

**Availability At Daily Maximum Demand Hour**

ST-Coal	1,380 MW
ST-Gas	70 MW
ST-Oil	0 MW
Gas	3,806 MW
Hydro	1,813 MW
Distillate	230 MW
<b>Total TNB</b>	<b>7,299 MW</b>
<b>Total IPP</b>	<b>9,052 MW</b>
<b>Total Co-Gen</b>	<b>82 MW</b>
<b>System Total</b>	<b>17,003 MW</b>

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

At Daily Maximum Demand Hour : 20:00

TNB Generation	4,581 MW
IPP Generation	6,834 MW
Total Set On Bus	12,387 MW
Maximum Demand	11,459 MW
Spinning Reserve	890 MW
Net Energy	238,533 MWH
Load Factor	86.7 %
Total Cost	31,634,734 RM
Cost per Unit	13.87 cents/kWH

**Maximum Demand Record**

<b>Date :</b>	13/05/2013	16,562.0MW
<b>Date :</b>	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	11281	10972	10488	10005	9638	9404	9336	9269	8599	8744	9242	9420	9598	9430	9453	9653	9727	9758	9826	10000	11459	11352	11070	10997

**Gas Usage**

Station	(mmscfd)
CBPS	4
GLGR	65
PAKA	3
PGPS	56
SRDG	26
TJGS	117
<b>TNB Total</b>	<b>271</b>
KLPP	123
MPSS	3
PDPS	8
PGLA	119
PLPS	123
PTEK	12
SGB3	60
SGRI	191
SKSP	54
YPGS	25
YPKA	52
<b>IPP Total</b>	<b>769</b>
<b>Total Gas</b>	<b>1,040</b>

**Total Gas Required : 1,053**  
**Gas Calorific Value : 38.500**

**Alternate Fuel Usage**

Station	(mmscfd)
TJGS	12
<b>Total</b>	<b>12</b>

**Generation Mix**

Type	MWh	Percentage
ST-Coal	30,766.00	12.90 %
Gas	34,554.00	14.49 %
Hydro	11,263.00	4.72 %
Distillate	2,078.00	0.87 %
<b>Total TNB</b>	<b>78,661.0</b>	<b>32.98 %</b>
ST-Coal	58,707.0	24.61 %
Gas	100,021.0	41.93 %
<b>Total IPP</b>	<b>158,728.0</b>	<b>66.54 %</b>
Co-Gen	1,968.0	0.83 %
<b>Total Co-Gen</b>	<b>1,968.0</b>	<b>0.83 %</b>
<b>Total Generation</b>	<b>239,357.0</b>	<b>100.35 %</b>
PLTG	99.0	0.04 %
HVDC	725.0	0.30 %
<b>Interconnection</b>	<b>824.0</b>	<b>0.35 %</b>
<b>Net Energy</b>	<b>238,533.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	234
Hydro	133
Syncon	432
Thermal	127
<b>Total</b>	<b>926</b>

**Weather Temperature**

	Weather	Temperature
Morning	Sunny	25
Afternoon	Hot	33



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
PLPS	GT12	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133
PLPS	GT13	148	148	141	139	139	139	139	139	139	141	140	140	139	138	139	140	140	146	146	143	144	143	143	142
PLPS	ST18	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199
SKSP	BLK1	261	344	346	310	345	260	304	210	212	261	214	215	236	225	282	211	224	212	214	245	343	315	325	300
TJGS	GT1B	65	69	65	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	GT2A	230	230	230	230	230	229	231	231	230	230	230	230	229	231	232	232	232	229	229	226	227	224	224	224
TJGS	GT2B	226	226	226	226	226	227	227	227	227	229	227	227	228	228	228	226	224	225	222	222	222	222	224	224
TJGS	ST2C	268	268	268	268	268	268	265	267	267	267	267	268	268	268	266	266	266	266	265	265	265	265	265	265
Total CCGT-Gas		6431	5940	5930	5908	5757	5490	5345	5143	5107	5318	5072	5141	5134	5144	5343	4940	5048	5139	5050	5281	5398	5372	5321	5239
PDP	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PDP	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
PDP	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
PTEK	GT1A	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	GT1B	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
SRDG	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
SRDG	GT02	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
Total CCGT-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
BSIA	HY01	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
BSIA	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
CEND	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	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
KNRG	HY01	38	38	38	38	37	37	37	37	37	38	37	38	37	38	37	37	37	38	38	37	38	38	37	38
KNRG	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
KNRG	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
KNYR	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
KNYR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	HY03	61	62	60	60	61	61	60	60	61	60	60	61	60	61	61	61	102	61	61	61	61	61	59	61
KNYR	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
LPIA	HY01	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
PNOR	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
PGAU	HY01	-1	114	111	80	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	-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	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
PGAU	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
SIHY	HY01	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
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
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
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	16	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
SYPS	HY04	16	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
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	61	67	60	58	63	59	60	59	56	63	56	59	57	58	64	57	62	60	59	61	66	65	60	60

### Daily MW Generation On Friday

31-Jan-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																											
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	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4																											
Total Hydro		302	442	430	397	321	317	317	316	313	321	313	316	316	315	255	245	219	217	240	243	274	290	219	219	223	243	214	223	217	223	269	239	266	450	627	633	585	526	507	1168	1269	1186	1129	1119	1104	1002	988	970			
TJGS	GT1A	97	115	130	130	145	144	148	162	101	0	0	0	0	0	0	0	0	0	0	0	0	97	177	177	181	196	193	193	193	190	196	194	194	194	122	100	100	185	103	0	0	0	0	0	0	0	0	0			
Total Distillate		97	115	130	130	145	144	148	162	101	0	0	0	0	0	0	0	0	0	0	0	0	97	177	177	181	196	193	193	193	190	196	194	194	194	122	100	100	185	103	0	0	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	46	45	46	44	44	46	45	46	46	47	46	45	46	47	46	46	47	45	45	43	42	44	43	43	43	43	42	43	41	43	41	41	43	43	43	42	43	43	43	44	44	45	44	44	44	45	44	45			
PCUF	CUFK	38	38	39	39	40	39	40	39	39	40	42	40	39	38	40	39	38	40	37	38	37	36	36	37	35	35	35	36	34	36	35	36	38	35	36	38	38	38	38	38	38	39	39	39	39	39	38	37	39		
Total Co-Gen		84	83	85	83	84	85	85	85	85	86	86	87	86	86	84	86	86	84	83	83	79	82	80	79	79	80	77	78	76	79	75	77	78	79	81	77	79	81	81	82	82	84	83	83	83	83	81	84			
Total Gen		11325	10996	10992	10868	10521	10272	10034	9637	9677	9702	9416	9433	9378	9343	9317	8788	8680	8839	8805	9097	9301	9497	9463	9498	9584	9450	9485	9602	9495	9590	9672	9619	9731	9711	9771	9795	9818	9786	10022	10915	11497	11343	11379	11239	11134	11140	11076	10830			
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	
TIE-HVDC		30	30	30	31	31	29	29	30	30	30	30	29	29	29	31	30	30	31	31	29	31	31	30	30	31	31	30	29	31	30	29	31	31	30	29	31	31	30	29	31	31	30	30	31	30	31	31	31	31		
TIE-PLTG		14	-14	-10	-13	2	-6	0	-13	9	25	-18	-3	12	11	19	6	52	74	31	59	28	81	12	10	-45	-86	25	-15	11	13	-11	-15	-25	-33	-17	-12	-39	38	-8	-34	7	-17	-3	2	33	6	48	8			
Interconnection		44	16	20	17	33	25	29	16	39	55	12	27	42	41	48	35	81	105	61	89	59	112	43	39	-14	-55	55	15	42	44	19	15	4	-2	13	17	-8	69	22	-5	38	14	27	32	64	37	79	39			
System Total		11281	10980	10972	10851	10488	10247	10005	9821	9638	9647	9404	9406	9336	9302	9269	8753	8599	8734	8744	9008	9242	9385	9420	9459	9598	9505	9430	9587	9453	9546	9653	9604	9727	9713	9758	9778	9826	9717	10000	10920	11459	11329	11352	11207	11070	11103	10997	10791			
SRev ST-Coal		9	8	7	72	89	71	165	173	232	259	244	258	249	226	299	350	364	370	362	362	337	298	287	237	228	229	245	230	224	223	220	151	147	199	208	185	147	160	169	177	12	74	20	11	4	17	25	32			
SRev ST-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	
SRev CCGT-Gas		540	295	165	187	203	360	135	337	373	162	408	339	346	336	137	540	432	341	430	199	82	108	159	241	179	339	251	151	250	156	141	241	150	176	365	274	439	504	255	238	277	188	117	187	276	137	148	244			
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
SRev Distillate		3	-15	0	0	-15	-14	-18	-32	29	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	-1	-11	-8	-8	-8	0	1	-3	0	0	72	0	0	-85	87	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	
Syncon		731	580	580	580	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	580	580	580	625	731	731	731	731	731	731	731	731	625	731	474	474	474	474	474	323	172	172	172	172	172	172	172	172		
Hydro		100	111	123	156	81	85	85	86	89	81	89	86	86	87	47	57	83	85	223	220	189	128	93	93	89	220	98	89	95	89	43	179	46	119	92	86	134	193	568	214	346	378	253	263	277	230	243	261			
S.Reserve Total		1383	979	875	995	1089	1233	1098	1295	1454	1233	1472	1414	1412	1380	1214	1678	1610	1527	1595	1361	1188	1162	1273	1305	1226	1357	1317	1193	1292	1199	1136	1193	1074	968	1211	1019	1194	1246	1508	807	890	1148	840	978	1081	819	877	1033			