

Availability At Daily Maximum Demand Hour

ST-Coal	1,320 MW
ST-Gas	70 MW
ST-Oil	0 MW
Gas	3,406 MW
Hydro	1,819 MW
Distillate	300 MW
Total TNB	6,915 MW
Total IPP	8,616 MW
Total Co-Gen	50 MW
System Total	15,581 MW

Set On Bus, TNB, IPP And MD

At Daily Maximum Demand Hour : 15:00	
TNB Generation	6,201 MW
IPP Generation	8,240 MW
Total Set On Bus	15,508 MW
Maximum Demand	14,791 MW
Spinning Reserve	1,017 MW
Net Energy	312,095 MWH
Load Factor	87.9 %
Total Cost	68,118,486 RM
Cost per Unit	23.97 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	12298	11599	11077	10803	10668	10570	10909	11051	11377	12818	13765	14389	14246	14014	14528	14791	14696	14378	13518	13229	14344	14095	13626	13070

Gas Usage

Station	(mmscfd)
CBPS	90
GLGR	65
PAKA	174
PGGS	14
PGPS	10
SRDG	87
TJGS	114
TNB Total	554
KLPP	118
MPSS	58
PDPS	50
PGLA	119
PLPS	114
PTEK	54
SGB3	68
SGRI	157
SKSP	54
YPGS	68
YPKA	110
IPP Total	971
Total Gas	1,526
Total Gas Required :	1,738
Gas Calorific Value :	38,500

Alternate Fuel Usage

Station	(mmscfd)
PGPS	34
PKLG	69
SGB3	38
SGRI	72
Total	212

Generation Mix

Type	MWh	Percentage
ST-Coal	31,571.00	10.12 %
Gas	64,439.00	20.65 %
Hydro	23,590.00	7.56 %
Distillate	4,020.00	1.29 %
Total TNB	123,620.0	39.61 %
ST-Coal	39,801.0	12.75 %
ST-Oil	6,762.0	2.17 %
Gas	124,175.0	39.79 %
Distillate	13,752.0	4.41 %
Total IPP	184,490.0	59.11 %
Co-Gen	1,421.0	0.46 %
Total Co-Gen	1,421.0	0.46 %
Total Generation	309,531.0	99.18 %
PLTG	-199.0	-0.06 %
HVDC	-2,365.0	-0.76 %
Interconnection	-2,564.0	-0.82 %
Net Energy	312,095.0	100.00 %

Average SR During Peak Hour

Type	MW
GT	587
Hydro	259
Syncon	57
Thermal	10
Total	912

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
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	56	-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	105	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	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
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	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	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	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
TMGR	HY03	72	-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	68	33	31	32	32	37	32	37	36	38	33	44	41	38	38	37	34	70	33	42	74	78	78	77
UPIA	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
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		991	534	529	534	530	546	532	547	546	553	507	600	672	636	570	547	480	599	477	548	1097	1249	1361	1412
PGPS	GT3A	81	0	0	0	0	0	0	0	0	0	0	0	0	40	83	83	90	93	87	90	90	90	91	90
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	86	85	86	86	86	87	87	87	88	88	87
SGB3	GT33	133	133	134	134	134	134	134	133	133	133	135	135	135	135	134	134	134	133	133	131	130	130	130	130
SGRI	GT13	128	128	128	128	129	129	129	129	129	129	130	130	131	131	131	130	130	129	129	127	127	127	126	126
SGRI	GT21	123	123	123	123	124	124	124	124	124	125	125	125	125	125	124	124	124	122	122	121	121	120	120	120
Total Distillate		465	384	385	385	387	387	386	386	386	390	390	391	391	431	474	473	480	659	647	653	653	648	650	646
PCUF	CUFG	36	38	36	37	38	37	36	21	23	23	23	23	23	23	23	23	21	21	20	22	20	30	36	43
PCUF	CUFK	35	35	36	35	34	39	35	34	35	34	36	36	35	35	35	35	35	35	35	36	35	36	35	36
Total Co-Gen		71	73	72	72	72	76	71	55	58	57	59	58	57	58	58	58	56	56	55	57	56	65	72	78
Total Gen		12252	11758	11505	11269	11033	11044	10815	10713	10630	10557	10460	10685	10907	11146	11052	11122	11357	12212	12758	13216	13800	13959	14137	14217
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		-29	-29	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-296	-293	-292	-292	-197	-198	-195	-242
TIE-PLTG		-17	-40	-65	-51	-15	-61	41	-3	-9	-25	-81	-33	27	-53	30	-78	9	-18	-31	-67	65	69	41	-1
Interconnection		-46	-69	-95	-80	-44	-90	12	-32	-38	-54	-110	-62	-2	-82	1	-107	-20	-47	-60	-97	35	-227	-252	-293
System Total		12298	11827	11600	11349	11077	11134	10803	10745	10668	10611	10570	10747	10909	11228	11051	11229	11377	12259	12818	13313	13765	14126	14389	14510
SRev ST-Coal		8	9	4	10	11	5	15	8	15	16	-9	-1	9	1	13	9	6	17	8	9	8	11	6	4
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
SRev ST-Oil		7	6	4	5	5	4	5	5	6	3	4	4	3	4	4	4	2	3	3	3	3	3	3	3
SRev CCGT-Gas		491	299	554	788	1021	1037	1236	1344	1420	1501	1578	1441	1196	930	947	897	708	255	528	210	348	321	258	244
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	284	133	42	195	280	324	315	324	338	329
SRev Distillate		55	36	35	35	33	33	33	33	34	34	34	30	29	29	89	46	47	40	61	73	67	67	72	70
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
Syncon		237	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625
Hydro		305	95	100	95	99	83	97	82	83	76	122	180	108	144	210	82	149	180	302	231	392	290	303	252
S.Reserve Total		1103	1070	1322	1558	1794	1787	2011	2097	2183	2255	2354	2128	1820	1582	1677	1706	1536	1411	1639	1181	1019	972	961	890