

**Availability At Daily Maximum Demand Hour**

ST-Coal	1,380 MW
ST-Gas	0 MW
ST-Oil	145 MW
Gas	3,481 MW
Hydro	1,580 MW
Distillate	0 MW
<b>Total TNB</b>	<b>6,586 MW</b>
<b>Total IPP</b>	<b>11,289 MW</b>
<b>Total Co-Gen</b>	<b>82 MW</b>
<b>System Total</b>	<b>17,957 MW</b>

**Set On Bus, TNB, IPP And MD**

At Daily Maximum Demand Hour : 20:00	
TNB Generation	4,001 MW
IPP Generation	9,253 MW
Total Set On Bus	14,348 MW
Maximum Demand	13,298 MW
Spinning Reserve	1,012 MW
Net Energy	289,058 MWH
Load Factor	90.6 %

**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	12439	11948	11445	11100	10608	10459	10514	10550	10482	11604	12422	13040	12930	12654	12864	12794	12845	12423	12174	12324	13298	13038	12726	12602

**Gas Usage**

Station	(mmscfd)
CBPS	57
GLGR	57
PAKA	31
PGPS	40
SRDG	1
TJGS	117
<b>TNB Total</b>	<b>303</b>

**Alternate Fuel Usage**

Station	(mmscfd)
PKLG	77
<b>Total</b>	<b>77</b>

**Generation Mix**

Type	MWh	Percentage
ST-Coal	31,926.00	11.04 %
Gas	39,027.00	13.50 %
Hydro	11,858.00	4.10 %
<b>Total TNB</b>	<b>82,811.0</b>	<b>28.65 %</b>
ST-Coal	95,888.0	33.17 %
ST-Oil	7,575.0	2.62 %
Gas	101,679.0	35.18 %
<b>Total IPP</b>	<b>205,142.0</b>	<b>70.97 %</b>
Co-Gen	2,120.0	0.73 %
<b>Total Co-Gen</b>	<b>2,120.0</b>	<b>0.73 %</b>
<b>Total Generation</b>	<b>290,073.0</b>	<b>100.35 %</b>
PLTG	286.0	0.10 %
HVDC	729.0	0.25 %
<b>Interconnection</b>	<b>1,015.0</b>	<b>0.35 %</b>
<b>Net Energy</b>	<b>289,058.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	324
Hydro	127
Syncon	466
Thermal	4
<b>Total</b>	<b>921</b>

KLPP	102
MPSS	55
PGLA	108
PLPS	119
SGB3	56
SGRI	122
SKSP	53
YPGS	34
YPKA	129
<b>IPP Total</b>	<b>777</b>
<b>Total Gas</b>	<b>1,080</b>

Total Gas Required : 1,157  
Gas Calorific Value : 38,500

**Weather Temperature**

Weather	Temperature
Morning	Cloudy 24
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																											
PKLG	U003	289	285	284	284	285	285	283	287	290	288	288	286	286	285	286	286	286	286	286	287	284	285	284	289	288	284	284	286	285	285	284																				
PKLG	U004	273	274	274	273	274	172	141	85	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																				
PKLG	U005	466	463	463	460	463	461	462	462	463	461	464	463	457	461	464	465	462	462	462	460	463	464	461	463	461	460	464	462	461	460	463	464	464																		
PKLG	U006	452	452	452	455	451	451	452	453	453	453	453	452	451	451	454	454	454	452	452	455	455	453	454	451	453	453	452	452	449	453	455	452	455	452	453	453	452														
JMUG	U002	688	693	690	692	687	689	688	694	685	690	689	693	690	689	691	690	690	688	691	695	688	686	691	689	692	687	690	688	691	691	687	692	694	692	689	693	691	690	697	686	690	689	692	688	693	692	692	688			
JMUG	U003	432	435	469	488	489	490	532	572	577	583	580	578	579	581	582	581	632	693	690	689	690	692	689	692	692	699	686	691	694	689	693	690	691	696	692	692	694	689	688	691	692	692	691	691	691	692	688				
TBIN	U001	694	691	697	695	694	692	694	693	695	691	692	694	670	692	688	688	693	694	694	693	694	693	694	692	694	696	697	695	694	695	692	694	693	691	694	692	695	696	695	693	695	693	691	694	693	691	692	692			
TBIN	U002	696	694	696	698	697	696	695	697	698	697	695	697	673	692	692	690	694	696	698	696	698	698	700	695	696	696	697	698	698	700	695	696	697	697	694	693	703	695	695	698	693	695	693	691	692	692	696	693			
TBIN	U003	698	694	693	694	698	695	698	698	694	696	696	693	674	691	690	693	694	698	699	692	696	696	697	698	699	694	695	701	700	694	698	695	698	696	697	691	695	699	698	691	695	696	696	692	696	697	695	695			
JMAH	U002	698	700	699	700	702	707	697	702	701	696	697	700	706	701	697	696	706	702	700	700	699	703	700	693	701	700	699	701	705	696	704	703	702	701	702	697	699	705	699	703	700	700	703	697	701	701	702	702			
Total ST-Coal		5386	5381	5417	5439	5440	5338	5342	5339	5278	5257	5254	5258	5186	5244	5249	5248	5313	5369	5372	5368	5369	5375	5366	5363	5377	5361	5377	5374	5379	5370	5369	5375	5369	5374	5372	5356	5374	5371	5373	5359	5370	5370	5370	5370	5370	5370	5370	5370			
PKLG	U001	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280		
PKLG	U002	276	277	277	277	277	277	238	157	143	123	83	45	0	0	0	0	0	0	0	0	0	0	0	0	0	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 ST-Oil		556	557	557	557	557	557	518	437	423	403	363	325	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280		
CBPS	GT1A	88	89	88	88	89	88	89	88	88	88	89	89	88	88	89	89	88	88	89	88	88	89	88	88	89	88	88	89	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	
CBPS	GT1B	89	90	90	89	90	91	91	89	90	90	89	91	89	89	89	89	90	90	98	99	98	98	98	98	99	99	97	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
CBPS	ST1C	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
GLGR	GT01	104	105	104	67	63	64	65	65	63	66	63	65	65	65	62	65	66	94	104	104	103	103	102	102	101	102	101	101	102	102	102	103	103	101	101	103	102	102	103	103	103	103	103	103	103	103	103	103	103	103	
GLGR	GT02	108	108	109	69	68	69	68	68	68	68	68	67	68	68	67	69	69	99	107	107	107	107	106	106	106	106	106	105	104	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
GLGR	ST1C	99	99	99	80	68	69	68	69	68	68	68	68	68	68	68	68	68	83	97	97	98	97	97	98	97	98	97	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	
KLPP	GT13	118	117	119	119	118	105	78	66	65	66	65	65	65	65	66	65	65	65	136	138	141	142	141	141	143	143	143	142	142	141	141	142	142	141	120	106	106	106	137	138	143	143	142	144	144	143	144	144	144		
KLPP	GT14	116	116	115	116	117	65	64	64	64	65	65	65	64	65	64	66	64	112	134	139	142	144	143	143	143	144	145	144	145	144	144	144	145	144	145	115	102	102	103	133	139	140	143	144	144	143	142	142	142		
KLPP	GT15	122	121	122	120	122	68	67	67	68	68	68	68	68	68	68	68	68	108	141	146	146	145	145	146	145	145	145	145	145	145	145	145	145	145	118	109	108	109	140	146	145	146	146	146	147	147	148	148	148	148	
KLPP	ST17	190	191	191	191	191	153	149	136	132	134	134	133	133	133	133	133	133	185	201	204	205	205	206	206	205	205	205	205	205	205	205	205	205	180	178	178	201	201	204	204	206	206	206	206	206	206	206	206	206	206	
MPSS	GT01	107	105	105	78	65	62	62	62	60	62	60	61	61	60	62	62	83	107	105	104	105	106	105	103	105	106	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
MPSS	GT02	106	104	106	80	64	62	62	61	59	62	61	60	61	60	61	60	81	106	103	103	104	105	106	102	103	105	103	105	104	103	102	104	105	102	103	105	104	105	102	105	105	105	105	105	105	105	105	105	105	105	105
MPSS	ST01	108	108	108	84	56	55	54	54	54	55	55	55	55	55	54	55	71	105	109	110	110	108	109	110	109	110	110	111	110	111	110	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	
PAKA	GT1A	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PAKA	GT1B	85	84	85	85	83	85	85	83	85	85	84	85	85	85	84	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	
PAKA	ST1C	41	31	31	32	31	32	32	32	32	32	32	32	32	32	32	32	31	32	32	31	32	33	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32		
PGLA	GT11	151	152	151	152	154	155	153	154	154	156	154	156	158	156	158	157	239	236	236	232	239	238	232	236	235	236	236	231	235	233	235	235	233	223	222	204	226	232	234	235	232	236	229	226	237	240	240	240	240		



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																										
TIE-HVDC		30	31	31	30	30	30	30	31	31	30	30	31	31	29	30	32	30	30	32	29	29	29	31	31	30	30	29	29	30	30	30	30	30	30	30	31	31	32	32	32										
TIE-PLTG		-24	30	14	-23	81	-63	11	58	10	13	6	-61	-75	-46	2	36	-17	-42	11	14	20	-81	51	-55	-70	-1	-16	74	-70	36	9	-28	-8	16	50	12	-16	-6	4	-27	8	-21	10	18	47	8	72	157		
Interconnection		6	61	45	7	111	-33	41	89	41	43	36	-30	-44	-16	32	65	14	-11	40	44	52	-51	81	-23	-38	29	14	106	-41	65	38	3	23	46	80	41	13	24	34	3	38	9	40	49	78	40	104	169		
<b>System Total</b>		<b>12439</b>	<b>12067</b>	<b>11948</b>	<b>11702</b>	<b>11445</b>	<b>11201</b>	<b>11100</b>	<b>10881</b>	<b>10608</b>	<b>10559</b>	<b>10459</b>	<b>10574</b>	<b>10514</b>	<b>10701</b>	<b>10550</b>	<b>10318</b>	<b>10482</b>	<b>10954</b>	<b>11604</b>	<b>11984</b>	<b>12422</b>	<b>12787</b>	<b>13040</b>	<b>13224</b>	<b>12930</b>	<b>12727</b>	<b>12654</b>	<b>12762</b>	<b>12864</b>	<b>12897</b>	<b>12794</b>	<b>12917</b>	<b>12845</b>	<b>12786</b>	<b>12423</b>	<b>12172</b>	<b>12174</b>	<b>12046</b>	<b>12324</b>	<b>13245</b>	<b>13288</b>	<b>13184</b>	<b>13038</b>	<b>13023</b>	<b>12726</b>	<b>12739</b>	<b>12602</b>	<b>12238</b>		
SRev ST-Coal		24	29	13	21	20	32	57	34	45	13	16	12	84	16	11	12	-3	1	3	7	6	0	9	12	-2	14	-2	1	-4	5	6	0	6	1	3	19	1	4	2	16	5	5	9	15	7	10	9	17		
SRev ST-Oil		4	3	3	3	3	3	28	28	28	28	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	28	29	29
SRev CCGT-Gas		942	902	971	1211	1243	1175	1100	1292	1343	1342	1412	1322	1312	1100	1207	1338	1388	1020	392	440	322	448	227	333	441	535	489	314	373	514	510	414	465	441	520	735	867	935	693	287	278	356	475	245	443	286	259	382		
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	625	726	726	575	575	726	726	726	726	726	726	726	726	726	474	625	726	726	625	474	474	474	625	625	474	474	625	474	625	625	625	625	474	625	625	625	625	323	474	625	625	625	625	625	625	625		
Hydro		272	331	283	249	140	175	281	149	195	209	122	126	100	111	113	181	333	157	125	139	119	186	200	170	146	173	270	248	91	155	139	101	94	110	262	68	70	115	73	326	216	191	162	89	162	94	102	105		
<b>S.Reserve Total</b>		<b>1867</b>	<b>1739</b>	<b>1895</b>	<b>2210</b>	<b>2132</b>	<b>1960</b>	<b>2016</b>	<b>2229</b>	<b>2337</b>	<b>2318</b>	<b>2304</b>	<b>2214</b>	<b>2250</b>	<b>1953</b>	<b>2057</b>	<b>2257</b>	<b>2192</b>	<b>1803</b>	<b>1251</b>	<b>1312</b>	<b>1072</b>	<b>1108</b>	<b>910</b>	<b>989</b>	<b>1210</b>	<b>1347</b>	<b>1231</b>	<b>1037</b>	<b>1085</b>	<b>1148</b>	<b>1280</b>	<b>1140</b>	<b>1190</b>	<b>1177</b>	<b>1309</b>	<b>1447</b>	<b>1563</b>	<b>1679</b>	<b>1393</b>	<b>952</b>	<b>1012</b>	<b>1222</b>	<b>1271</b>	<b>974</b>	<b>1242</b>	<b>1043</b>	<b>1024</b>	<b>1158</b>		