

**Availability At Daily Maximum Demand Hour**

ST-Coal	2,070 MW
ST-Gas	0 MW
ST-Oil	140 MW
Gas	3,595 MW
Hydro	1,772 MW
Distillate	100 MW
<b>Total TNB</b>	<b>7,677 MW</b>
<b>Total IPP</b>	<b>11,150 MW</b>
<b>Total Co-Gen</b>	<b>91 MW</b>
<b>System Total</b>	<b>18,918 MW</b>

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

At Daily Maximum Demand Hour : 16:30

TNB Generation	6,140 MW
IPP Generation	8,726 MW
Total Set On Bus	15,758 MW
Maximum Demand	14,931 MW
Spinning Reserve	801 MW
Net Energy	307,976 MWH
Load Factor	85.9 %

**Maximum Demand Record**

Date :	20/06/2012	15,826.0MW
Date :	20/06/2012	328,716.0MWH

**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	12030	11540	10836	10595	10386	10548	10885	10984	11306	12957	13834	14369	14371	14064	14593	14724	14821	14537	13395	13326	14176	14047	13423	13098

**Gas Usage**

Station	(mmscfd)
CBPS	49
GLGR	56
PAKA	122
PGPS	26
SRDG	11
TJGS	102
<b>TNB Total</b>	<b>365</b>
KLPP	72
MPSS	55
PGLA	96
PLPS	94
SGB3	78
SGRI	59
SKSP	31
YPGS	34
YPKA	134
<b>IPP Total</b>	<b>652</b>
<b>Total Gas</b>	<b>1,017</b>

Total Gas Required : 1,176  
Gas Calorific Value : 38.500

**Alternate Fuel Usage**

Station	(mmscfd)
KLPP	17
PGLA	2
PGPS	18
PKLG	112
SGRI	10
<b>Total</b>	<b>159</b>

**Generation Mix**

Type	MWh	Percentage
ST-Coal	49,658.00	16.12 %
Gas	46,183.00	15.00 %
Hydro	22,398.00	7.27 %
Distillate	2,262.00	0.73 %
<b>Total TNB</b>	<b>120,501.0</b>	<b>39.13 %</b>
ST-Coal	85,120.0	27.64 %
ST-Oil	10,927.0	3.55 %
Gas	85,214.0	27.67 %
Distillate	3,589.0	1.17 %
<b>Total IPP</b>	<b>184,850.0</b>	<b>60.02 %</b>
Co-Gen	2,382.0	0.77 %
<b>Total Co-Gen</b>	<b>2,382.0</b>	<b>0.77 %</b>
<b>Total Generation</b>	<b>307,733.0</b>	<b>99.92 %</b>
PLTG	225.0	0.07 %
HVDC	-468.0	-0.15 %
<b>Interconnection</b>	<b>-243.0</b>	<b>-0.08 %</b>
<b>Net Energy</b>	<b>307,976.0</b>	<b>100.00 %</b>

**Average SR During Peak Hour**

Type	MW
GT	525
Hydro	261
Syncon	73
Thermal	13
<b>Total</b>	<b>873</b>

**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	GT22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGRI	GT23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGRI	ST24	63	63	62	62	62	63	63	62	62	62	63	63	63	64	70	141	141	200	199	203	201	198	199	204	210
YPGS	GT11	127	130	130	129	132	130	130	130	131	130	131	130	129	130	129	132	131	129	130	127	126	128	128	128	128
YPGS	ST10	69	68	70	70	70	70	70	69	69	70	70	69	69	69	69	69	69	69	69	69	69	69	69	69	
YPKA	BLK1	370	370	371	371	374	374	373	373	372	372	373	373	371	371	375	375	374	374	374	374	370	370	369	369	
YPKA	BLK2	376	376	377	377	378	378	378	378	378	378	376	376	378	378	381	381	378	378	380	380	376	376	374	374	
PLPS	GT11	101	136	135	122	103	62	62	61	62	62	62	61	61	62	101	122	114	115	115	138	137	136	135	124	
PLPS	GT12	108	145	148	129	109	69	69	69	68	69	69	70	69	69	109	126	119	119	118	143	142	142	142	127	
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	72	118	111	112	111	135	135	135	135	120		
PLPS	ST18	160	144	145	135	133	98	97	97	96	97	96	97	96	102	128	202	201	199	200	212	213	213	214	210	
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	
TJGS	GT1A	231	191	114	106	110	107	110	110	107	112	112	152	220	230	180	111	231	228	228	228	228	228	228	228	
TJGS	GT1B	221	181	104	95	99	99	99	99	99	99	99	143	213	224	172	98	222	222	222	222	222	218	222	220	
TJGS	ST1C	258	230	181	152	148	148	148	148	148	148	165	237	258	251	154	253	256	256	256	256	259	259	259	259	
Total CCGT-Gas		4456	4345	4319	3992	3860	3670	3594	3554	3578	3600	3667	3682	3838	4044	4046	4306	4450	5453	5932	6027	6401	6478	6650	6904	
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	0	0	0	0	0	0	0	
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	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	
BSIA	HY01	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	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	
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	
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	
CEND	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	
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	
KNRG	HY02	22	21	23	22	22	22	22	22	22	22	22	22	22	22	22	21	21	22	22	22	22	22	22	22	
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	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	
KNYR	HY02	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	
KNYR	HY03	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	
KNYR	HY04	107	106	106	106	107	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	
LPIA	HY01	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
MNOR	HY01	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
PGAU	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	
PGAU	HY02	111	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	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY04	112	-1	-1	110	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	0	0	0	0	0	0	0	
SIHY	HY02	50	50	50	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	HY02	41	33	44	39	36	51	40	43	35	41	44	50	48	45	39	25	46	35	37	41	39	52	50	48	
TMGR	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	
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	

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																											
<b>Total Hydro</b>		827	593	605	660	546	564	550	553	545	551	554	679	681	721	630	557	588	575	740	1026	1021	1216	1371	1256	1209	912	790	934	1162	1250	1223	1386	1371	1365	1244	1036	855	705	707	1020	1362	1384	1361	1292	1254	1296	1321	1236			
KLPP	GT13	132	130	130	131	65	85	133	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGLA	GT12	190	169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	GT3A	90	88	90	90	90	86	0	0	0	0	0	0	0	0	0	0	0	0	90	91	90	90	89	90	90	90	91	89	90	89	91	90	88	89	90	91	90	91	89	91	89	91	88	89	90	89	89	90	89		
SGRI	GT23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Distillate</b>		412	387	220	221	155	171	133	66	0	0	0	0	0	0	0	0	0	90	91	90	90	89	90	90	90	91	89	90	89	242	344	341	342	344	345	344	345	344	345	345	345	346	348	346	219	222	219				
PCUF	CUFG	51	53	52	51	51	51	53	52	53	52	54	54	53	52	51	52	53	52	52	53	53	51	52	52	52	52	52	51	52	53	52	52	52	52	52	52	52	52	51	53	52	51	51	52	53	51	52	53	51		
PCUF	CUFK	39	39	41	40	39	41	40	40	39	41	41	41	40	39	40	41	40	40	41	41	40	39	41	39	39	37	39	39	38	39	38	39	38	39	38	38	39	40	39	38	38	40	38	38	39	39	40	39	39	40	
<b>Total Co-Gen</b>		90	92	93	91	90	92	93	92	93	91	95	95	94	92	90	92	94	94	91	91	93	90	91	89	91	91	93	91	89	91	91	91	90	90	91	92	91	89	91	92	89	91	92	89	89	91	92	91	92	91	
<b>Total Gen</b>		11978	11601	11434	11160	10842	10698	10571	10449	10409	10424	10508	10647	10802	11043	10951	11132	11326	12321	12952	13338	13893	14068	14381	14549	14363	14154	14030	14214	14494	14737	14745	14786	14779	14957	14638	14077	13481	13310	13291	13829	14167	14153	14041	13907	13574	13390	13099	12778			
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	0	0
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-30	-30	-29	-29	-29	-30	-30	-30	-28	-28	-29	-29	-29	-30	-30	-29	0	-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TIE-PLTG		-23	135	-77	8	35	-22	5	9	53	11	-11	-6	-53	-30	-4	60	49	88	25	-62	-1	-60	40	-67	21	-4	-5	-60	-69	-16	50	15	-13	26	101	24	86	-32	-35	-46	-8	-56	-6	-47	151	12	1	8			
<b>Interconnection</b>		-52	106	-106	-21	6	-51	-24	-20	23	-19	-40	-35	-83	-60	-33	31	20	59	-5	-92	-31	-90	12	-95	-8	-33	-34	-89	-99	-46	21	15	-42	26	101	24	86	-32	-35	-46	-9	-56	-6	-47	151	12	1	8			
<b>System Total</b>		12030	11495	11540	11181	10836	10749	10595	10469	10386	10443	10548	10682	10885	11103	10984	11101	11306	12262	12957	13430	13834	14158	14369	14644	14371	14187	14064	14303	14593	14783	14724	14771	14821	14931	14537	14653	13395	13351	13326	13875	14176	14209	14047	13954	13423	13378	13098	12770			
SRev ST-Coal		3	13	7	4	4	5	2	10	9	7	8	12	7	10	16	23	7	6	5	10	1	8	14	1	3	4	6	5	12	11	2	10	8	9	7	6	2	5	5	5	4	5	5	10	6	7	1	1	1		
SRev ST-Oil		12	9	10	10	12	9	9	9	11	11	11	11	10	10	10	10	10	11	11	12	12	10	10	10	10	11	11	12	12	11	11	28	28	13	7	3	3	5	5	4	4	4	1	1	1	1	1	1	1		
SRev CCGT-Gas		904	1015	1271	1238	1370	1480	1366	1406	1522	1500	1433	1418	1262	1056	1054	1244	1550	967	858	903	549	472	650	401	525	441	434	411	417	439	430	512	342	272	401	517	900	703	730	514	510	547	629	696	700	800	834	881			
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	0	0
SRev Distillate		58	83	20	19	85	69	7	74	0	0	0	0	0	0	0	0	0	0	0	10	9	10	10	11	10	10	10	9	11	10	11	138	36	39	38	36	35	36	35	35	35	34	32	34	21	18	21				
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	0	
Syncon		474	625	625	474	625	625	625	625	625	625	625	474	474	323	474	625	625	625	323	172	172	86	86	86	86	86	474	625	474	172	86	86	86	86	0	0	86	86	388	388	237	0	0	0	0	0	0	0	0	0	
Hydro		159	92	80	126	89	71	85	82	90	84	81	107	105	216	156	128	97	110	247	262	267	368	214	389	376	225	196	203	279	277	302	199	214	306	427	339	469	317	315	303	330	308	309	268	307	265	239	324			
<b>S.Reserve Total</b>		1615	1842	2018	1876	2190	2264	2099	2211	2262	2232	2163	2027	1863	1620	1715	2035	2094	1723	1449	1363	1016	960	989	902	1016	1169	1287	1119	936	951	968	946	933	801	1093	1081	1501	1456	1484	1104	888	904	986	1012	1053	1099	1098	1233			