| SESB | 12% | 13% | 5% | 0% |
| IPP | 11% | 55% | 0% | 0% |
| SREP | 0% | 0% | 0% | 4% |
| TOTAL | 100% | 100% | 100% | 100% |
| TOTALLY | 13,788.58 | | | |

| | |
|--------------|------|
| DIST (IPP) | 11% |
| DIST (SESB) | 12% |
| SREP | 4% |
| GAS (SESB) | 13% |
| GAS (IPP) | 55% |
| HYDRO (SESB) | 5% |
| HYDRO (IPP) | 0% |
| total | 100% |

