

**Availability At Daily Maximum Demand Hour**

ST-Coal	1,380	MW
ST-Gas	0	MW
ST-Oil	0	MW
Gas	3,422	MW
Hydro	1,701	MW
Distillate	202	MW
<b>Total TNB</b>	<b>6,705</b>	<b>MW</b>
<b>Total IPP</b>	<b>10,881</b>	<b>MW</b>
<b>Total Co-Gen</b>	<b>74</b>	<b>MW</b>
<b>System Total</b>	<b>17,660</b>	<b>MW</b>

**Set On Bus, TNB, IPP And MD**

At Daily Maximum Demand Hour : 15:00

TNB Generation	6,066	MW
IPP Generation	10,121	MW
Total Set On Bus	17,217	MW
Maximum Demand	16,226	MW
Spinning Reserve	956	MW
Net Energy	340,859	MWH
Load Factor	87.5	%
Total Cost	71,983,024	RM
Cost per Unit	21.78	cents/kWH

**Maximum Demand Record**

Date :	13/05/2013	16,562.0 MW
Date :	25/06/2013	345,254.0 MWH

**Hourly System MW Generation**

	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
System Total	13784	13167	12630	12239	11865	11619	11661	11764	12333	14058	15019	15693	15697	15508	16028	16226	16148	15958	14825	14425	15316	15303	14776	14480

**Gas Usage**

Station	(mmscfd)
CBPS	113
GLGR	40
PAKA	171
PGPS	32
SRDG	52
TJGS	165
<b>TNB Total</b>	<b>572</b>
KLPP	121
MPSS	62
PDPS	52
PGLA	117
PLPS	107
PTEK	29
SGB3	47
SGRI	155
SKSP	58
YPGS	13
YPKA	130
<b>IPP Total</b>	<b>890</b>
<b>Total Gas</b>	<b>1,463</b>
<b>Total Gas Required :</b>	<b>1,691</b>
<b>Gas Calorific Value :</b>	<b>38.500</b>

**Alternate Fuel Usage**

Station	(mmscfd)
PGGS	7
PGPS	14
PKLG	124
PTEK	19
SGB3	22
SGRI	43
<b>Total</b>	<b>229</b>

**Generation Mix**

Type	MWh	Percentage
ST-Coal	32,813.00	9.63 %
Gas	70,610.00	20.72 %
Hydro	11,021.00	3.23 %
Distillate	2,298.00	0.67 %
<b>Total TNB</b>	<b>116,742.0</b>	<b>34.25 %</b>
ST-Coal	87,173.0	25.57 %
ST-Oil	12,175.0	3.57 %
Gas	113,897.0	33.41 %
Distillate	9,539.0	2.80 %
<b>Total IPP</b>	<b>222,784.0</b>	<b>65.36 %</b>
Co-Gen	2,007.0	0.59 %
<b>Total Co-Gen</b>	<b>2,007.0</b>	<b>0.59 %</b>
<b>Total Generation</b>	<b>341,533.0</b>	<b>100.20 %</b>
PLTG	-56.0	-0.02 %
HVDC	730.0	0.21 %
<b>Interconnection</b>	<b>674.0</b>	<b>0.20 %</b>
<b>Net Energy</b>	<b>340,859.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	445
Hydro	163
Syncon	387
Thermal	95
<b>Total</b>	<b>1090</b>

**Weather Temperature**

	Weather	Temperature
Morning	Cloudy	30
Afternoon	Hot	37





Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300																																					
KNYR	HY03	59	68	69	58	87	103	57	58	60	104	103	104	104	55	54	53	97	100	84	69	102	79	102	102	61	72	80	66	102	97	84	93	62	67	64	59	57	56	61	103	99	101	100	102	90	102	102	101													
LPJA	HY01	16	16	15	15	16	16	16	16	16	16	16	16	16	15	16	17	18	18	18	18	18	18	14	14	14	14	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	16	16	16	16	16											
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3												
PGAU	HY01	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	113	113	113	113	113	24	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1										
PGAU	HY02	0	20	-1	-1	20	-1	-1	-1	20	-1	-1	-1	30	112	0	0	0	0	0	0	0	0	0	0	0	0	0	115	123	134	134	115	115	116	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1												
PGAU	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1												
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	50	50	50	50	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	50	50	50	50	50	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	25	25	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	25	25	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	24	24	24	24	24	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	25	25	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1										
TMGR	HY02	37	37	39	36	40	41	36	36	36	51	36	40	41	28	28	34	38	36	36	35	37	36	82	85	77	80	80	84	85	84	84	84	84	84	31	31	30	35	44	32	34	33	39	25	41	35	30	0	0	0	0										
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1									
TMGR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	77	76	77	77	77	77	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
UPLA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5								
<b>Total Hydro</b>		<b>164</b>	<b>195</b>	<b>177</b>	<b>166</b>	<b>223</b>	<b>219</b>	<b>166</b>	<b>167</b>	<b>189</b>	<b>233</b>	<b>214</b>	<b>221</b>	<b>253</b>	<b>266</b>	<b>153</b>	<b>158</b>	<b>212</b>	<b>381</b>	<b>512</b>	<b>497</b>	<b>501</b>	<b>475</b>	<b>599</b>	<b>722</b>	<b>734</b>	<b>760</b>	<b>695</b>	<b>758</b>	<b>969</b>	<b>1253</b>	<b>1235</b>	<b>1135</b>	<b>1099</b>	<b>1024</b>	<b>801</b>	<b>409</b>	<b>271</b>	<b>211</b>	<b>181</b>	<b>344</b>	<b>509</b>	<b>519</b>	<b>479</b>	<b>491</b>	<b>424</b>	<b>218</b>	<b>209</b>	<b>202</b>													
PGGS	GT6A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
PGPS	GT3A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
PTEK	GT2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	106	106	107	107	106	105	106	106	104	105	106	105	105	105	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTEK	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104	104	104	104	103	103	102	104	103	103	103	103	103	103	104	103	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGB3	GT33	125	125	125	125	105	88	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85	124	121	122	122	123	123	122	122	122	122	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	125							
SGRI	GT13	125	125	125	125	120	120	121	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	123	122	122	122	123	123	122	122	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	124	124	124							
SGRI	GT21	119	119	120	120	117	117	117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118	117	117	116	116	117	117	116	116	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117					
<b>Total Distillate</b>		<b>369</b>	<b>369</b>	<b>370</b>	<b>370</b>	<b>362</b>	<b>342</b>	<b>326</b>	<b>137</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>191</b>	<b>191</b>	<b>244</b>	<b>516</b>	<b>624</b>	<b>761</b>	<b>759</b>	<b>759</b>	<b>764</b>	<b>763</b>	<b>758</b>	<b>759</b>	<b>679</b>	<b>658</b>	<b>662</b>	<b>663</b>	<b>662</b>	<b>662</b>	<b>662</b>	<b>631</b>	<b>454</b>	<b>453</b>	<b>457</b>	<b>456</b>	<b>456</b>											
PCUF	CUFG	47	48	47	50	49	49	50	50	49	51	51	51	51	51	52	51	51	49	48	49	48	48	46	47	46	47	46	47	45	46	46	45	46	47	46	47	47	48	47	48	49	47	46	47	47	48	48	49	49	49	49										
PCUF	CUFK	38	38	39	39	39	39	39	39	38	39	39	38	39	38	39	40	38	40	39	38	37	34	36	39	41	38	35	34	33	32	28	29	29	29	29	29	31	32	31	32	31	32	31	31	34	34	34	34	34	34	35	35	35								
<b>Total Co-Gen</b>		<b>85</b>	<b>86</b>	<b>86</b>	<b>89</b>	<b>88</b>	<b>88</b>	<b>89</b>	<b>89</b>	<b>87</b>	<b>90</b>	<b>90</b>	<b>89</b>	<b>90</b>	<b>89</b>	<b>91</b>	<b>91</b>	<b>89</b>	<b>89</b>	<b>87</b>	<b>87</b>	<b>85</b>	<b>82</b>	<b>82</b>	<b>86</b>	<b>87</b>	<b>85</b>	<b>81</b>	<b>81</b>	<b>78</b>	<b>78</b>	<b>74</b>	<b>74</b>	<b>75</b>	<b>76</b>	<b>75</b>	<b>78</b>	<b>79</b>	<b>79</b>	<b>79</b>	<b>79</b>	<b>79</b>	<b>80</b>	<b>81</b>	<b>80</b>	<b>81</b>	<b>81</b>	<b>81</b>	<b>82</b>	<b>83</b>	<b>84</b>											
<b>Total Gen</b>		<b>13827</b>	<b>13460</b>	<b>13183</b>	<b>12958</b>	<b>12676</b>	<b>12509</b>	<b>12240</b>	<b>12023</b>	<b>11851</b>	<b>11747</b>	<b>11597</b>	<b>11611</b>	<b>11670</b>	<b>11793</b>	<b>11830&lt;/</b>																																														

Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300																								
Syncon		411	260	411	411	260	411	411	411	260	411	411	731	625	474	474	474	474	474	323	237	237	237	474	474	237	237	237	237	238	389	475	581	581	581	475	475	475	475	475	581	581	581						
Hydro		118	238	111	115	210	63	116	115	244	49	68	61	180	166	129	125	72	114	134	149	145	167	43	71	145	122	189	189	113	186	204	304	340	264	236	131	163	118	111	54	94	84	123	110	177	72	81	88
S.Reserve Total		992	908	832	1056	959	1046	1278	1498	1639	1727	1720	1688	1659	1518	2032	2148	2109	1340	1224	1052	1195	1086	1025	992	975	1188	1220	1322	1146	1018	956	1079	1163	1061	1126	1238	1611	1893	1979	1257	1108	1085	1142	974	1312	976	1156	1020