

Availability At Daily Maximum Demand Hour

ST-Coal	2,070 MW
ST-Gas	0 MW
ST-Oil	140 MW
Gas	3,071 MW
Hydro	1,858 MW
Distillate	0 MW
Total TNB	7,139 MW
Total IPP	10,539 MW
Total Co-Gen	38 MW
System Total	17,716 MW

Set On Bus, TNB, IPP And MD

At Daily Maximum Demand Hour : 20:30	
TNB Generation	4,582 MW
IPP Generation	9,052 MW
Total Set On Bus	14,537 MW
Maximum Demand	13,727 MW
Spinning Reserve	865 MW
Net Energy	300,834 MWH
Load Factor	91.3 %

Maximum Demand Record

Date :	19/03/2013	16,133.0 MW
Date :	20/03/2013	333,019.0 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	13004	12409	11944	11558	11349	11039	11038	10829	10663	11961	12895	13553	13488	13094	13458	13503	13383	13140	12517	12617	13612	13471	13258	12943

Gas Usage

Station	(mmscfd)
CBPS	57
GLGR	56
PAKA	47
PGPS	39
SRDG	19
TJGS	5
TNB Total	222
KLPP	101
MPSS	54
PGLA	104
PLPS	104
SGRI	200
SKSP	54
YPGS	34
YPKA	131
IPP Total	783
Total Gas	1,005

Total Gas Required : 1,093
Gas Calorific Value : 38,500

Alternate Fuel Usage

Station	(mmscfd)
PGPS	14
PKLG	74
Total	88

Generation Mix

Type	MWh	Percentage
ST-Coal	49,554.00	16.47 %
ST-Oil	1,327.00	0.44 %
Gas	26,038.00	8.66 %
Hydro	16,888.00	5.61 %
Total TNB	93,807.0	31.18 %
ST-Coal	95,074.0	31.60 %
ST-Gas	407.0	0.14 %
ST-Oil	7,213.0	2.40 %
Gas	102,245.0	33.99 %
Total IPP	204,939.0	68.12 %
Co-Gen	1,018.0	0.34 %
Total Co-Gen	1,018.0	0.34 %
Total Generation	299,764.0	99.64 %
PLTG	-367.0	-0.12 %
HVDC	-703.0	-0.23 %
Interconnection	-1,070.0	-0.36 %
Net Energy	300,834.0	100.00 %

Average SR During Peak Hour

Type	MW
GT	297
Hydro	193
Syncon	373
Thermal	3
Total	866

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	
YPGS	ST10	69	69	69	69	69	69	69	69	68	68	68	68	68	68	68	68	68	68	68	68	69	69	69	69	69
YPKA	BLK1	366	367	367	368	368	367	367	368	368	368	366	366	366	364	364	361	356	356	356	355	358	358	358	359	359
YPKA	BLK2	374	373	373	372	372	372	373	373	374	374	373	370	370	368	368	365	365	361	361	361	359	359	360	360	361
PLPS	GT11	65	66	66	65	65	66	65	65	66	65	66	65	106	105	139	137	141	139	139	138	138	139	137	138	
PLPS	GT12	69	69	68	70	70	68	69	67	69	69	69	69	69	109	109	145	143	142	141	141	139	140	140	140	
PLPS	GT13	111	65	64	65	65	63	65	64	64	64	63	64	63	63	111	110	141	142	141	140	140	140	140	140	
PLPS	ST18	166	148	146	146	146	146	146	147	146	145	145	146	145	147	146	191	194	212	213	212	214	214	214	214	
SKSP	BLK1	325	216	334	332	309	294	214	213	212	212	214	213	213	214	213	210	212	300	336	332	337	328	329	329	
TJGS	GT1A	212	213	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TJGS	GT1B	200	200	203	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TJGS	ST1C	245	217	111	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total CCGT-Gas		5935	5351	5122	4889	4659	4482	4375	4331	4243	4046	3972	3972	3972	3976	3955	3976	3978	4459	4990	5348	5746	5849	5892	5861	
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	25	124	124	126	126	127	128	
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	127	126	126	127	127	125	126	128	131	128	129	61	
Total CCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	127	126	126	127	152	249	250	258	355	353	355	288	
BSIA	HY01	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	12	11	12	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	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
KNRG	HY01	21	22	24	23	21	18	17	20	17	24	23	21	25	26	22	21	22	24	25	25	28	25	24	21	
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	104	104	105	105	105	99	81	81	82	82	81	81	103	103	81	80	83	101	102	103	102	103	102	101	
KNYR	HY02	99	99	100	100	100	101	100	101	101	101	101	100	102	102	100	58	59	100	101	100	102	101	102	101	
KNYR	HY03	103	103	104	104	104	103	103	104	103	104	104	103	105	105	103	59	59	101	101	101	103	102	102	102	
KNYR	HY04	102	104	106	105	105	104	103	105	103	69	65	58	104	99	58	56	61	101	101	103	107	104	106	104	
LP1A	HY01	18	18	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	16	14	14	14	10		
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	7	7	7	7	7	7	7	7	
PGAU	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	88	130	80	0	0	80	
PGAU	HY02	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY03	-1	24	-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	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	29	-1	-1	-1	74	-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	50	50	50	50	50	49	50	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	-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	23	37	54	55	56	53	24	30	24	27	27	23	63	63	24	19	22	60	36	35	44	37	84	84	
TMGR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	80	80	80	71	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	
Total Hydro		505	547	568	566	543	530	480	493	482	459	453	438	554	575	440	345	358	539	519	619	674	957	1099	1257	
PCUF	CUEG	11	10	10	10	10	10	11	9	9	10	9	11	9	10	9	9	11	11	10	11	8	8	7	1	
PCUF	CUEK	33	35	34	35	33	34	34	36	35	35	33	34	35	36	36	37	38	37	36	34	33	32	27	29	

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																									
Total Co-Gen	44	45	44	45	43	44	45	45	44	45	42	45	44	46	45	46	49	48	46	45	41	40	34	30	29	29	30	29	28	29	29	27	29	30	29	30	30	31	30	35	35	38	38	36	37	35	30	30	
Total Gen	13078	12556	12338	12105	11843	11664	11504	11466	11370	11164	11074	10916	10992	11041	10859	10680	10576	11386	11920	12417	12861	13244	13437	13675	13507	13320	13140	13231	13428	13511	13568	13455	13361	13398	13134	12722	12531	12439	12689	13270	13554	13672	13455	13361	13166	13135	12895	12888	
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
TIE-HVDC	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-30	-30	-30	-28	-28	-30	-30	-30	-30	-29	-29	-30	-30	-30	-29	-29	-29	-29	-30	-30	-30	-30	-29	-29	-29	-29	-30	-30	-29	-29	-28	-28	-29	-29
TIE-PLTG	103	-80	-42	-52	-72	-27	-25	1	50	-22	64	6	-16	-77	59	-6	-58	-33	-11	-13	-4	-49	-88	78	49	42	76	-101	-1	-70	95	-21	8	40	23	-18	43	-21	102	-55	-28	-25	13	-40	-64	-26	-19	-35	
Interconnection	74	-109	-71	-81	-101	-56	-54	-28	21	-51	35	-23	-46	-107	30	-35	-87	-62	-41	-43	-34	-79	-116	50	19	12	46	-131	-30	-99	65	-51	-22	10	-6	-47	14	-50	72	-85	-58	-55	-16	-69	-92	-54	-48	-64	
System Total	13004	12665	12409	12186	11944	11720	11558	11494	11349	11215	11039	10939	11038	11148	10829	10715	10663	11448	11961	12460	12895	13323	13553	13625	13488	13308	13094	13362	13458	13610	13503	13506	13383	13388	13140	12769	12517	12489	12617	13355	13612	13727	13471	13430	13258	13189	12943	12952	
SRev ST-Coal	15	-3	7	5	12	-1	5	12	8	-4	3	92	118	97	122	135	212	21	11	1	15	17	3	14	-4	5	8	3	8	-4	-5	4	13	6	14	3	19	6	14	14	-3	-1	9	11	9	5	-1	3	
SRev ST-Oil	1	0	-1	0	0	3	1	1	1	0	0	30	32	32	32	47	48	48	48	4	-5	-5	-5	-4	-4	-5	-5	-5	-5	-5	-5	-5	-4	-4	-5	-5	-4	-4	-4	-4	-4	-4	-3	-2	-3	-6	-6	-6	-6
SRev CCGT-Gas	989	1369	1280	1513	1273	1450	1557	1601	1689	1886	1960	1960	1956	1977	1956	1954	1473	942	684	286	301	258	289	291	307	286	315	353	323	319	314	368	334	303	380	541	665	450	311	362	281	341	280	288	247	339	295		
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
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	625	474	474	474	625	625	625	625	625	625	625	625	625	474	625	625	625	625	625	474	474	474	323	474	474	625	625	474	474	474	474	324	324	625	625	625	625	625	625	474	323	323	323	474	474	474	625	625	
Hydro	129	238	217	219	91	104	154	141	152	175	181	196	80	210	194	289	276	95	115	115	211	263	181	174	205	218	117	176	268	229	185	254	285	291	159	119	133	114	170	219	262	251	365	173	270	194	192	139	
S.Reserve Total	1844	2163	2062	2296	2086	2266	2427	2465	2560	2767	2854	2988	2900	2854	3035	3157	3200	2347	1826	1514	1066	1050	911	858	1025	1062	1032	1221	1109	1026	969	1046	991	954	1168	1120	1312	1405	1253	1014	980	865	1082	969	1035	909	1149	1056	