

Daily System Generation Summary on Friday

Friday, March 16, 2018

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,802 MW
Hydro	2,465 MW
Distillate	0 MW
Total TNB	5,267 MW
Total IPP	15,843 MW
Total Co-Gen	55 MW
Total System	21,165 MW

Generation Mix

Type	MWh	Percentage
Gas	40,842	11.26 %
Hydro	18,187	5.02 %
Total TNB	59,029	16.28 %
ST-Coal	190,361	52.50 %
ST-Gas	244	0.07 %
Gas	111,375	30.72 %
Total IPP	301,980	83.28 %
Co-Gen	1,412	0.39 %
Total Co-Gen	1,412	0.39 %
Total Generation	362,421	99.95 %
PLTG	-175	-0.05 %
Interconnection	-175	-0.05 %
Net Energy	362,596	100.00 %

Maximum Demand Record

Date: 10/23/2017	17,790 MW
Date: 3/15/2018	372,493 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:00:00 Hour
Total Set On Bus	18,251 MW
TNB Generation	2,857 MW
IPP Generation	13,839 MW
Spinning Reserve	1,500 MW
Maximum Demand	16,776 MW
Net Energy	362,596 MWH
Load Factor	90.06 %

Fuel Cost

Total Cost:	64,764,695.32 RM
Cost per Unit	18.81 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	403
Hydro	547
Syncon	697
Thermal	67
Total	1,714

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
CBPS	11
GLGR	49
PAKA	2
PGPS	22
SRDG	4
TJGS	211
Total TNB	299
CBPS	52
KLPP	95
MPSS	27
NPRI	160
PGLA	109
PTEK	8
SGRI	160
SKSP	50
YPKA	84
PKLG	3
Total IPP	748
Total Gas	1,047
Total Gas Required	1,047

Alternate Fuel Usage

Station	(mmscfd)
Total	0

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	15210	14472	13879	13451	13221	12930	13107	13162	13239	14966	15935	16548	16580	16238	16520	16393	16776	16409	15388	15181	16210	16009	15455	15165

Daily MW Generation on Friday

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	GT23	143	141	107	108	107	107	107	107	107	108	108	107	107	104	111	111	114	107	111	110	108	140	140	140	144	144	143	142	129	140	140	140	123	116	111	113	115	126	115	135	115	126	108	112	108	112									
SGRI	ST24	86	68	59	60	60	61	61	61	60	60	59	59	60	60	59	61	60	62	59	64	53	126	138	215	219	219	215	213	211	208	217	213	218	204	199	195	191	195	206	198	203	202	202	196	194	194	188								
SKSP	BLK1	218	245	217	220	257	290	217	217	228	220	220	220	218	219	219	223	344	346	344	344	345	343	320	251	224	224	288	348	346	292	335	343	322	277	249	220	217	219	280	270	292	278	287	218	218	220	232								
TJGS	GT1A	222	221	213	211	206	212	199	216	167	178	143	148	187	157	141	131	191	227	231	222	228	216	223	214	208	161	220	227	229	227	209	226	220	222	208	215	185	194	226	223	224	223	223	222	226	219	229								
TJGS	GT1B	215	213	206	203	199	204	192	211	163	168	136	141	182	153	133	125	185	218	217	215	216	211	213	209	203	152	212	213	214	212	194	214	214	213	202	208	181	189	208	214	216	216	216	216	212	216	212	215							
TJGS	ST1C	250	252	244	234	245	245	230	225	198	197	182	201	205	196	179	178	195	255	258	254	255	257	255	253	252	223	254	253	257	256	253	255	255	253	252	251	234	236	241	251	253	252	253	253	251	252	247	242							
TJGS	GT2A	206	206	204	192	192	201	182	143	144	144	144	144	144	144	144	214	214	214	214	214	214	213	213	215	214	214	214	214	214	214	214	214	214	214	214	214	214	214	214	214	213	214	214	215	214	214	214	215	215						
TJGS	GT2B	209	209	206	196	195	205	184	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147						
TJGS	ST2C	257	257	253	245	255	255	243	211	211	211	211	211	211	211	211	211	211	260	261	261	261	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262				
YPKA	GT11	133	133	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
YPKA	GT12	131	134	134	133	66	70	70	70	70	70	70	70	70	69	71	71	74	135	136	135	136	135	136	135	136	135	135	133	133	132	128	131	129	128	130	133	132	130	130	132	133	133	131	131	133	131	131	130	101						
YPKA	ST10	130	130	103	60	36	35	35	35	35	35	35	35	36	36	35	35	36	35	35	36	37	35	127	131	130	132	130	131	130	131	131	130	130	129	130	130	129	130	130	130	130	130	130	130	130	130	129	129	115						
YPKA	GT21	132	133	134	135	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65					
YPKA	ST20	64	63	63	64	39	38	38	38	38	39	38	39	39	39	39	39	39	63	63	63	63	63	63	63	63	64	64	64	64	63	63	63	64	64	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63			
Total CCGT-Gas		6339	6328	6008	5741	5565	5376	5181	5111	4935	4731	4652	4504	4625	4592	4533	4477	4692	5755	6440	6684	6956	6980	7156	7222	7211	7045	7208	7296	7423	7296	7227	7353	7389	7378	7196	7151	6835	6563	6670	7090	7052	7151	7001	7012	6590	6532	6281	6051							
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	0	0	0	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	0	0	0	0	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	0	0	0	0	0	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 CCGT-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	0	0		
BSIA	HY01	22	22	22	22	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12				
BSIA	HY02	23	23	23	23	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13	23	23	23	23	14	13	13	13	13	12	12	12	13	13	13	13	13	12	12	12	23	23	23	23	12	12	12	12	0		
BSIA	HY03	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	13	23	23	23	23	18	12	13	13	13	12	13	12	12	12	12	12	12	12	12	12	23	23	23	23	12	12	12	12	0			
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	9	9	10	10	9	10	10	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	
CEND	HY02	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	
CEND	HY03	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
HTRG	HY01	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	100	99	99	99	63	62	124	-1	-1	-1	-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	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
KNRG	HY01	24	25	24	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	24	36	36	36	36	36	25	26	26	26	25	26	25	26	25	26	25	26	25	26	26	35	35	35	35	25	26	25	0	0			
KNRG	HY02	25	26	25	25	25	26	26	27	27	26	26	26	26	27	27	26	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27		
KNRG	HY03	21	23	22	22	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	97	101	98	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	100	100	98	97	100	102	102	100	101	102	99	100	100	99	100	100																	

Daily MW Generation on Friday

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	
TMGR	HY01	71	-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	72	36	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY03	69	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	70	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	
UJLI	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	
UJLI	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	
Total Hydro		1065	851	801	802	803	743	725	725	741	722	725	728	730	721	664	696	827	643	886	841	1145	1192	1305	1150	
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	32	30	28	28	29	29	31	32	29	31	30	32	32	33	31	31	32	31	29	29	29	27	29	27	
PCUF	CUFK	29	30	31	31	31	32	31	32	33	33	34	32	32	33	31	32	32	32	34	34	32	28	29	31	30
Total Co-Gen		61	60	59	59	60	61	62	64	62	64	64	64	64	66	62	63	63	64	65	63	61	57	56	60	57
Total Gen		15217	14831	14456	14203	13897	13657	13433	13368	13190	13003	12901	12884	13072	13193	13115	13006	13205	14405	14924	15517	15841	16196	16508	16706	
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		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-PLTG		7	35	-16	7	18	-40	-18	16	-31	-21	-29	-40	-35	-9	-47	63	-34	8	-42	-9	-94	-76	-40	30	
Interconnection		7	35	-16	7	18	-40	-18	16	-31	-21	-29	-40	-35	-9	-47	63	-34	8	-42	-9	-94	-76	-40	30	
System Total		15210	14796	14472	14196	13879	13697	13451	13352	13221	13024	12930	12924	13107	13202	13162	12943	13239	14397	14966	15526	15935	16272	16548	16676	
SRev ST-Coal		85	284	202	104	161	58	70	67	68	72	94	50	80	86	83	111	56	39	171	72	11	71	56	70	
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		1003	938	967	967	1098	1197	1392	1462	1638	1842	1921	2069	1948	1981	2040	2096	1881	971	668	639	367	409	233	374	
SRev ST-Gas		37	37	37	32	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		827	912	998	998	998	998	998	998	998	847	998	998	998	847	912	912	1038	802	928	590	777	439	710	626	
Hydro		198	219	183	182	181	165	159	159	159	294	162	159	156	154	163	371	274	143	201	378	321	430	346	571	
S Reserve Total		2150	2390	2387	2283	2438	2418	2619	2686	2862	3051	3153	3320	3152	3213	3287	3397	3178	2082	1946	1990	1688	1440	1427	1440	