

Daily System Generation Summary on Thursday

Thursday, September 17, 2015

Availability at Daily Maximum Demand Hour

ST-Coal	3,080 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,857 MW
Hydro	1,840 MW
Distillate	0 MW
Total TNB	8,777 MW
Total IPP	8,939 MW
Total Co-Gen	0 MW
Total System	17,716 MW

Maximum Demand Record

Date: 6/11/2014	16,901 MW
Date: 6/24/2014	355,911 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	11:30:00 Hour
Total Set On Bus	16,736 MW
TNB Generation	7,573 MW
IPP Generation	7,891 MW
Spinning Reserve	1,246 MW
Maximum Demand	15,469 MW
Net Energy	326,534 MWH
Load Factor	87.95 %

Gas Usage

Station	(mmscfd)
CBPS	14
CBPS	47
GLGR	56
PAKA	187
PGGS	9
PGPS	49
SRDG	11
TJGS	217
Total TNB	589

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Generation Mix

Type	MWh	Percentage
ST-Coal	68,744	21.05 %
Gas	76,200	23.34 %
Hydro	12,174	3.73 %
Total TNB	157,118	48.12 %
ST-Coal	74,546	22.83 %
ST-Gas	9,646	2.95 %
Gas	84,885	26.00 %
Total IPP	169,077	51.78 %
Co-Gen	724	0.22 %
Total Co-Gen	724	0.22 %
Total Generation	326,919	100.12 %
PLTG	-342	-0.10 %
HVDC	727	0.22 %
Interconnection	385	0.12 %
Net Energy	326,534	100.00 %

Fuel Cost

Total Cost:	49,949,257.36 RM
Cost per Unit	15.86 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	227
Hydro	336
Syncon	577
Thermal	63
Total	1,203

KLPP	3
MPSS	50
PDPS	15
PGLA	112
PKLG	8
PLPS	101
PTEK	12
SGB3	79
SGRI	169
YPKA	125
PKLG	96
Total IPP	770
Total Gas	1,359

Total Gas Required 1,359

Time	Weather	Temperature
Afternoon	Cloudy	35
Morning	Cloudy	25

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	12663	12237	11531	11404	11005	10882	11228	11254	12167	14095	14817	15389	15263	14775	15170	15381	15395	15126	14212	14293	14964	14840	14262	13746

Daily MW Generation on Thursday

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	GT12	113	150	148	126	111	66	65	70	65	65	66	66	66	66	66	66	66	66	66	66	66	66	66	66
SGRI	GT13	112	130	129	123	111	61	58	58	60	60	59	61	61	61	59	59	132	132	132	132	128	133	132	129
SGRI	ST14	132	147	149	143	132	92	95	99	95	92	94	91	92	93	91	91	151	147	151	149	143	148	150	148
SGRI	GT21	131	131	131	131	104	60	60	60	61	61	60	60	60	60	61	60	138	117	136	137	127	134	137	134
SGRI	GT22	135	135	135	135	112	65	66	66	66	66	65	65	66	66	66	65	65	137	122	140	136	130	137	137
SGRI	GT23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	65	140	140	127	141	141	
SGRI	ST24	148	148	148	148	130	102	101	98	100	101	101	98	100	100	94	103	148	166	218	217	214	220	214	219
YPKA	BLK1	269	281	283	283	279	279	286	286	286	286	286	290	302	309	349	354	354	355	355	356	354	354	352	352
YPKA	BLK2	293	305	305	305	301	301	309	309	310	310	309	309	313	325	333	372	381	381	382	382	384	381	381	380
PLPS	GT11	136	141	143	135	107	111	112	66	61	62	62	65	65	65	62	65	66	115	148	146	147	147	150	150
PLPS	GT12	135	140	141	133	115	119	118	70	69	70	69	73	72	73	71	71	72	123	144	143	144	144	143	143
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	158	157	159	160	159	160	
PLPS	ST18	142	143	145	143	132	134	132	105	98	97	95	99	100	99	105	102	105	135	214	216	214	215	216	
TJGS	GT1A	217	203	205	192	191	190	207	220	216	216	202	219	216	216	220	219	225	226	222	225	226	223	223	
TJGS	GT1B	217	199	199	183	183	182	201	215	209	215	190	217	218	215	192	210	213	216	218	218	218	218	218	
TJGS	ST1C	256	245	250	230	227	243	230	251	255	254	234	257	257	257	257	257	257	257	257	257	257	257	257	
TJGS	GT2A	218	203	202	188	188	187	194	133	133	133	133	190	212	188	197	201	214	214	214	217	217	219	219	
TJGS	GT2B	220	201	198	183	184	181	190	129	129	129	129	129	185	208	183	193	197	219	218	218	218	218	218	
TJGS	ST2C	263	252	262	239	239	244	239	209	209	209	209	209	225	259	242	241	244	255	259	261	261	261	261	
Total CCGT-Gas		5909	5694	5710	5399	5109	4883	4929	4724	4698	4701	4636	4711	4855	4955	4858	4988	5480	6256	7051	7198	7252	7345	7315	
CBPS	GT05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	113	76	76	76	76	
CBPS	GT06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123	124	79	78	77	78	
PDPS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PDPS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	103	82	78	89	68	
PDPS	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111	79	88	70	66	73	
PGGS	GT6B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	101	101	101	101	101	
PKLG	GT08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PKLG	GT09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	75	95	81	82	94	
PTEK	GT2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	104	98	76	76	82	
PTEK	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	107	69	68	68	74	
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105	104	104	104	104	104	
Total OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	262	415	302	635	872	798	712	697	716	744	
BSIA	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	11	11	11	11	
BSIA	HY02	12	12	12	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
BSIA	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13	0	0	0	0	
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	
CEND	HY02	7	8	8	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
CEND	HY03	7	8	8	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
CEND	HY04	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
KNRG	HY01	21	22	22	21	22	22	23	23	24	25	24	24	25	25	24	24	24	24	24	24	23	23	24	
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	25	26	26	26	26	
KNRG	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22	20	20	20	20	
KNYR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	94	71	61	94	94	
KNYR	HY02	55	94	82	54	58	61	68	99	80	66	62	78	76	65	65	75	82	76	63	60	63	89	72	
KNYR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	95	95	95	95	95	
KNYR	HY04	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	90	83	60	95	83	
LPIA	HY01	7	8	9	7	7	8	8	9	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	

Daily MW Generation on Thursday

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
LPIA	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
MNOR	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	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
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY04	-1	-1	-1	19	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	111	82	-1	-1	-1	-1	-1	-1	-1	-1
SIHY	HY01	30	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	30	30	30	30	30
SIHY	HY02	30	0	0	0	0	0	0	0	0	0	0	0	0	31	30	30	30	30	30	30	30	30	30	30
SYPS	HY01	16	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16	16	16	16	16	16	16	16
SYPS	HY02	16	0	0	0	0	0	0	0	0	0	0	0	0	4	16	16	16	16	16	16	16	16	16	16
SYPS	HY03	16	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	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	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
TMGR	HY02	31	36	37	29	32	36	35	38	61	61	57	59	62	62	61	62	62	47	36	34	49	37	65	35
TMGR	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
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	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Total Hydro		292	216	206	184	192	181	187	224	228	213	206	224	227	237	214	275	326	613	559	524	597	832	1136	948
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	7	7	7	7	7	6	7	6	5	5	5	7	5	6	6	6	7	6	4	5	5	3	4	4
PCUF	CUFK	28	28	28	27	27	27	26	24	23	22	22	23	23	23	23	24	24	24	23	23	22	21	22	21
Total Co-Gen		35	35	35	34	34	33	33	30	28	27	27	30	30	31	29	27	26	26	24	24	25	26	26	24
Total Gen		12734	12321	12228	11807	11571	11328	11387	11094	11015	10986	10918	11039	11257	11422	11297	11482	12132	13269	14104	14582	14858	15113	15399	
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		31	31	31	31	30	30	30	30	30	31	31	31	31	31	30	30	31	31	30	30	30	30	30	30
TIE-PLTG		-40	-52	-39	39	10	-42	-47	-46	-20	-21	5	-26	-2	12	12	-15	-65	-28	-21	-13	10	-66	-20	
Interconnection		71	-21	-9	70	40	-12	-17	-16	10	9	36	4	29	43	43	16	-35	1	9	18	41	-35	10	
Svstem Total		12663	12342	12237	11737	11531	11340	11484	11110	11085	10977	10882	11035	11228	11379	11254	11466	12167	13268	14095	14564	14817	15148	15389	
SRev ST-Coal		191	155	79	155	108	113	106	228	281	289	294	266	195	138	144	151	91	94	110	42	48	12	48	
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 CCGT-Gas		226	441	425	764	1054	1280	1234	1439	1465	1462	1527	1452	1308	1247	1344	1229	1235	1004	363	216	228	135	165	
SRev ST-Gas		69	77	75	74	74	74	74	75	75	74	74	34	34	33	33	37	13	9	3	3	-2	1	1	
SRev Co-Gen		9	9	10	10	11	11	14	16	17	17	14	14	16	15	14	14	13	15	17	17	18	18	18	
Syncon		726	726	726	575	676	827	827	827	827	827	827	827	676	827	827	827	474	625	625	625	625	625	625	625
Hydro		220	96	106	279	270	130	124	87	83	98	105	87	84	225	97	111	135	301	204	239	427	254	491	
S.Reserve Total		1441	1584	1420	1858	2192	2435	2376	2669	2747	2768	2844	2720	2462	2336	2460	2365	2339	1899	1308	1182	1293	1049	1135	