

**Availability At Daily Maximum Demand Hour**

ST-Coal	1,380 MW
ST-Gas	70 MW
ST-Oil	0 MW
Gas	3,141 MW
Hydro	1,812 MW
Distillate	900 MW
<b>Total TNB</b>	<b>7,303 MW</b>
<b>Total IPP</b>	<b>8,732 MW</b>
<b>Total Co-Gen</b>	<b>74 MW</b>
<b>System Total</b>	<b>16,109 MW</b>

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

At Daily Maximum Demand Hour : 16:00	
TNB Generation	6,282 MW
IPP Generation	7,781 MW
Total Set On Bus	15,023 MW
Maximum Demand	14,129 MW
Spinning Reserve	886 MW
Net Energy	296,672 MWH
Load Factor	87.5 %
Total Cost	60,800,815 RM
Cost per Unit	21.54 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	11701	11228	10767	10468	10256	10020	10085	10441	10762	12166	12872	13442	13630	13480	13794	14047	14129	13790	12815	12668	13814	13720	13336	13093

**Gas Usage**

Station	(mmscfd)
CBPS	43
GLGR	65
PAKA	108
PGPS	15
SRDG	1
TJGS	221
<b>TNB Total</b>	<b>453</b>
KLPP	102
MPSS	65
PGLA	114
PKLG	13
PLPS	77
SGB3	47
SGRI	122
SKSP	53
YPGS	69
YPKA	101
<b>IPP Total</b>	<b>763</b>
<b>Total Gas</b>	<b>1,216</b>
<b>Total Gas Required :</b>	<b>1,508</b>
<b>Gas Calorific Value :</b>	<b>38,500</b>

**Alternate Fuel Usage**

Station	(mmscfd)
CBPS	26
KLPP	20
PDPS	28
PGPS	34
PKLG	73
PTEK	6
SGB3	40
SGRI	26
SRDG	37
<b>Total</b>	<b>291</b>

**Generation Mix**

Type	MWh	Percentage
ST-Coal	32,869.00	11.08 %
Gas	60,139.00	20.27 %
Hydro	15,125.00	5.10 %
Distillate	10,152.00	3.42 %
<b>Total TNB</b>	<b>118,285.0</b>	<b>39.87 %</b>
ST-Coal	55,932.0	18.85 %
ST-Gas	1,207.0	0.41 %
ST-Oil	7,130.0	2.40 %
Gas	99,143.0	33.42 %
Distillate	13,945.0	4.70 %
<b>Total IPP</b>	<b>177,357.0</b>	<b>59.78 %</b>
Co-Gen	1,912.0	0.64 %
<b>Total Co-Gen</b>	<b>1,912.0</b>	<b>0.64 %</b>
<b>Total Generation</b>	<b>297,554.0</b>	<b>100.30 %</b>
PLTG	158.0	0.05 %
HVDC	724.0	0.24 %
<b>Interconnection</b>	<b>882.0</b>	<b>0.30 %</b>
<b>Net Energy</b>	<b>296,672.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	371
Hydro	249
Syncon	231
Thermal	36
<b>Total</b>	<b>887</b>

**Weather Temperature**

Weather	Temperature
Morning	Sunny 28
Afternoon	Hot 32





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
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
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
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
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
TMGR	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
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
TMGR	HY04	41	31	30	29	36	35	28	36	33	24	32	28	38	30	38	50	41	40	35	42	42	31	36	40
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
UPIA	HY02	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
<b>Total Hydro</b>		<b>201</b>	<b>188</b>	<b>186</b>	<b>185</b>	<b>193</b>	<b>192</b>	<b>220</b>	<b>185</b>	<b>194</b>	<b>211</b>	<b>179</b>	<b>188</b>	<b>182</b>	<b>196</b>	<b>203</b>	<b>192</b>	<b>210</b>	<b>306</b>	<b>356</b>	<b>392</b>	<b>551</b>	<b>992</b>	<b>972</b>	<b>1145</b>
CBPS	GT03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CBPS	GT05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CBPS	GT06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PDPS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PDPS	GT03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PDPS	GT04	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
PGPS	GT3B	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	ST3C	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	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
SGB3	GT31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	GT33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRDG	GT03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRDG	GT05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Distillate</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>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
PCUF	CUFG	42	44	42	43	43	44	44	43	44	45	46	45	44	44	45	46	43	40	41	40	41	40	41	40
PCUF	CUFK	39	40	40	41	38	38	40	40	39	40	39	40	39	40	39	39	40	39	34	34	35	35	33	34
<b>Total Co-Gen</b>		<b>81</b>	<b>84</b>	<b>82</b>	<b>84</b>	<b>81</b>	<b>82</b>	<b>84</b>	<b>83</b>	<b>84</b>	<b>84</b>	<b>86</b>	<b>84</b>	<b>84</b>	<b>84</b>	<b>87</b>	<b>84</b>	<b>82</b>	<b>84</b>	<b>82</b>	<b>82</b>	<b>79</b>	<b>75</b>	<b>74</b>	
<b>Total Gen</b>		<b>11649</b>	<b>11503</b>	<b>11253</b>	<b>10985</b>	<b>10775</b>	<b>10554</b>	<b>10462</b>	<b>10269</b>	<b>10248</b>	<b>10201</b>	<b>10121</b>	<b>10236</b>	<b>10192</b>	<b>10442</b>	<b>10532</b>	<b>10470</b>	<b>10839</b>	<b>11554</b>	<b>12162</b>	<b>12482</b>	<b>12823</b>	<b>13254</b>	<b>13442</b>	
TIE-EGAT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TIE-HVDC		31	31	31	31	30	30	31	31	30	29	31	31	30	30	30	30	30	30	30	29	29	29	29	29
TIE-PLTG		-83	-15	-6	-40	-22	-7	-37	4	-38	-6	70	43	76	20	61	-77	47	-27	-34	24	-79	-28	51	
<b>Interconnection</b>		<b>-52</b>	<b>16</b>	<b>25</b>	<b>71</b>	<b>8</b>	<b>23</b>	<b>-6</b>	<b>35</b>	<b>-8</b>	<b>23</b>	<b>101</b>	<b>74</b>	<b>107</b>	<b>51</b>	<b>91</b>	<b>-47</b>	<b>77</b>	<b>3</b>	<b>-4</b>	<b>54</b>	<b>-49</b>	<b>2</b>		
<b>System Total</b>		<b>11701</b>	<b>11487</b>	<b>11228</b>	<b>10914</b>	<b>10767</b>	<b>10531</b>	<b>10468</b>	<b>10234</b>	<b>10256</b>	<b>10178</b>	<b>10020</b>	<b>10162</b>	<b>10085</b>	<b>10391</b>	<b>10441</b>	<b>10517</b>	<b>10762</b>	<b>11551</b>	<b>12166</b>	<b>12428</b>	<b>12872</b>	<b>13252</b>	<b>13442</b>	
SRev ST-Coal		22	3	13	14	15	23	20	79	137	136	143	131	145	134	133	143	35	15	7	34	19	21	26	
SRev ST-Gas		0	0	0	0	0	0	0	0	159	137	100	65	68	72	75	74	74	76	76	39	35	0	0	
SRev ST-Oil		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SRev CCGT-Gas		54	139	175	443	437	650	785	883	846	936	1101	1042	1101	1008	1020	1394	910	558	427	294	280	248	247	
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

*Daily MW Generation On Tuesday*
*04-Feb-2014*

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																									
SRev Distillate		0	0	0	0	0	0	0	0	0	0	0	0	71	91	72	143	84	87	85	147	106	109	107	190	125	160	141	145	145	143	214	154	151	170	267	298	327	143	140	136	135	136	130	177	188	101			
SRev Co-Gen		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
Syncon		731	731	731	731	731	580	731	731	580	731	731	731	580	731	731	625	474	625	625	172	172	172	172	323	323	474	323	86	86	86	86	86	0	237	625	625	625	625	323	323	323	474	625	625	625	625	625		
Hydro		111	124	126	127	119	120	243	127	118	252	133	124	130	116	260	120	102	112	318	131	77	289	459	447	430	204	371	269	305	233	353	306	320	372	103	289	156	275	287	160	228	129	153	177	174	155	88	107	
S.Reserve Total		918	997	1045	1315	1302	1524	1628	1820	1832	2063	2245	2128	2172	2057	2136	2554	1924	1527	1386	1247	1164	955	1056	1023	1030	1023	1148	1254	1118	852	887	959	886	928	834	1119	1435	1567	1850	1260	1116	1012	956	1037	1142	1388	1285	1255	