

**Availability At Daily Maximum Demand Hour**

ST-Coal	1,380 MW
ST-Gas	70 MW
ST-Oil	0 MW
Gas	3,585 MW
Hydro	1,861 MW
Distillate	0 MW
<b>Total TNB</b>	<b>6,896 MW</b>
<b>Total IPP</b>	<b>11,508 MW</b>
<b>Total Co-Gen</b>	<b>80 MW</b>
<b>System Total</b>	<b>18,484 MW</b>

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

At Daily Maximum Demand Hour : 11:30

TNB Generation	5,149 MW
IPP Generation	9,573 MW
Total Set On Bus	15,956 MW
Maximum Demand	14,914 MW
Spinning Reserve	1,154 MW
Net Energy	314,081 MWH
Load Factor	87.7 %
Total Cost	RM
Cost per Unit	RM

**Maximum Demand Record**

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

**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	12605	11875	11605	11218	11075	10842	10999	11327	11775	13347	14135	14814	14785	14189	14110	14571	14574	14381	13533	13545	14059	13715	13157	12663

**Gas Usage**

Station	(mmscfd)
CBPS	56
GLGR	65
PAKA	170
PGPS	53
SRDG	11
TJGS	132
<b>TNB Total</b>	<b>488</b>
KLPP	113
MPSS	58
PGLA	111
PKLG	53
PLPS	105
SGB3	86
SGRI	172
SKSP	53
YPKA	136
<b>IPP Total</b>	<b>887</b>
<b>Total Gas</b>	<b>1,375</b>
<b>Total Gas Required :</b>	<b>1,375</b>
<b>Gas Calorific Value :</b>	<b>38.500</b>

**Generation Mix**

Type	MWh	Percentage
ST-Coal	32,983.00	10.50 %
Gas	60,619.00	19.30 %
Hydro	12,837.00	4.09 %
<b>Total TNB</b>	<b>106,439.0</b>	<b>33.89 %</b>
ST-Coal	91,306.0	29.07 %
ST-Gas	5,138.0	1.64 %
Gas	108,310.0	34.48 %
<b>Total IPP</b>	<b>204,754.0</b>	<b>65.19 %</b>
Co-Gen	1,947.0	0.62 %
<b>Total Co-Gen</b>	<b>1,947.0</b>	<b>0.62 %</b>
<b>Total Generation</b>	<b>313,140.0</b>	<b>99.70 %</b>
PLTG	-244.0	-0.08 %
HVDC	-697.0	-0.22 %
<b>Interconnection</b>	<b>-941.0</b>	<b>-0.30 %</b>
<b>Net Energy</b>	<b>314,081.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	349
Hydro	202
Syncon	512
Thermal	158
<b>Total</b>	<b>1221</b>

	Weather	Temperature
Morning	Sunny	26
Afternoon	Hot	31





## Daily MW Generation On Friday

20-Dec-2013

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																																		
TMGR	HY04	32	37	29	36	33	36	32	30	35	34	35	37	38	46	42	36	29	40	35	35	36	35	79	78	79	79	34	34	35	36	35	36	35	36	35	36	35	34	36	37	38	36	33	34	34	33	36	33	32	37								
UPIA	HY01	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
UPIA	HY02	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
<b>Total Hydro</b>		<b>323</b>	<b>297</b>	<b>263</b>	<b>289</b>	<b>256</b>	<b>289</b>	<b>233</b>	<b>230</b>	<b>259</b>	<b>233</b>	<b>235</b>	<b>274</b>	<b>286</b>	<b>421</b>	<b>276</b>	<b>210</b>	<b>299</b>	<b>425</b>	<b>492</b>	<b>492</b>	<b>587</b>	<b>774</b>	<b>829</b>	<b>911</b>	<b>903</b>	<b>798</b>	<b>532</b>	<b>537</b>	<b>528</b>	<b>552</b>	<b>692</b>	<b>721</b>	<b>718</b>	<b>751</b>	<b>746</b>	<b>645</b>	<b>565</b>	<b>566</b>	<b>694</b>	<b>832</b>	<b>803</b>	<b>805</b>	<b>804</b>	<b>802</b>	<b>785</b>	<b>654</b>	<b>675</b>	<b>627</b>										
PCUF	CUFG	42	42	42	43	44	42	43	42	43	42	44	42	42	43	43	41	42	42	42	40	40	40	40	40	40	41	42	40	40	42	42	39	41	42	40	40	40	40	40	40	41	41	41	41	42	41	41	43	43	41								
PCUF	CUFK	40	39	39	39	42	40	40	40	39	38	39	40	40	40	40	40	38	39	39	39	40	40	39	40	39	41	40	40	40	40	40	41	40	39	39	38	39	39	39	39	39	39	42	40	39	39	41	39	40	39	40							
<b>Total Co-Gen</b>		<b>82</b>	<b>81</b>	<b>81</b>	<b>82</b>	<b>86</b>	<b>82</b>	<b>83</b>	<b>82</b>	<b>81</b>	<b>81</b>	<b>81</b>	<b>84</b>	<b>81</b>	<b>82</b>	<b>83</b>	<b>83</b>	<b>81</b>	<b>80</b>	<b>81</b>	<b>81</b>	<b>79</b>	<b>80</b>	<b>79</b>	<b>81</b>	<b>81</b>	<b>82</b>	<b>80</b>	<b>80</b>	<b>82</b>	<b>83</b>	<b>79</b>	<b>80</b>	<b>81</b>	<b>78</b>	<b>79</b>	<b>79</b>	<b>79</b>	<b>83</b>	<b>81</b>	<b>80</b>	<b>81</b>	<b>82</b>	<b>80</b>	<b>83</b>	<b>82</b>	<b>81</b>												
<b>Total Gen</b>		<b>12634</b>	<b>12122</b>	<b>11906</b>	<b>11647</b>	<b>11561</b>	<b>11368</b>	<b>11210</b>	<b>11067</b>	<b>11091</b>	<b>10933</b>	<b>10803</b>	<b>10914</b>	<b>10990</b>	<b>11198</b>	<b>11213</b>	<b>11182</b>	<b>11754</b>	<b>12666</b>	<b>13242</b>	<b>13712</b>	<b>14109</b>	<b>14434</b>	<b>14755</b>	<b>14802</b>	<b>14767</b>	<b>14467</b>	<b>14180</b>	<b>14057</b>	<b>14068</b>	<b>14495</b>	<b>14476</b>	<b>14709</b>	<b>14532</b>	<b>14539</b>	<b>14329</b>	<b>13899</b>	<b>13430</b>	<b>13341</b>	<b>13493</b>	<b>14145</b>	<b>14056</b>	<b>13902</b>	<b>13721</b>	<b>13426</b>	<b>13155</b>	<b>13038</b>	<b>12669</b>	<b>12382</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	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					
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29				
TIE-PLTG		58	-3	60	-45	-15	-72	21	-15	45	43	-10	-53	20	-19	-85	-27	8	-44	-76	-35	3	-1	-30	-83	11	42	20	12	-13	4	-67	-6	-13	-82	-23	8	-74	-35	-22	-55	26	42	36	-11	27	56	35	-51										
<b>Interconnection</b>		<b>29</b>	<b>-32</b>	<b>31</b>	<b>-74</b>	<b>-44</b>	<b>-101</b>	<b>-8</b>	<b>-44</b>	<b>16</b>	<b>14</b>	<b>-39</b>	<b>-82</b>	<b>-9</b>	<b>-48</b>	<b>-114</b>	<b>-56</b>	<b>-21</b>	<b>-73</b>	<b>-105</b>	<b>-64</b>	<b>-26</b>	<b>-30</b>	<b>-59</b>	<b>-112</b>	<b>-18</b>	<b>13</b>	<b>-9</b>	<b>-17</b>	<b>-42</b>	<b>-25</b>	<b>-95</b>	<b>-34</b>	<b>-42</b>	<b>-111</b>	<b>-52</b>	<b>-21</b>	<b>-103</b>	<b>-64</b>	<b>-52</b>	<b>-85</b>	<b>-3</b>	<b>13</b>	<b>6</b>	<b>-41</b>	<b>-2</b>	<b>27</b>	<b>6</b>	<b>-80</b>										
<b>System Total</b>		<b>12605</b>	<b>12154</b>	<b>11875</b>	<b>11721</b>	<b>11605</b>	<b>11469</b>	<b>11218</b>	<b>11111</b>	<b>11075</b>	<b>10919</b>	<b>10842</b>	<b>10996</b>	<b>10999</b>	<b>11246</b>	<b>11327</b>	<b>11238</b>	<b>11775</b>	<b>12739</b>	<b>13347</b>	<b>13776</b>	<b>14135</b>	<b>14464</b>	<b>14814</b>	<b>14914</b>	<b>14785</b>	<b>14454</b>	<b>14189</b>	<b>14074</b>	<b>14110</b>	<b>14520</b>	<b>14571</b>	<b>14743</b>	<b>14574</b>	<b>14650</b>	<b>14381</b>	<b>13920</b>	<b>13533</b>	<b>13405</b>	<b>13545</b>	<b>14230</b>	<b>14059</b>	<b>13889</b>	<b>13715</b>	<b>13467</b>	<b>13157</b>	<b>13011</b>	<b>12663</b>	<b>12462</b>										
SRev ST-Coal		192	199	207	194	185	220	242	246	247	339	471	465	453	415	244	206	202	205	206	209	221	209	211	204	201	183	182	186	197	199	191	189	192	187	185	233	176	164	137	118	65	119	130	134	134	123	129	162										
SRev ST-Gas		33	27	39	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37					
SRev CCGT-Gas		896	1277	1361	1641	1708	1895	1976	2111	2114	2154	2152	2091	2035	2001	2012	1997	1604	997	813	566	284	243	183	255	238	475	609	764	693	286	426	216	337	385	493	602	760	669	673	180	292	327	408	502	366	329	228	236										
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	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	
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	0	0	0	0	0	0	0	0	0
Syncon		575	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726			
Hydro		254	129	163	137	170	125	143	146	268	145	141	102	90	106	201	116	225	202	132	134	177	267	89	158	166	322	98	93	96	99	187	196	199	155	161	162	92	90	111	223	105	104	103	105	224	103	234	130										
<b>S.Reserve Total</b>		<b>2035</b>	<b>2443</b>	<b>2581</b>	<b>2820</b>	<b>2911</b>	<b>3088</b>	<b>3209</b>	<b>3351</b>	<b>3326</b>	<b>3484</b>	<b>3612</b>	<b>3506</b>	<b>3426</b>	<b>3219</b>	<b>3154</b>	<b>3167</b>	<b>2884</b>	<b>2122</b>	<b>1861</b>	<b>1622</b>	<b>1394</b>	<b>1335</b>	<b>1190</b>	<b>1154</b>	<b>1208</b>	<b>1440</b>	<b>1579</b>	<b>1793</b>	<b>1774</b>	<b>1334</b>	<b>1553</b>	<b>1359</b>	<b>1507</b>	<b>1390</b>	<b>1552</b>	<b>1701</b>	<b>1763</b>	<b>1637</b>	<b>1634</b>	<b>1085</b>	<b>1176</b>	<b>1290</b>	<b>1396</b>	<b>1486</b>	<b>1323</b>	<b>1283</b>	<b>1172</b>	<b>1247</b>										