

Availability At Daily Maximum Demand Hour

ST-Coal	2,070 MW
ST-Gas	0 MW
ST-Oil	70 MW
Gas	3,017 MW
Hydro	1,853 MW
Distillate	790 MW
Total TNB	7,800 MW
Total IPP	10,984 MW
Total Co-Gen	44 MW
System Total	18,828 MW

Set On Bus, TNB, IPP And MD

At Daily Maximum Demand Hour : 15:30

TNB Generation	6,336 MW
IPP Generation	9,451 MW
Total Set On Bus	16,871 MW
Maximum Demand	15,892 MW
Spinning Reserve	1,040 MW
Net Energy	321,336 MWH
Load Factor	84.2 %

Maximum Demand Record

Date :	19/03/2013	16,133.0MW
Date :	20/03/2013	333,019.0MWH

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	12001	11498	11180	10718	10659	10434	10412	10781	11619	13427	14521	15269	15312	15016	15604	15852	15865	15471	14207	13783	14845	14585	14116	13737

Gas Usage

Station	(mmscfd)
CBPS	55
GLGR	55
PAKA	139
PGPS	7
TJGS	101
TNB Total	357
KLPP	52
MPSS	48
PGLA	55
PLPS	98
SGRI	91
SKSP	53
YPGS	34
YPKA	131
IPP Total	562
Total Gas	920

Total Gas Required : 1,287
Gas Calorific Value : 38.500

Alternate Fuel Usage

Station	(mmscfd)
KLPP	51
PDPS	16
PGLA	33
PGPS	34
PKLG	102
PTEK	7
SGRI	94
SRDG	30
Total	367

Generation Mix

Type	MWh	Percentage
ST-Coal	43,901.00	13.66 %
Gas	44,912.00	13.98 %
Hydro	20,078.00	6.25 %
Distillate	6,761.00	2.10 %
Total TNB	115,652.0	35.99 %
ST-Coal	94,671.0	29.46 %
ST-Gas	1,154.0	0.36 %
ST-Oil	9,937.0	3.09 %
Gas	73,667.0	22.93 %
Distillate	24,508.0	7.63 %
Total IPP	203,937.0	63.47 %
Co-Gen	1,375.0	0.43 %
Total Co-Gen	1,375.0	0.43 %
Total Generation	320,964.0	99.88 %
PLTG	239.0	0.07 %
HVDC	-611.0	-0.19 %
Interconnection	-372.0	-0.12 %
Net Energy	321,336.0	100.00 %

Average SR During Peak Hour

Type	MW
GT	505
Hydro	290
Syncon	136
Thermal	16
Total	947

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																								
PKLG	U004	285	284	282	284	284	279	281	281	284	283	283	283	284	282	284	284	285	285	285	284	284	285	285	281	283	281	283	281	283	281	284	285																
PKLG	U005	463	461	466	463	463	483	470	464	464	462	465	467	464	465	466	463	463	462	462	462	461	461	463	463	461	463	463	463	463	464	460	463																
PKLG	U006	467	467	467	467	467	467	468	468	468	467	467	467	467	469	470	467	468	468	467	468	462	361	358	352	358	413	463	470	467	467	470	468	468															
JMIG	U001	0	0	0	0	0	0	0	0	0	0	57	153	152	265	381	438	498	550	668	689	691	689	689	686	690	692	689	689	692	691	691	691	684	691	684	691	692	692	690	692	689	689	691	697	690	687	690	693
JMIG	U002	686	685	692	684	684	686	685	687	682	667	669	672	672	668	671	667	687	685	686	686	683	685	684	684	682	685	686	686	687	689	682	686	686	687	684	686	686	683	688	681	688	684	688	683	682	686	684	682
JMIG	U003	689	686	692	691	694	691	689	683	690	669	673	674	672	661	672	675	691	692	691	699	690	692	689	689	688	690	694	691	691	687	690	686	692	689	692	689	688	689	686	688	689	688	691	689	689	692	688	686
TBIN	U002	696	696	693	696	695	697	693	668	671	649	650	650	652	674	670	681	698	695	695	698	697	696	694	695	696	694	701	697	697	697	701	697	696	694	699	694	698	699	702	694	698	696	699	694	697	699	696	
TBIN	U003	694	694	696	699	695	697	690	669	671	649	652	650	651	670	666	687	696	686	694	699	702	694	691	692	696	696	694	697	694	691	697	698	696	698	695	717	694	692	695	695	696	695	698	697	695	694	694	697
JMAH	U001	701	701	700	703	702	701	701	667	672	650	653	653	653	671	665	676	707	696	700	696	702	701	701	697	700	700	706	698	702	696	703	703	703	703	703	705	699	699	701	701	701	701	701	701	701	704	699	700
JMAH	U002	706	699	707	703	705	701	702	678	671	655	653	653	653	675	673	680	701	696	700	706	700	702	701	702	699	704	705	703	705	699	705	705	705	705	703	703	703	703	703	699	705	703	703	703	705	705		
Total ST-Coal		5387	5375	5395	5390	5389	5387	5377	5265	5269	5154	5162	5167	5230	5386	5385	5546	5777	5804	5882	5949	6056	6067	6060	6063	6064	6062	6084	6075	6079	6014	5974	5975	5973	5975	5960	5995	5953	5962	5964	5966	6020	6059	6086	6080	6067	6078	6071	6076
PKLG	U001	276	276	276	276	276	276	276	276	276	276	276	276	276	276	276	276	276	276	276	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	276	276
PKLG	U002	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	193	193	194	194	194	194	193	193	194	194	194	193	193	194	194	194	193	193	193	193	194	194	194	194	194		
Total ST-Oil		470	470	470	470	470	470	470	470	469	469	470	470	470	470	470	469	469	468	468	469	469	469	469	469	469	468	468	469	469	469	469	468	468	469	469	469	468	468	469	469	469	468	468	468	469	469	470	470
CBPS	GT1A	88	88	88	88	88	88	88	88	88	88	88	88	88	98	99	98	99	98	98	98	97	97	97	97	95	92	92	91	91	91	91	93	95	88	87	87	99	98	98	99	92	87	88	88	88			
CBPS	GT1B	90	90	90	89	90	89	89	89	90	89	90	89	90	89	97	98	97	97	98	97	96	95	95	96	95	94	95	93	94	94	93	93	93	89	89	89	96	96	97	96	90	69	0	0	0			
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	50	50	44	44			
GLGR	GT01	96	97	99	82	90	64	62	74	80	63	63	62	62	66	61	63	68	80	89	97	98	98	97	96	88	69	67	81	88	93	96	96	95	94	95	95	60	60	88	97	98	96	97	98	98	98		
GLGR	GT02	105	105	108	92	101	74	73	83	90	71	72	70	73	76	72	74	79	92	99	107	107	107	107	94	75	75	86	94	97	106	108	104	105	105	104	71	70	99	108	107	107	108	107	108	108	108		
GLGR	ST1C	90	97	96	88	89	77	72	76	82	74	72	74	72	75	72	72	72	80	84	97	97	97	96	96	91	75	72	83	84	95	95	96	95	94	94	95	94	72	70	84	97	96	97	97	97	97	97	
KLPP	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	18	19	30	32	32	32	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	29	0	0	0	0	
KLPP	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	12	12	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	16	0	0	0	0		
KLPP	GT13	111	110	65	66	66	65	67	65	66	66	65	66	66	65	66	66	101	142	143	142	143	143	143	143	143	142	141	142	142	142	142	142	141	111	112	112	141	141	142	142	142	142	144	143	144			
KLPP	GT14	101	94	64	64	64	65	64	64	63	64	65	64	63	64	63	65	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT15	113	113	68	67	68	67	68	68	68	67	67	66	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	ST17	187	183	129	129	126	126	126	126	126	128	128	111	141	143	161	190	189	184	213	217	216	216	216	215	215	215	215	215	215	215	215	215	215	215	210	210	215	215	210	210	215	215	215	185	181	183	185	
MPSS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	49	83	106	105	104	104	103	102	101	100	102	103	101	101	102	103	104	104	105	104	104	104	105	105	104	105	105	104	105	105
MPSS	GT02	111	82	83	85	84	85	82	84	83	81	84	82	82	86	82	84	86	83	86	80	110	109	108	108	108	107	107	107	107	107	107	107	107	107	107	107	107	108	108	108	108	108	108	107	108	108	108	108
MPSS	ST01	52	35	35	33	34	35	32	35	34	33	34	32	33	35	33	36	35	35	38	34	108	110	110	109	109	109	109	109	109	109	110	110	110	110	110	110	110	110	110	110	110	110	110	111	111			
PAKA	GT1A	66	66	66	65	65	66	65	65	65	65	65	65	66	65	65	65	65	65	85	85	83	81	81	81	81	81	80	80	80	79	79	80	80	81	81	81	81	81	82	82	83	83	83	83	85			
PAKA	GT1B	64	64	63	65	65	64	64	64	64	65	65	65	64	63	64	66	84	85	83	84	84	85	84	85	85	85	85	84	85	84	86	83	85	84	86	83	85	85	85	84	84	85	85	85	85	85		
PAKA	ST1C	67	66	66	66	66	65	66	65	66	66	66	66	66	66	66	76	76	76	75	75	75	75	75	75	75	75	75	75	75	75	75	75	76	76	76	76	76	76	76	76	76	76	76	76	76	76		
PAKA	GT2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	65	64	64	65	65	64	65	66	65	66	65	76	89	89	90	91	62	62	62	62	63	62	62	63	63	63				

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
PDPS	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
PDPS	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
PDPS	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
PGLA	GT12	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	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	GT3B	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	ST3C	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	GT1B	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	GT2A	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	GT12	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	GT13	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	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
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
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 Distillate		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	37	20	19	19	20	19	20	20	21	20	20	19	19	21	20	20	19	19	18	19	20	20	18	20
PCUF	CUFK	34	35	34	33	36	35	36	36	34	35	37	35	36	35	34	33	30	27	27	26	27	27	28	29
Total Co-Gen		71	55	53	52	56	54	56	57	55	55	56	57	56	55	54	53	50	46	46	48	48	46	47	46
Total Gen		12066	11794	11612	11083	11142	10864	10763	10621	10612	10354	10373	10385	10441	10571	10800	10966	11639	12770	13348	14276	14563	14859	15343	15461
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
TIE-HVDC		30	30	30	-30	-29	-29	-29	-30	-29	-29	-29	-29	-28	-28	-28	-31	-29	-28	-29	-30	-30	-29	-29	-30
TIE-PLTG		35	35	84	-51	-9	-1	74	-29	-18	-7	-32	-30	58	-23	48	42	48	93	-50	89	70	61	102	174
Interconnection		65	65	114	-81	-38	-30	45	-59	-47	-36	-61	-59	29	-52	19	13	20	63	-79	60	42	33	74	143
System Total		12001	11729	11498	11164	11180	10894	10718	10688	10659	10390	10434	10444	10412	10623	10781	10953	11619	12707	13427	14216	14521	14826	15269	15318
SRev ST-Coal		-2	12	-10	-5	-4	8	120	116	231	223	218	277	219	220	165	53	83	66	51	19	8	15	12	26
SRev ST-Oil		0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev CCGT-Gas		496	739	946	1478	1432	1693	1870	1912	1923	2141	2137	2152	2137	1892	1791	1818	1664	874	523	555	349	479	334	315
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
SRev Distillate		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
Syncon		625	625	625	625	474	625	625	625	625	625	625	625	625	625	474	625	625	625	625	625	625	625	625	625
Hydro		184	93	88	79	220	82	108	96	96	113	106	233	105	98	160	248	81	253	185	214	423	620	390	295
S.Reserve Total		1308	1474	1654	2182	2127	2403	2616	2758	2765	3115	3097	3083	3149	3117	2888	2969	2516	1921	1598	1225	1132	1315	889	782