

Availability At Daily Maximum Demand Hour

ST-Coal	2,070	MW
ST-Gas	0	MW
ST-Oil	0	MW
Gas	4,204	MW
Hydro	1,648	MW
Distillate	0	MW
Total TNB	7,922	MW
Total IPP	9,144	MW
Total Co-Gen	95	MW
System Total	17,161	MW

Set On Bus, TNB, IPP And MD

At Daily Maximum Demand Hour : 16:30

TNB Generation	7,172	MW
IPP Generation	8,654	MW
Total Set On Bus	16,964	MW
Maximum Demand	15,927	MW
Spinning Reserve	1,043	MW
Net Energy	330,953	MWH
Load Factor	86.6	%
Total Cost	67,232,487	RM
Cost per Unit	21.08	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	13464	12735	12138	11920	11336	11354	11613	11544	11756	13528	14333	14982	15138	14725	15262	15708	15821	15532	14275	13971	15244	15109	14757	14205

Gas Usage

Station	(mmscfd)
CBPS	109
GLGR	22
PAKA	194
PGGS	12
PGPS	44
SRDG	50
TJGS	223
TNB Total	655
KLPP	69
MPSS	63
PDPS	56
PGLA	108
PLPS	107
PTEK	65
SGB3	63
SGRI	196
SKSP	55
YPKA	130
IPP Total	910
Total Gas	1,565

Total Gas Required : 1,682
Gas Calorific Value : 38.500

Alternate Fuel Usage

Station	(mmscfd)
PKLG	117
Total	117

Generation Mix

Type	MWh	Percentage
ST-Coal	47,149.00	14.25 %
Gas	81,803.00	24.72 %
Hydro	11,788.00	3.56 %
Total TNB	140,740.0	42.53 %
ST-Coal	62,443.0	18.87 %
ST-Oil	11,398.0	3.44 %
Gas	113,464.0	34.28 %
Total IPP	187,305.0	56.60 %
Co-Gen	2,222.0	0.67 %
Total Co-Gen	2,222.0	0.67 %
Total Generation	330,267.0	99.79 %
PLTG	10.0	0.00 %
HVDC	-696.0	-0.21 %
Interconnection	-686.0	-0.21 %
Net Energy	330,953.0	100.00 %

Average SR During Peak Hour

Type	MW
GT	476
Hydro	184
Syncon	353
Thermal	88
Total	1100

Weather Temperature

	Weather	Temperature
Morning	Sunny	27
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	
SGRI	GT21	109	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGRI	GT22	112	111	111	111	111	111	62	62	62	61	61	60	60	61	133	138	138	135	135	135	135	133	133	133	
SGRI	GT23	109	107	107	105	105	105	58	58	58	58	56	56	55	55	55	94	132	129	129	129	129	129	130	130	
SGRI	ST24	194	199	154	131	132	132	94	91	91	92	94	96	95	99	101	124	150	154	156	154	152	152	150	143	
YPKA	BLK1	342	376	376	374	374	374	376	376	378	378	376	376	375	375	376	376	375	375	372	372	372	372	368	368	
YPKA	BLK2	352	386	386	383	383	383	385	385	386	386	385	385	384	384	385	385	384	384	381	381	381	381	376	376	
PLPS	GT11	150	130	142	146	147	142	146	135	122	134	109	117	124	132	111	109	118	110	113	139	113	141	114	142	
PLPS	GT12	150	135	147	150	151	149	151	142	131	142	115	125	131	138	120	112	126	109	150	147	148	145	143	141	
PLPS	GT13	148	138	138	26	0	0	0	0	0	0	0	0	0	0	0	61	149	108	136	109	136	111	138	141	
PLPS	ST18	217	211	216	194	149	146	146	145	139	141	134	137	137	143	147	158	147	196	205	217	205	215	208	214	
SKSP	BLK1	342	277	347	341	250	282	257	214	213	212	216	237	256	254	218	215	281	330	324	343	320	342	338	333	
TJGS	GT1A	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	
TJGS	GT1B	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	
TJGS	ST1C	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	
TJGS	GT2A	222	219	221	221	221	221	221	221	221	221	219	219	219	219	219	219	219	219	219	219	219	219	219	219	
TJGS	GT2B	220	220	220	222	222	222	222	222	222	222	219	221	221	221	221	221	221	221	221	221	221	221	221	221	
TJGS	ST2C	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	
Total CCGT-Gas		7999	7538	7362	7174	6934	6874	6635	6411	6132	6228	6082	6173	6265	6288	6282	6155	6625	7259	7370	7528	7515	7670	7609	7620	
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	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	
CBPS	GT05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87	119	116	118	116	117	117	116	118	116
CBPS	GT06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123	120	120	118	119	118	118	118
PDPS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	107	107	107	107	105	95	75	75	101
PDPS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108	106	104	91	71	74	100	101
PDPS	GT03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	107	107	105	105	105	105	107
PDPS	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	106	106	105	96	71	72	101
PGGS	GT6A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGGS	GT6B	0	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	67	107	105	104	102	102	101	101	98	99
PTEK	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	107	106	105	103	104	102	102
PTEK	GT2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	108	107	106	106	104	104	104
PTEK	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	105	106	104	105	105	104	103
SRDG	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104	101	99	99	97	96	96	96	96	96
SRDG	GT03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123	128	124	125	124	123	123	123	123	123
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105	105	104	105	105	105	105	105
Total OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	451	562	986	1239	1307	1410	1373	1548	1722	1802
BSIA	HY01	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
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	0
BSIA	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
CEND	HY01	9	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	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
KNRG	HY01	22	23	25	25	24	23	24	23	23	22	25	24	26	26	24	24	24	23	28	23	25	24	25	25	23
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	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	0
KNYR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	99	99	99	99	99	99	99	99	99
KNYR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	101	98	108	98	104	100	102	99	98	101
KNYR	HY03	59	60	84	98	61	60	61	69	65	70	71	61	61	101	101	101	101	101	101	101	101	101	101	101	101
LPIA	HY01	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

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	HY01	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	111	110	109	110	84	88	110	117	110	111	111	111	-1	-1	-1	-1	-1	111	111	110	-1	-1	-1	-1	-1									
PGAU	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				
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	111	111	109	111	-1	-1	110	117	80	81	81	111	-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	111	111	109	111	-1	-1	110	117	80	81	81	111	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
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		
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		
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		
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		
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		
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	79	-1	-1	-1	-1	67	61	61	59	33	27	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
TMGR	HY02	26	34	38	38	36	31	34	32	27	38	37	41	40	31	32	34	36	32	86	31	40	33	83	58	79	58	67	84	84	75	63	63	59	61	25	29	31	34	39	31	28	25	28	25	85	29	37			
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	81	58	79	-1	-1	79	80	77	59	58	60	62	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
TMGR	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		
UPLA	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			
Total Hydro		155	166	196	210	170	163	187	165	159	159	181	175	186	221	165	188	170	462	451	527	538	534	746	946	892	1114	686	886	1119	1353	1326	1233	1174	1112	738	274	222	228	254	336	616	590	581	540	234	405	214	251		
PCUF	CUFG	52	55	54	52	52	55	52	51	52	53	53	51	55	53	50	53	52	51	54	52	53	54	49	51	53	53	53	55	53	52	52	51	54	55	52	56	51	52	52	52	54	54	51	54	53	51	53			
PCUF	CUFK	41	39	39	40	40	40	40	40	39	40	40	42	39	39	42	39	41	39	40	39	41	40	40	40	40	40	40	40	40	40	41	38	40	41	40	41	41	39	40	41	40	41	40	41	40	41	38			
Total Co-Gen		93	94	93	92	92	95	92	91	91	93	93	91	97	92	89	95	91	92	93	92	93	90	91	94	93	93	95	93	92	91	91	95	93	92	97	91	93	93	91	94	95	91	95	93	91	95	91	91		
Total Gen		13474	13015	12703	12432	12142	12082	11857	11617	11326	11441	11327	11387	11515	11544	11496	11389	11838	12848	13557	13933	14354	14764	14979	15305	15141	14961	14696	14981	15205	15660	15691	15790	15751	15921	15537	14970	14240	13872	13918	14690	15223	15137	15080	15109	14750	14499	14229	13966		
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		
TIE-HVDC		-28	-28	-28	-29	-29	-31	-31	-28	-28	-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		38	29	-4	0	33	-7	-32	-3	18	-23	2	3	-69	9	-20	-24	111	24	58	-50	50	-3	26	-21	31	22	0	-24	-28	-38	12	-3	-41	23	34	39	-4	-33	-24	-99	8	-4	1	31	23	-56	52	-47		
Interconnection		10	1	-32	-29	4	-38	-63	-31	-10	-52	-27	-26	-98	-19	-48	-53	82	-5	29	-79	21	-32	-3	-49	3	-7	-29	-53	-57	-67	-17	-32	-70	-6	5	8	-35	-62	-53	-128	-21	-34	-29	1	-7	-84	24	-76		
System Total		13464	13014	12735	12461	12138	12120	11920	11648	11336	11493	11354	11413	11613	11563	11544	11442	11756	12853	13528	14012	14333	14796	14982	15354	15138	14968	14725	15034	15262	15727	15708	15822	15821	15927	15532	14962	14275	13934	13971	14818	15244	15171	15109	15108	14757	14583	14205	14042		
SRev	ST-Coal	66	73	67	66	76	73	79	72	78	61	51	74	55	79	62	70	69	57	73	73	76	70	70	59	88	79	60	69	85	89	83	86	84	87	103	65	62	62	71	66	76	74	96	65	80	56	66	60		
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	ST-Oil	9	12	81	74	74	74	74	75	75	74	74	75	74	75	75	75	75	79	37	5	3	4	5	5	5	4	4	4	6	8	8	6	7	8	8	7	7	7	8	7	7	6	6	8	8	11	9	9		
SRev	CCGT-Gas	351	482	418	426	426	486	725	949	1228	1132	1278	1187	1095	1072	1078	1205	875	381	380	245	310	300	361	350	394	494	523	509	561	480	469	341	365	443	490	511	901	1120	1032	673	363	364	305	189	216	182	200	159		
SRev	OCGT-Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	6	18	103	35	52	89	236	164	84	95	87	175	109	86	116	141	171	597	644	552	177	176	187	222	174	159	106	157	254		
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		730	730	730	730	730	579	730	730	730	730	730	579	730	579	730	625	625	625	475	625	323	237	237	0	474	474	237	86	0	0	0	151	453	644	730	730	730	625	474	474	474	474	730	474	730	730				
Hydro		131	120	90	76	116	125	250	121	127	127	105	111	100	216	121	250	118	84	95	18	256	110	200	106	160	175	129	185	190	183	295	368	427	238	180	152	118	112	106	129	120	146	155	156	106	191	126	89		
S.Reserve Total		1287	1417	1386	1372	1422	1486	1707	1947	2238	2124	2238	2177	2054	2021	2066	2179	1867	1226	1327	972	1138	1212	994	809	973	988	1354	1325	1174	933	1030	910	969	1043	1375	1550	2415	2675	2499	1677	1216	1251	1258	1066	1299	1020	1288	1301		