

Availability At Daily Maximum Demand Hour

ST-Coal	1,380 MW
ST-Gas	70 MW
ST-Oil	0 MW
Gas	4,550 MW
Hydro	1,494 MW
Distillate	0 MW
Total TNB	7,494 MW
Total IPP	9,616 MW
Total Co-Gen	86 MW
System Total	17,766 MW

Set On Bus, TNB, IPP And MD

At Daily Maximum Demand Hour : 21:30	
TNB Generation	4,837 MW
IPP Generation	8,431 MW
Total Set On Bus	14,224 MW
Maximum Demand	13,448 MW
Spinning Reserve	870 MW
Net Energy	284,665 MWH
Load Factor	88.2 %
Total Cost	44,527,450 RM
Cost per Unit	16.10 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	12985	12377	12030	11533	11182	11074	10791	10691	10004	10535	11189	11704	11900	11820	12108	12254	12222	11969	11659	11823	13153	13395	13261	13233

Gas Usage

Station	(mmscfd)
CBPS	40
GLGR	64
PAKA	98
PGPS	33
TJGS	222
TNB Total	457
KLPP	101
MPSS	42
PGLA	109
PLPS	63
SGB3	45
SGRI	201
SKSP	21
YPGS	56
YPKA	59
IPP Total	697
Total Gas	1,154
Total Gas Required :	1,154
Gas Calorific Value :	38,500

Generation Mix

Type	MWh	Percentage
ST-Coal	32,894.00	11.56 %
Gas	61,181.00	21.49 %
Hydro	7,374.00	2.59 %
Total TNB	101,449.0	35.64 %
ST-Coal	88,911.0	31.23 %
Gas	91,286.0	32.07 %
Total IPP	180,197.0	63.30 %
Co-Gen	2,031.0	0.71 %
Total Co-Gen	2,031.0	0.71 %
Total Generation	283,677.0	99.65 %
PLTG	-293.0	-0.10 %
HVDC	-695.0	-0.24 %
Interconnection	-988.0	-0.35 %
Net Energy	284,665.0	100.00 %

Average SR During Peak Hour

Type	MW
GT	269
Hydro	110
Syncon	371
Thermal	50
Total	800

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																														
YPKA	BLK2	332	286	215	163	163	163	162	162	160	162	162	162	162	164	164	164	163	163	162	162	163	163	164	164	157	157	158	158	154	154	157	157	156	156	152	152	153	153	154															
PLPS	GT11	148	148	148	149	149	149	149	150	113	113	113	111	114	112	114	114	114	143	143	143	141	143	141	141	143	114	66	66	66	66	66	147	144	144	145	147	147	149	149	149														
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	146	147	146	145	139	140	138	138	139	138	138	137	139	146	111	111	111	111	112	147	147	147	149	151	151	151	151	151									
PLPS	ST18	63	65	65	63	62	62	65	65	56	58	58	58	58	56	57	57	56	70	138	146	144	144	143	143	142	143	143	143	143	130	114	114	114	114	143	146	146	146	146	146	146	146	146	146										
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
TJGS	GT1A	227	227	227	227	227	227	227	227	230	230	227	228	228	231	231	158	161	199	231	227	205	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224						
TJGS	GT1B	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	152	152	191	223	223	199	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219				
TJGS	ST1C	255	255	255	255	255	255	255	258	258	258	258	258	258	258	196	196	210	254	258	237	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256					
TJGS	GT2A	221	222	222	225	223	224	220	221	224	224	224	224	224	224	144	145	144	182	223	184	220	217	217	220	220	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219				
TJGS	GT2B	223	225	225	225	223	224	224	224	224	224	224	224	226	226	226	141	143	141	181	224	179	222	218	216	221	223	220	220	220	220	217	217	217	220	220	220	220	220	222	222	220	220	220	220	223	219	222	222	222	222				
TJGS	ST2C	265	265	265	268	265	265	265	265	265	266	266	266	266	266	267	218	218	218	238	266	239	267	264	264	266	266	267	267	264	264	264	264	264	264	264	264	265	265	265	265	268	265	265	265	265	265	265	265	268					
Total CCGT-Gas		7471	7179	6791	6631	6529	6461	5992	6011	5771	5614	5581	5594	5467	5584	5415	4903	4826	5060	5290	5565	5766	6097	6207	6308	6235	6120	6122	6259	6371	6393	6421	6614	6651	6686	6531	6369	6225	6240	6374	7097	7516	7588	7552	7610	7469	7624	7561	7510						
BSIA	HY01	21	21	14	14	14	14	14	14	14	13	13	13	13	14	21	21	22	22	22	21	22	22	22	22	21	21	22	22	22	22	22	22	22	22	22	12	12	12	12	12	12	12	12	12	12	12	12	12	12					
BSIA	HY03	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	7	7	7	6	7	7	6	6	7	7	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			
CEND	HY03	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	6	6	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			
KNRG	HY01	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36			
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	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	HY03	102	80	103	93	103	83	85	60	61	73	67	68	59	67	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LPJA	HY01	19	20	22	22	21	20	20	20	20	22	22	22	22	21	21	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21		
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
PGAU	HY01	-1	-1	80	22	28	-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	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			
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	-1	-1			
SIHY	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	0	0	0	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	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	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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	-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	38	35																																																				

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																											
System Total		12985	12673	12377	12083	12030	11868	11533	11393	11182	11060	11074	11045	10791	10935	10691	10062	10004	10262	10535	10760	11189	11447	11704	11837	11900	11828	11820	11988	12108	12214	12254	12280	12222	12162	11969	11764	11659	11595	11823	12635	13153	13353	13395	13448	13261	13147	13233	12924			
SRev ST-Coal		68	69	66	66	60	55	43	71	65	75	60	63	80	70	73	118	270	269	280	275	63	61	56	62	64	53	61	59	48	62	62	68	68	77	90	56	59	70	48	48	68	48	80	77	54	55	59	61			
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	0
SRev CCGT-Gas		119	331	214	254	296	199	568	309	549	706	739	726	853	756	905	1417	1494	1260	1030	895	774	443	333	232	445	350	348	561	449	427	399	406	369	504	659	931	1145	1130	1356	633	214	142	178	120	261	106	169	220			
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	
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	731	580	580	580	731	731	731	731	731	731	731	731	580	731	474	625	625	625	625	625	625	625	625	625	625	388	388	388	474	474	323	323	238	238	540	540	625	625	726	576	425	640	640	554	554	554	640	640	726	
Hydro		67	92	142	169	192	96	88	123	123	103	113	112	131	246	157	231	78	62	64	64	44	59	53	45	71	69	62	162	153	176	260	285	306	7	136	156	230	151	143	271	102	94	116	119	122	193	145	116			
S.Reserve Total		985	1223	1002	1069	1128	1081	1430	1234	1468	1615	1643	1632	1795	1632	1846	2240	2467	2216	1999	1859	1506	1188	1067	964	968	860	859	1256	1124	988	1044	997	981	1128	1425	1768	2059	2077	2123	1377	1024	924	928	870	991	994	1013	1123			