

Daily System Generation Summary on Friday

Friday, March 09, 2018

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,680 MW
Hydro	2,465 MW
Distillate	0 MW
Total TNB	<u>5,145 MW</u>
Total IPP	<u>13,354 MW</u>
Total Co-Gen	<u>56 MW</u>
Total System	<u>18,555 MW</u>

Generation Mix

Type	MWh	Percentage
Gas	54,893	15.29 %
Hydro	21,888	6.10 %
Total TNB	76,781	21.39 %
ST-Coal	160,763	44.78 %
ST-Gas	839	0.23 %
Gas	118,443	32.99 %
Total IPP	280,045	78.01 %
Co-Gen	1,449	0.40 %
Total Co-Gen	1,449	0.40 %
Total Generation	358,275	99.80 %
PLTG	-34	-0.01 %
HVDC	-694	-0.19 %
Interconnection	-728	-0.20 %
Net Energy	359,003	100.00 %

Maximum Demand Record

Date: 10/23/2017	17,790 MW
Date: 4/20/2016	372,457 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	18,390 MW
TNB Generation	4,077 MW
IPP Generation	12,800 MW
Spinning Reserve	1,457 MW
Maximum Demand	16,942 MW
Net Energy	359,003 MWH
Load Factor	88.29 %

Fuel Cost

Total Cost:	65,870,814.94 RM
Cost per Unit	19.58 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	361
Hydro	491
Syncon	400
Thermal	99
Total	1,351

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
CBPS	52
GLGR	56
PAKA	23
PGPS	46
SRDG	13
TJGS	220
Total TNB	411
CBPS	2
KLPP	116
MPSS	55
NPRI	156
PDPS	1
PGLA	117
PTEK	26
SGRI	209
SKSP	56
YPKA	71
PKLG	8
Total IPP	820
Total Gas	1,230

Total Gas Required	1,230
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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	14762	14012	13442	13054	12937	12671	12751	12709	13036	14689	15603	16237	16129	15680	15994	16668	16941	16618	15566	15173	16430	16261	15835	15386

Daily MWH Generation on Friday

Friday, March 09, 2018

Station	Unit	Fuel Type	Calculated MWH
CEND	HY02	Hydro	216
CEND	HY03	Hydro	236
			692
HTRG	HY01	Hydro	1,197
HTRG	HY02	Hydro	254
			1,451
KNRG	HY01	Hydro	238
KNRG	HY02	Hydro	661
KNRG	HY03	Hydro	283
			1,182
KNYR	HY01	Hydro	1,344
KNYR	HY02	Hydro	2,094
KNYR	HY03	Hydro	1,771
KNYR	HY04	Hydro	1,426
			6,635
LPIA	HY01	Hydro	498
LPIA	HY02	Hydro	264
			762
MNOR	HY01	Hydro	116
			116
PGAU	HY01	Hydro	510
PGAU	HY02	Hydro	219
PGAU	HY03	Hydro	533
PGAU	HY04	Hydro	689
			1,951
SIHY	HY01	Hydro	418
SIHY	HY02	Hydro	333
SIHY	HY03	Hydro	330
			1,081
SYPS	HY02	Hydro	179
SYPS	HY03	Hydro	216
SYPS	HY04	Hydro	210
			605
TMGR	HY01	Hydro	1,097
TMGR	HY02	Hydro	1,073
TMGR	HY03	Hydro	1,328
TMGR	HY04	Hydro	1,060
			4,558
UJLI	HY01	Hydro	1,017
UJLI	HY02	Hydro	669
			1,686
UPIA	HY01	Hydro	120
			120
Subtotal			21,888
PCUF	CUFG	Co-Gen	694
PCUF	CUFK	Co-Gen	755
Subtotal			1,449

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																									
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	51	51	51	51	51	0	0	0	0	0	0	0	0	31	30	30	30	0	0	0	0												
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	51	51	51	51	30	0	0	0	0	0	0	0	0	0	0	30	30	30	30	0	0	0	0									
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	0	0	0	0	0	0	0	0	17	17	17	17	0	0	0	0												
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	25	25	25	25	25	16	16	16	25	25	25	17	0	0	0	0	0	0	17	17	17	0	0	0	0								
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	25	25	25	25	25	16	16	16	25	25	25	25	17	0	0	0	0	0	17	17	17	17	0	0	0	0								
TMGR	HY01	61	0	0	0	0	0	38	32	33	-1	-1	-1	31	0	0	0	85	31	86	85	85	85	85	85	85	85	85	85	61	61	62	85	85	85	85	85	85	85	85	85	85	85	85						
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	63	63	86	63	63	63	61	63	63	63	63	83	83	83	83	83	83	59	63	63	86	86	86	86	85	86	86	86	-1					
TMGR	HY03	32	32	32	32	32	32	34	32	32	30	33	32	30	32	60	60	79	60	60	60	58	60	60	60	60	84	84	84	84	84	84	56	60	60	76	76	76	76	76	76	60	60	60						
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	61	61	75	61	61	61	60	61	61	61	61	85	85	85	85	85	85	57	61	61	84	84	84	84	84	84	84	84	61	61	61				
UJLI	HY01	-1	-1	-1	-1	-1	-1	20	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	184	177	184	181	183	177	176	-1	-1	-1	95	183	182	90	92	90	-1	-1	-1						
UJLI	HY02	-1	-1	-1	-1	-1	-1	20	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	97	185	185	186	186	92	-1	-1	-1								
UPLIA	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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5						
Total Hydro		398	334	338	337	344	293	195	269	384	265	260	226	218	219	218	193	203	352	842	1255	1636	1434	1566	1643	1541	1179	1016	993	1050	1573	1666	1674	1669	1616	1451	1292	861	724	730	1238	1705	1698	1565	1543	1207	795	729	580	
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	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	29	30	30	29	30	29	29	30	29	30	31	31	31	30	29	28	28	29	28	27	27	28	29	28	28	27	27	27	26	27	28	29	29	29	29	28	29	29	30	30	29	30	28	29	30			
PCUF	CUFK	30	33	31	31	31	34	34	35	35	35	36	35	37	37	36	37	37	37	37	37	37	31	28	30	29	28	30	29	29	29	28	29	29	29	29	29	29	29	29	29	29	29	29	28	30	30			
Total Co-Gen		62	62	61	61	60	64	63	64	65	64	65	66	64	67	68	67	68	67	66	65	59	57	58	57	56	56	59	57	57	56	58	56	54	56	55	58	60	59	57	57	58	59	59	58	59	58	59	60	
Total Gen		14688	14340	13971	13670	13378	13241	12997	12962	12846	12655	12615	12614	12664	12821	12786	12598	12973	13956	14644	15136	15534	15843	16182	16184	16116	15844	15685	15675	15923	16324	16684	16833	16945	16933	16641	16187	15892	15195	15115	15905	16407	16410	16255	16189	15822	15668	15402	15277	
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		
TIE-HVDC		-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-30	-29	-29	-29	-30	-30	-29	-30	-30	-30	-30	-29	-30	-30	-30	-28	-28	-28	-28	-28	-31	-28	-29					
TIE-PLTG		-45	-51	-12	-43	-36	-24	-29	-27	-63	-7	-27	-6	-59	43	105	-14	-34	-18	-15	-55	-39	23	-26	-26	16	4	34	-22	-42	-51	46	17	35	21	53	96	57	95	-29	-45	5	21	22	38	15	-19	43	5	
Interconnection		-74	-80	-41	-72	-64	-53	-57	-56	-91	-36	-56	-35	-87	14	77	-42	-63	-48	-45	-84	-69	-6	-55	-55	-13	-24	5	-51	-71	-81	16	-12	4	-9	23	67	26	66	-58	-73	-23	-7	-6	10	-13	-50	16	-24	
System Total		14762	14420	14012	13742	13442	13294	13054	13018	12937	12691	12671	12649	12751	12807	12709	12640	13036	14004	14689	15220	15603	15849	16237	16239	16129	15868	15680	15726	15994	16405	16668	16845	16941	16942	16618	16120	15566	15129	15173	15978	16430	16417	16261	16179	15835	15718	15386	15301	
SRev ST-Coal		73	55	64	84	157	174	158	141	135	210	249	240	283	273	31	30	45	43	59	125	83	98	67	75	86	63	78	51	64	46	79	94	97	103	105	96	58	153	157	74	58	120	115	119	112	121	121	109	
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	6	6	9	12	12	103	112	48	17	26	32	34	185	198	356	386	2	0	0	32	3	148	160	0	0	0	0	
SRev CCGT-Gas		544	483	212	425	500	387	413	307	289	384	381	488	412	437	988	1306	1055	334	289	148	235	192	195	303	334	322	290	363	313	203	395	380	356	320	441	451	589	471	345	163	255	400	317	363	416	193	394	387	
SRev ST-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
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
Syncon		1048	1048	1048	1048	1048	1350	1350	976	976	1350	1350	1384	1384	1233	1350	1350	1350	1098	928	626	500	500	313	313	313	464	802	953	802	464	338	338	338	338	338	464	615	953	953	953	126	0	0	151	302	579	1079	1180	1266
Hydro		406	400	396	397	390	139	137	437	455	100	105	105	113	263	147	139	129	232	236	425	245	447	502	509	557	697	522	394	488	428	461	453	458	511	550	333	426	487	481	800	722	729	673	544	378	290	255	218	
S Reserve Total		2071	1986	1720	1954	2095	2050	2058	1861	1855	2044	2085	2217	2192	2206	2516	2825	2579	1707	1512	1324	1166	1343	1083	1209	1302	1558	1795	1873	1715	1158	1299	1297	1283	1457	1788	1851	2412	2096	1949	1195	1101	1287	1441	1527	1553	1687	1956	1982	