

Availability At Daily Maximum Demand Hour

ST-Coal	2,070 MW
ST-Gas	0 MW
ST-Oil	145 MW
Gas	4,246 MW
Hydro	1,780 MW
Distillate	0 MW
Total TNB	8,241 MW
Total IPP	11,100 MW
Total Co-Gen	75 MW
System Total	19,416 MW

Set On Bus, TNB, IPP And MD

At Daily Maximum Demand Hour : 14:30	
TNB Generation	6,245 MW
IPP Generation	9,065 MW
Total Set On Bus	16,179 MW
Maximum Demand	15,410 MW
Spinning Reserve	794 MW
Net Energy	320,363 MWH
Load Factor	86.6 %

Maximum Demand Record

Date :	20/06/2012	15,826.0 MW
Date :	20/06/2012	328,716.0 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	12848	12297	11763	11182	10966	10834	11119	11252	11726	13322	14260	15003	14881	14635	15141	15313	15174	14886	13821	13741	14498	14170	13634	13290

Gas Usage

Station	(mmscfd)
CBPS	48
GLGR	58
PAKA	90
PGPS	35
SRDG	11
TJGS	212
TNB Total	453

Alternate Fuel Usage

Station	(mmscfd)
PKLG	59
Total	59

Generation Mix

Type	MWh	Percentage
ST-Coal	49,450.00	15.44 %
Gas	59,899.00	18.70 %
Hydro	13,355.00	4.17 %
Total TNB	122,704.0	38.30 %
ST-Coal	95,095.0	29.68 %
ST-Oil	5,788.0	1.81 %
Gas	93,922.0	29.32 %
Total IPP	194,805.0	60.81 %
Co-Gen	2,069.0	0.65 %
Total Co-Gen	2,069.0	0.65 %
Total Generation	319,578.0	99.75 %
PLTG	-85.0	-0.03 %
HVDC	-700.0	-0.22 %
Interconnection	-785.0	-0.25 %
Net Energy	320,363.0	100.00 %

Average SR During Peak Hour

Type	MW
GT	236
Hydro	217
Syncon	420
Thermal	16
Total	889

KLPP	93
MPSS	57
PGLA	79
PLPS	119
SGB3	59
SGRI	74
SKSP	38
YPGS	69
YPKA	129
IPP Total	719
Total Gas	1,172

Total Gas Required : 1,231
Gas Calorific Value : 38,500

Weather
Temperature

Morning	Sunny	26
Afternoon	Hot	31

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	364	363	363	363	362	364	364	362	362	362	362	362	362	361	361	348	348	349	349	347	347	352	352	349	349	349	349	349	349	345	352	352	356	356	354	354	358	358	352	352									
PLPS	GT11	137	138	139	141	141	140	140	141	105	95	66	65	65	143	142	143	144	143	144	143	142	141	141	141	140	139	139	140	139	139	129	103	124	138	136	137	138	139	139	140	139	139							
PLPS	GT12	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127								
PLPS	GT13	144	142	143	143	145	145	144	107	107	107	108	106	107	107	107	146	144	147	147	147	147	147	147	147	146	146	146	144	144	144	144	140	108	117	145	143	144	144	144	144	146	146	145						
PLPS	ST18	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212						
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						
TJGS	GT1A	221	221	221	221	195	195	133	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123						
TJGS	GT1B	219	219	219	219	188	188	127	115	115	115	115	115	115	115	115	194	194	223	223	223	223	223	223	219	219	219	216	216	216	216	216	216	216	216	216	216	216	216	216	216	216	216	216	219					
TJGS	ST1C	255	255	255	255	226	226	208	169	169	169	169	169	169	169	169	166	166	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255					
TJGS	GT2A	221	214	220	188	221	220	190	202	192	222	183	220	190	209	188	218	190	224	192	221	200	222	223	220	220	219	218	218	218	217	217	217	189	184	216	216	216	216	216	216	216	216	216	216	216				
TJGS	GT2B	216	209	219	183	218	214	186	196	188	217	179	216	185	204	184	215	186	219	185	217	196	219	218	215	217	217	216	216	215	214	214	215	213	213	213	213	213	213	213	213	213	213	213	213	213				
TJGS	ST2C	261	243	262	240	261	261	239	242	241	259	250	263	239	260	239	259	245	259	241	261	248	262	261	261	259	263	262	260	262	262	262	261	261	261	261	261	261	261	261	261	261	261	261	261	261				
Total OCGT-Gas		6057	5699	5247	5212	4962	4858	4645	4602	4518	4581	4491	4562	4637	4897	4895	4692	5106	6022	6644	7147	7274	7514	7529	7536	7556	7497	7481	7538	7535	7544	7514	7523	7519	7523	7499	7430	6955	6671	6880	7128	7118	7027	7003	7042	6746	6576	6372	6100	
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	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	0	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	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 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
BSIA	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	
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	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	11	12	12	9	11	11	9	10	10	10	10	10	10	10	10	11	10	12	10	12	22	22	22	12	14	13	23	22	22	23	22	23	22	22	22	22	22	22	22	12	12	11	10	9	11	11	11	10	11
CEND	HY01	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		
CEND	HY02	8	8	8	7	8	7	8	7	8	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
CEND	HY03	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	HY02	33	33	33	32	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
KNYR	HY01	95	96	95	92	96	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	96	80	83	65	-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		
KNYR	HY03	95	95	95	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	HY04	94	86	95	53	96	97	52	75	58	96	56	98	55	68	51	59	58	76	55	98	57	96	63	62	74	70	95	84	95	95	55	95	62	95	68	67	64	56	97	95	95	94	56	61	70	89	75	61	
LPIA	HY01	21	21	21	21	21	8	9	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
MNOR	HY01	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	3	3	3	3	3	3	3	3	3	3	
PGAU	HY01	20	-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	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	-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		
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	0	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	0	0	0																																														

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	84	86	88	84	86	84	83	85	83	84	86	84	83	87	85	85	85	85	84	83	80	78	75	75	74	73	75	74	75	73	74	75	71	72	74	75	76	73	77	79	78	82	81	84	84	83	86			
Total Gen	12802	12423	12059	11864	11581	11518	11175	11205	11025	10924	10820	10939	11150	11446	11408	11215	11711	12646	13274	13812	14214	14532	14956	14976	14919	14585	14590	14892	15070	15385	15266	15343	15211	15219	14868	14380	13813	13515	13674	14337	14434	14412	14143	14055	13645	13482	13271	12909		
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			
TIE-HVDC	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-30	-30	-29	-29	-28	-28	-30	-30	-30	-30	-30	-30	-28	-28	-29	-29	-29	-29	-29	-29	-29				
TIE-PLTG	-16	70	-201	111	-153	-27	22	15	88	-35	15	-80	60	45	185	-14	15	-30	-19	-83	-17	-64	-18	50	68	34	-16	33	-42	5	-17	15	66	-62	10	-3	22	35	-37	-112	-34	-9	1	-13	40	-10	10	-27		
Interconnection	-46	41	-230	82	-182	-56	-7	-14	59	-64	-14	-109	31	16	156	-43	-15	-59	-48	-112	-46	-95	-47	20	38	5	-45	4	-71	-25	-47	-14	37	-90	-18	-33	-8	5	-67	-142	-64	-37	-27	-42	11	-39	-19	-56		
System Total	12848	12382	12289	11782	11763	11574	11182	11219	10966	10988	10834	11048	11119	11430	11252	11258	11726	12705	13322	13924	14260	14625	15003	14956	14881	14580	14635	14888	15141	15410	15313	15357	15174	15309	14886	14413	13821	13510	13741	14479	14498	14449	14170	14097	13634	13521	13290	12965		
SRev ST-Coal	22	28	9	24	5	15	17	22	41	198	175	164	11	11	20	56	16	20	11	8	18	0	18	21	17	10	6	13	13	27	2	62	12	12	14	11	6	15	11	6	25	9	19	7	48	50	65	57		
SRev ST-Oil	29	28	28	29	29	28	29	4	25	28	28	29	29	28	29	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
SRev CCGT-Gas	368	536	748	653	903	1007	1220	1263	1347	1284	1374	1503	1228	968	970	1523	1389	1103	611	238	411	171	201	214	194	253	269	212	215	206	216	267	241	237	231	300	775	819	480	232	242	198	222	183	479	219	203	475		
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	11	79	11	20	43	60	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	474	625	625	625	726	726	726	726	726	575	726	726	726	726	726	726	575	726	625	625	453	302	453	539	539	539	453	302	302	453	453	453	539	539	625	474	575	474	539	453	453	539	539	625	474	625				
Hydro	219	107	94	223	76	72	154	110	118	79	253	63	125	108	134	115	117	95	249	65	181	108	230	362	292	380	312	197	129	210	354	144	314	183	321	295	207	364	213	208	265	297	351	303	228	89	231	181		
S.Reserve Total	1112	1324	1504	1560	1745	1854	2152	2131	2263	2321	2411	2291	2125	1848	1884	2455	2255	1950	1452	1043	1241	910	908	943	1000	1226	1170	1005	848	794	953	937	1040	928	1165	1145	1613	1672	1279	920	1071	957	1045	1032	1294	983	973	1338		