

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,583 MW
Hydro	1,858 MW
Distillate	0 MW
Total TNB	<u>5,441 MW</u>
Total IPP	<u>13,274 MW</u>
Total Co-Gen	<u>0 MW</u>
Total System	<u>18,715 MW</u>

Generation Mix

Type	MWh	Percentage
Gas	63,025	18.49 %
Hydro	14,158	4.15 %
Total TNB	77,183	22.64 %
ST-Coal	148,289	43.50 %
ST-Oil	13,003	3.81 %
Gas	101,514	29.78 %
Total IPP	262,806	77.09 %
Co-Gen	582	0.17 %
Total Co-Gen	582	0.17 %
Total Generation	340,571	99.90 %
PLTG	387	0.11 %
HVDC	-735	-0.22 %
Interconnection	-348	-0.10 %
Net Energy	340,919	100.00 %

Maximum Demand Record

Date: 4/14/2016	17,689 MW
Date: 4/13/2016	368,760 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	14:30:00 Hour
Total Set On Bus	16,728 MW
TNB Generation	4,034 MW
IPP Generation	11,354 MW
Spinning Reserve	1,317 MW
Maximum Demand	15,408 MW
Net Energy	340,919 MWH
Load Factor	92.19 %

Fuel Cost

Average Spinning Reserve During Peak Hour

Type	MW
GT	580
Hydro	292
Syncon	379
Thermal	196
Total	1,447

Time	Weather	Temperature
Afternoon	Lightning	36
Morning	Sunny	34

Gas Usage

Station	(mmscfd)
CBPS	1
GLGR	56
PAKA	155
PGPS	53
TJGS	212
Total TNB	477
CBPS	55
KLPP	113
MPSS	60
NPRI	124
PGLA	105
PLPS	9
PTEK	3
SGB3	67
SGRI	201
SKSP	31
Total IPP	767
Total Gas	1,244
Total Gas Required	1,371

Alternate Fuel Usage

Station	(mmscfd)
PKLG	127
Total	127

Hourly System MW Generation

	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
System Total	15131	14364	13885	13362	13118	12742	12572	12262	11951	13202	14166	14871	14963	14727	15151	15387	15346	14871	14278	14199	15264	15229	14943	14700

Daily MW Generation on Saturday

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
PLPS	GT12	135	134	130	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT13	126	126	121	117	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	ST18	209	211	207	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	GT31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	GT32	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	GT33	112	112	106	106	107	107	107	107	107	106	141	141	139	143	143	0	0	0	0	0	0	0	0	0
SGB3	ST34	135	69	61	61	60	59	59	60	60	60	69	69	69	74	145	96	70	68	68	71	146	150	150	150
SGRI	GT11	127	128	121	121	135	132	133	135	132	61	60	60	60	60	60	60	60	104	136	135	134	134	134	133
SGRI	GT12	133	131	125	126	141	145	138	139	141	100	66	66	65	65	65	65	65	73	110	146	145	145	146	143
SGRI	GT13	128	131	125	121	62	0	0	0	0	0	0	0	0	0	0	0	0	38	135	131	131	131	132	132
SGRI	ST14	214	213	209	212	201	155	146	148	147	123	94	92	93	92	94	94	93	94	132	153	216	221	219	221
SGRI	GT21	132	130	127	124	127	128	106	106	62	62	63	63	63	62	62	63	63	107	107	108	127	131	127	127
SGRI	GT22	138	138	137	138	134	137	110	111	65	65	65	65	65	66	66	66	66	111	111	120	138	135	135	136
SGRI	GT23	140	140	139	139	131	139	108	108	63	63	61	64	64	64	63	63	63	108	108	109	135	136	136	137
SGRI	ST24	219	221	215	220	211	217	196	197	146	144	145	141	142	142	144	143	143	142	194	196	190	216	220	219
SKSP	BLK1	135	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	222	222	222	222	222	222	225	227	221	224	220	221	205	174	128	223	223	190	218	223	194	222	196	206
TJGS	GT1B	214	211	211	215	215	215	213	214	213	209	206	197	168	123	212	211	184	208	212	187	213	189	196	202
TJGS	ST1C	250	250	250	250	250	250	253	250	253	245	241	238	214	181	235	243	200	242	252	244	249	250	241	252
TJGS	GT2A	214	214	214	214	214	214	217	219	220	221	205	196	187	144	143	183	219	219	219	217	216	216	218	218
TJGS	GT2B	210	210	210	210	210	212	215	217	216	217	201	193	183	140	141	179	222	219	219	217	217	217	217	217
TJGS	ST2C	258	258	258	258	258	256	256	261	261	259	244	241	241	215	215	215	238	264	264	262	262	262	262	262
Total CCGT-Gas		7960	7510	7407	7177	6861	6695	6454	6353	6191	6062	5826	5740	5660	5623	5404	5028	5097	5767	6389	6917	7302	7629	7835	7686
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
PTEK	GT2B	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	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	12	12	12	12	12	12	12	12	12	12	12	11	11	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	10	10	10	10	10	10	10	10	10
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
HTRG	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
HTRG	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	HY01	23	24	23	23	23	23	23	23	23	23	23	23	23	23	23	22	23	23	23	22	23	23	23	23
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	HY02	65	67	66	63	63	66	63	63	61	60	60	61	60	59	62	64	61	60	65	57	66	60	60	61
KNYR	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
KNYR	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
LPIA	HY01	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
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
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY04	20	111	78	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
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	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	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

