

**GRID SYSTEM OPERATION SUMMARY (SABAH)**

	<b>FORECAST</b>	<b>ACTUAL</b>	<b>VARIANCE</b>
<b>Maximum Demand (20th NOV' 2012)</b>	800 MW	765 MW	-4.39%
<b>Maximum Energy (20th NOV' 2012)</b>	15.8 MW	15.2 GWh	-3.80%
<b>Maximum Demand (record high 28/06/11)</b>	800 MW	830 MW	3.76%

Prepared by:

Electricity Market Operations

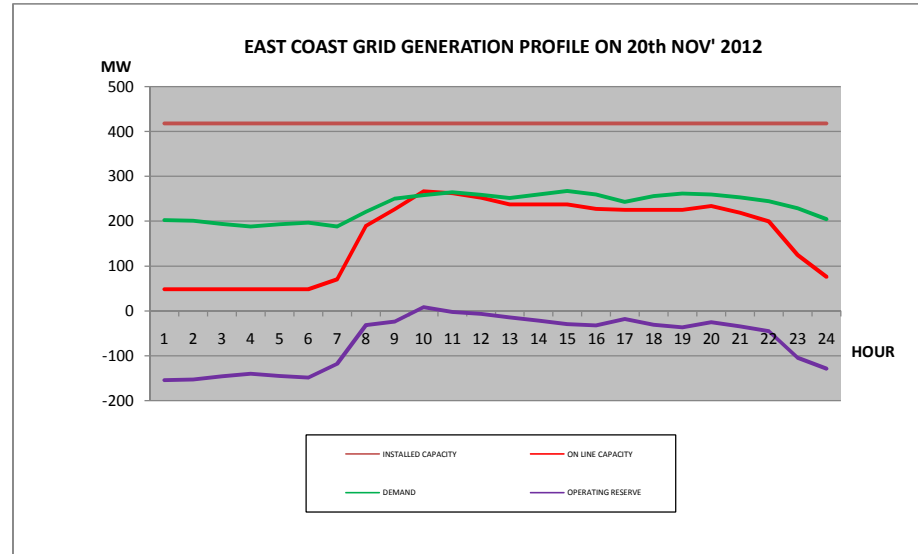
Electricity Supply & Market Regulations Dept.

Energy Commission Malaysia

10-Dec-12

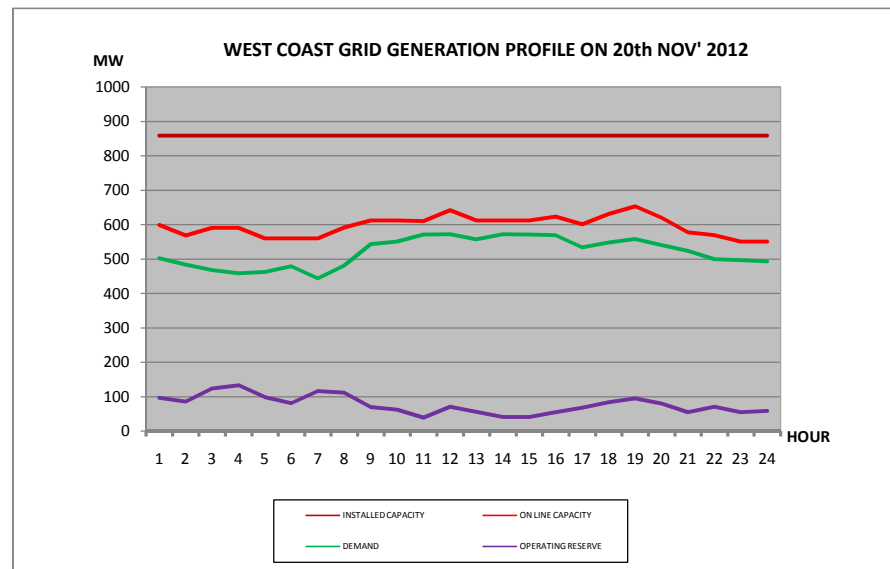
EAST COAST GRID																									
<b>INSTALLED CAPACITY</b>		417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	417.9	
<b>ON LINE CAPACITY</b>		48	48	48	48	48	48	70	189	226.5	266.3	262.3	252.3	237.3	237.3	237.3	226.8	224.8	224.8	233.8	218.8	199	124	76	
<b>DEMAND</b>		202.41	201.2	193.93	188.48	192.96	196.75	188.18	220.77	250.39	258.02	264.39	258.74	251.62	259.33	267.18	259.21	242.77	255.85	261.51	259.28	253.09	244.06	228.58	204.47
<b>OPERATING RESERVE</b>		-154.41	-153.2	-145.93	-140.48	-144.96	-148.75	-118.18	-31.77	-23.89	8.28	-2.09	-6.44	-14.32	-22.03	-29.88	-32.41	-17.97	-31.05	-36.71	-25.48	-34.29	-45.06	-104.58	-128.47
East Cost		6824.69	6869.77	6866.37	7031.93	7023.64	6967.84	10055.4	20843.7	26351.9	29796.6	29499.4	27557.7	28769.5	29426.7	29618.6	28659.3	27558.2	27673.4	27159.4	27387.7	26819.7	23062.1	16497.4	9232.44

EAST COAST GRID OPERATION



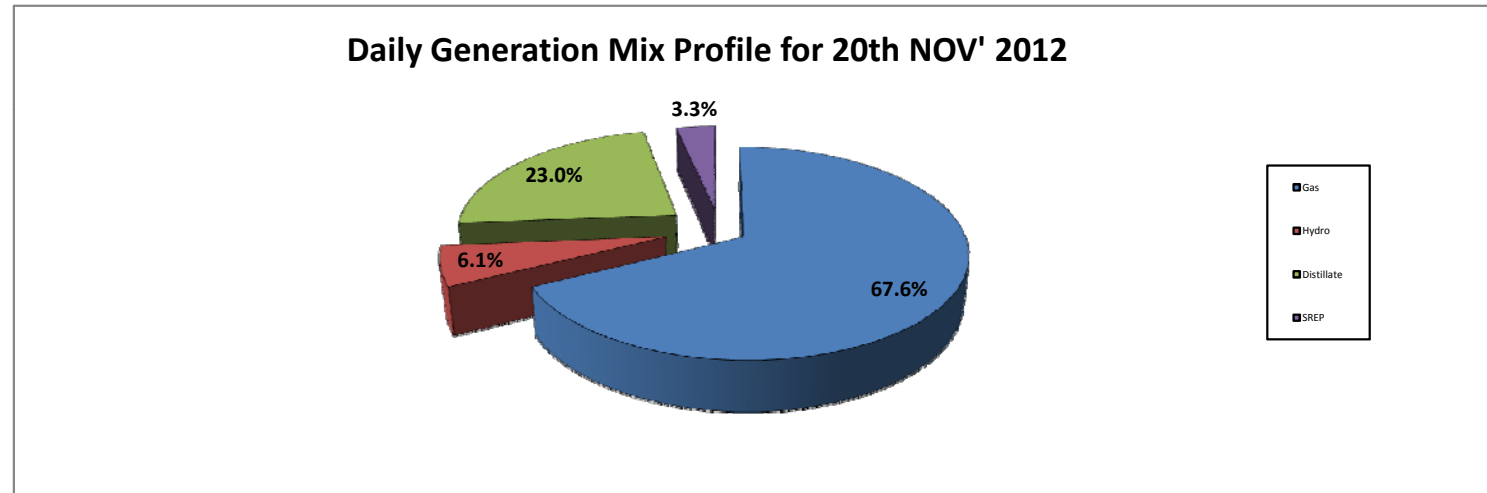
WEST COAST GRID																									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<b>INSTALLED CAPACITY</b>		858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5
<b>ON LINE CAPACITY</b>		599	569	591	591	560	560	560	592	612	612	610	642	612	612	612	623	601	631	653	620	578	570	551	551
<b>DEMAND</b>		502.4	483.7	467.5	458	461.9	479.2	443.5	480.5	542.5	550	571.1	571.2	556.4	571.6	571.1	568.5	533.6	547.8	558.1	539.9	523.7	499.3	496.4	492.7
<b>OPERATING RESERVE</b>		96.6	85.3	123.5	133	98.1	80.8	116.5	111.5	69.5	62	38.9	70.8	55.6	40.4	40.9	54.5	67.4	83.2	94.9	80.1	54.3	70.7	54.6	58.3
West Cost		40163.5	37713.4	35406	35001.1	34598.8	35858.4	33980.7	38417.1	44674.9	45256.9	47015.3	47841.2	46397.1	46993.7	46944.3	46951.9	46289.4	48007	47636.7	45219	43226.7	40635.1	39270.6	38959.8

WEST COAST GRID OPERATION



**Generation Mix Profile for 20th November 2012**

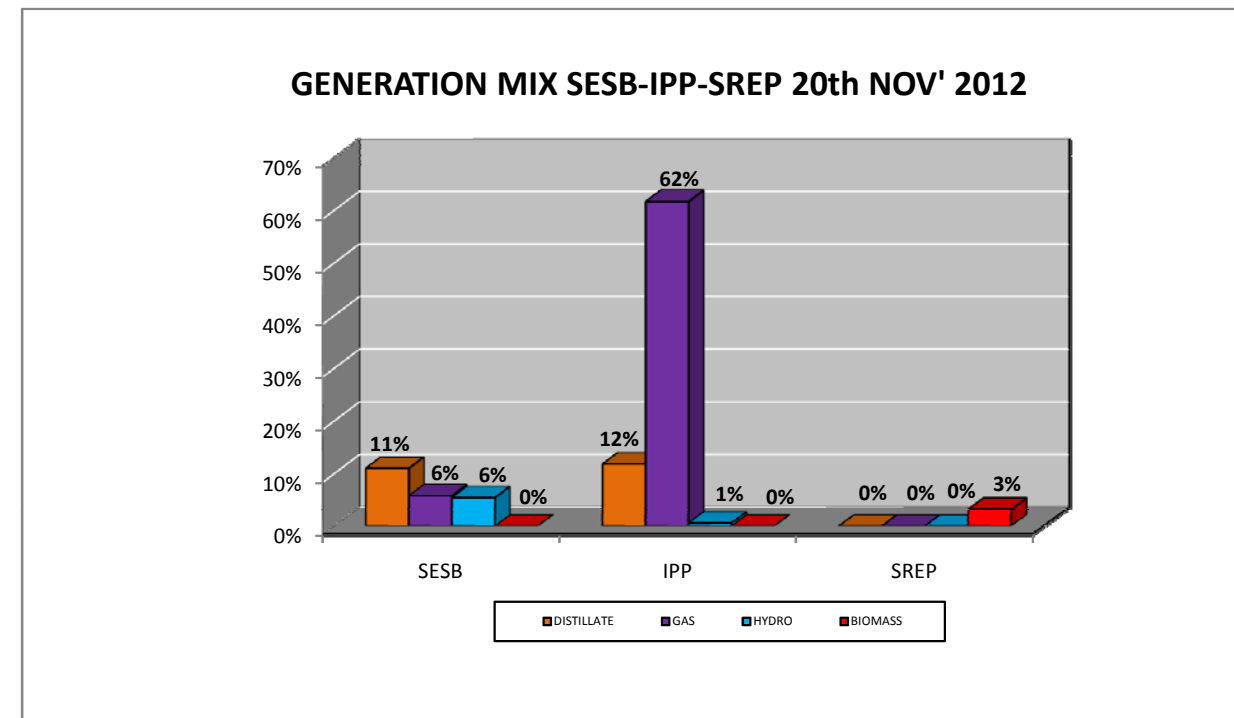
Gas	10,590 MWh
Hydro	957 MWh
Distillate	3,600 MWh
SREP	517 MWh



	DISTILLATE	GAS	HYDRO	BIOMASS
SESB	1,736.20 MWh	920.20 MWh	864.00 MWh	- MWh
IPP	1,863.90 MWh	9,669.70 MWh	92.60 MWh	- MWh
SREP	- MWh	- MWh	- MWh	516.70 MWh
<b>TOTAL</b>	<b>3,600.10 MWh</b>	<b>10,589.90 MWh</b>	<b>956.60 MWh</b>	<b>516.70 MWh</b>

	DISTILLATE	GAS	HYDRO	BIOMASS
SESB	11%	6%	6%	0%
IPP	12%	62%	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>	15,663.30			

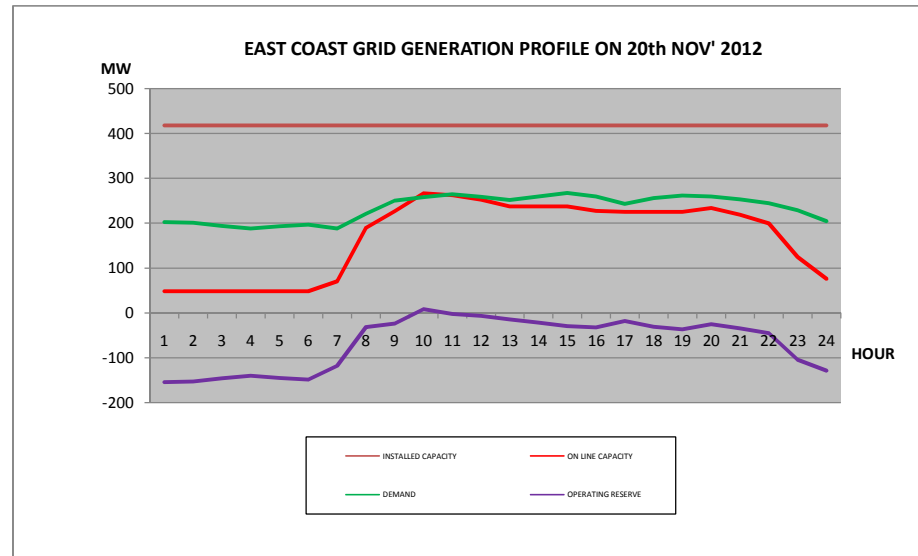
DIST (IPP)	12%
DIST (SESB)	11%
SREP	3%
GAS (SESB)	6%
GAS (IPP)	62%
HYDRO (SESB)	6%
HYDRO (IPP)	1%
total	100%



**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>		48	48	48	48	48	48	70	189	226.5	266.3	262.3	252.3	237.3	237.3	237.3	226.8	224.8	224.8	233.8	218.8	199	124	76	
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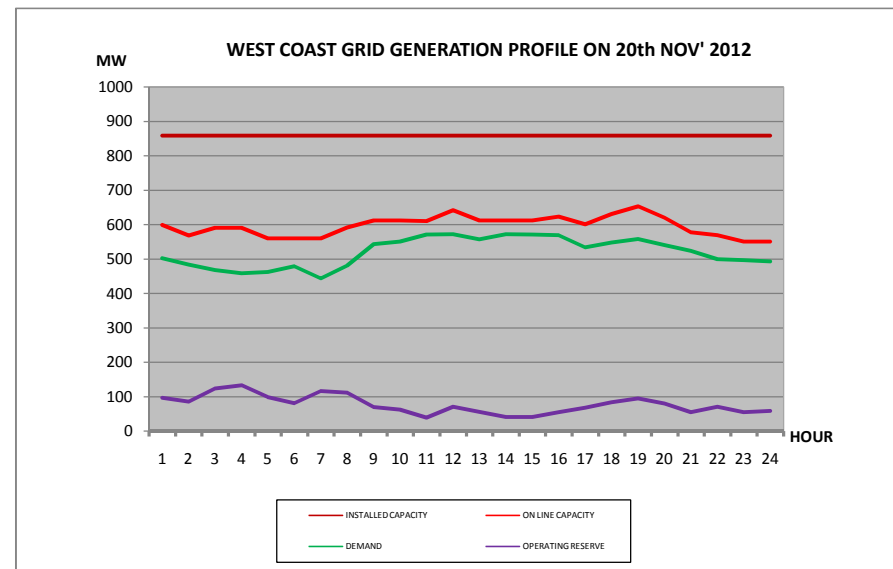
EAST COAST GRID OPERATION



**WEST COAST GRID**

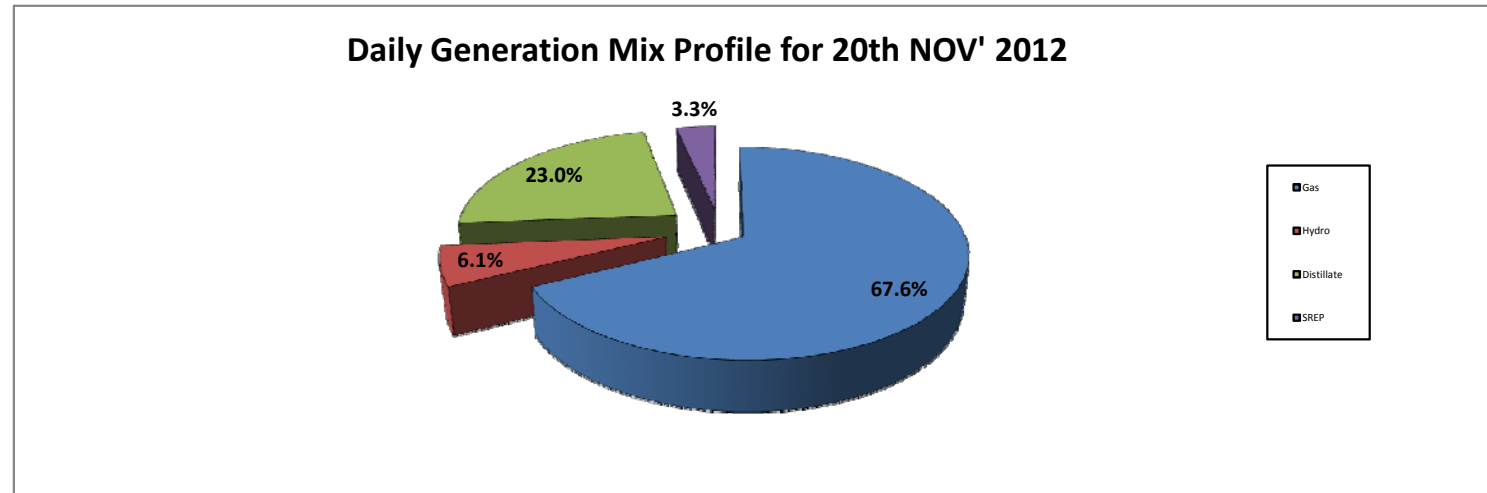
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>
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