

## Daily System Generation Summary on Sunday

Sunday, March 11, 2018

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,802 MW
Hydro	2,472 MW
Distillate	0 MW
Total TNB	<u>5,274 MW</u>
Total IPP	<u>14,387 MW</u>
Total Co-Gen	<u>57 MW</u>
Total System	<u>20,004 MW</u>

### Generation Mix

Type	MWh	Percentage
Gas	39,326	12.31 %
Hydro	9,422	2.95 %
<b>Total TNB</b>	<b>48,748</b>	<b>15.26 %</b>
ST-Coal	188,102	58.89 %
Gas	80,425	25.18 %
<b>Total IPP</b>	<b>268,527</b>	<b>84.07 %</b>
Co-Gen	1,382	0.43 %
<b>Total Co-Gen</b>	<b>1,382</b>	<b>0.43 %</b>
<b>Total Generation</b>	<b>318,657</b>	<b>99.77 %</b>
PLTG	-39	-0.01 %
HVDC	-695	-0.22 %
<b>Interconnection</b>	<b>-734</b>	<b>-0.23 %</b>
<b>Net Energy</b>	<b>319,391</b>	<b>100.00 %</b>

### 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:	21:30:00 Hour
Total Set On Bus	16,395 MW
TNB Generation	2,927 MW
IPP Generation	12,098 MW
Spinning Reserve	1,313 MW
Maximum Demand	15,114 MW
Net Energy	319,391 MWH
Load Factor	88.05 %

### Fuel Cost

Total Cost:	56,950,131.53 RM
Cost per Unit	18.42 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	343
Hydro	286
Syncon	881
Thermal	115
<b>Total</b>	<b>1,625</b>

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	25

### Gas Usage

Station	(mmscfd)
GLGR	43
PGPS	24
TJGS	220
<b>Total TNB</b>	<b>287</b>
KLPP	73
MPSS	30
NPRI	153
PGLA	109
SGRI	100
SKSP	36
YPKA	28
<b>Total IPP</b>	<b>527</b>
<b>Total Gas</b>	<b>814</b>
<b>Total Gas Required</b>	<b>814</b>

### Alternate Fuel Usage

Station	(mmscfd)
<b>Total</b>	<b>0</b>

### 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	14333	13727	13174	12691	12425	12152	12058	11899	11271	11836	12640	13140	13237	13287	13645	13787	13854	13604	13239	13427	14918	15109	15016	14549

### Daily MW Generation on Sunday

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	
JMAH	U001	695	698	695	694	693	694	696	697	694	695	696	697	695	695	695	695	694	698	693	691	693	694	693	694	692
JMAH	U002	694	692	689	695	695	693	693	694	693	696	693	692	689	695	694	694	696	690	695	692	686	694	694	693	693
JMJG	U001	672	666	671	673	671	671	672	672	670	672	671	671	672	671	669	672	657	663	675	671	672	668	669	672	670
JMJG	U002	671	670	671	670	668	667	670	672	669	674	672	671	671	671	675	662	670	673	668	671	669	671	670	671	674
JMJG	U003	665	667	673	665	664	669	669	669	668	667	668	665	667	668	667	671	669	672	664	668	664	670	671	667	667
JMJG	U004	929	899	899	862	850	850	813	785	782	783	782	785	782	785	782	782	804	822	823	853	851	850	850	852	
JMJG	U005	931	900	899	850	848	851	785	778	780	785	780	778	782	780	782	782	780	779	778	782	779	813	822	821	
PKLG	U004	281	280	277	278	278	275	278	278	276	279	280	281	282	278	279	279	282	281	283	282	281	280	282	281	282
PKLG	U005	469	470	464	464	467	469	466	466	465	463	466	468	469	469	468	469	409	357	333	309	342	425	469	467	
PKLG	U006	470	470	470	472	470	470	468	470	469	470	469	469	470	472	468	471	472	470	472	469	470	468	469	470	
TBIN	U003	690	691	693	690	692	691	689	691	690	691	692	689	688	691	693	689	692	692	691	689	691	692	691	690	
TBIN	U004	937	901	903	865	852	852	809	802	802	802	801	803	803	802	801	802	802	823	823	851	852	854	871	872	
Total ST-Coal		8104	8004	8004	7878	7848	7852	7708	7674	7658	7677	7673	7666	7669	7673	7676	7678	7597	7552	7543	7517	7543	7706	7781	7776	
Total ST-Oil		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 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	
GLGR	GT01	104	0	0	0	0	0	0	0	0	0	0	0	0	0	26	31	69	80	106	106	106	106	106	105	
GLGR	GT02	104	103	102	102	103	103	103	103	104	103	103	104	103	105	102	101	94	94	94	85	85	108	107	107	
GLGR	ST1C	95	45	43	43	44	42	44	43	43	43	44	43	44	42	42	41	41	41	40	40	40	41	38		
KLPP	GT13	150	148	138	148	149	96	72	73	72	72	73	74	72	74	72	68	67	69	67	93	146	148	145	147	
KLPP	GT15	148	147	140	148	148	107	72	73	72	72	77	74	73	70	66	70	73	73	151	151	150	150	150		
KLPP	ST17	133	133	135	133	129	111	83	87	84	83	83	83	85	83	79	83	81	87	131	131	133	139	139		
MPSS	GT01	89	89	88	88	90	89	89	89	89	89	89	89	89	88	86	88	89	89	89	90	106	106	106		
MPSS	ST01	38	38	38	37	38	38	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37		
NPRI	BLK1	503	505	504	505	504	506	503	505	502	503	505	505	504	504	505	347	349	304	503	520	502	503	504		
NPRI	BLK2	506	508	506	506	508	507	505	506	505	506	506	506	385	349	306	507	506	503	505	507	505	502	507		
P CGP	PGRG	400	400	398	401	400	402	401	401	400	401	267	269	269	266	257	255	255	314	398	401	400	401	407		
PGLA	GT11	170	209	171	181	174	174	183	170	192	170	168	184	176	176	167	163	164	162	164	205	218	216	216		
PGLA	GT12	174	214	176	185	178	180	188	174	196	172	174	187	181	181	173	168	167	166	167	209	223	222	220		
PGLA	ST10	206	222	215	217	207	216	210	207	218	204	206	206	218	211	205	204	200	202	209	233	228	238	242		
PGPS	GT3A	69	70	70	70	70	70	69	70	69	70	69	70	70	70	94	95	94	94	69	70	95	95	94		
PGPS	ST3C	29	29	29	29	29	29	29	29	29	29	29	29	29	29	30	43	44	45	45	44	31	30	44		
SGRI	GT11	129	133	135	105	104	105	106	106	110	106	106	109	107	111	107	104	107	107	110	111	117	135	134		
SGRI	GT12	131	144	146	110	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SGRI	GT13	127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SGRI	ST14	212	175	149	133	118	66	66	63	63	63	63	64	62	63	63	65	62	64	65	65	64	71	72		
SGRI	GT22	143	133	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SGRI	GT23	141	128	126	131	106	106	107	107	108	108	107	108	108	103	103	104	107	108	115	140	139	139			
SGRI	ST24	147	140	143	91	61	61	60	60	58	58	62	61	58	61	59	59	57	59	58	63	68	68			
SKSP	BLK1	290	345	312	339	301	328	255	108	0	0	0	0	0	0	0	0	0	0	13	191	348	344			
TJGS	GT1A	230	230	231	232	231	230	229	228	228	192	167	230	216	228	191	125	132	178	208	211	220	222			
TJGS	GT1B	219	218	219	219	220	215	217	215	216	184	162	217	211	214	181	118	125	172	207	204	215	215			
TJGS	ST1C	257	257	256	256	256	251	247	246	247	224	207	241	241	243	215	186	171	204	226	246	247	252			
TJGS	GT2A	219	219	220	211	216	213	218	215	220	197	196	144	145	144	144	144	144	208	207	207	206	206			
TJGS	GT2B	223	223	223	216	221	221	222	220	224	198	200	149	149	148	148	148	148	148	148	212	212	211			
TJGS	ST2C	264	264	263	261	261	259	260	257	257	243	244	211	211	211	211	211	211	211	211	253	255	255			
YPKA	GT21	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	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39		



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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																								
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		536	422	581	651	831	801	987	683	952	1005	1081	1120	1094	1230	1705	1714	1260	1096	630	368	229	300	278	684	534	568	415	229	315	312	357	376	327	426	577	964	1122	900	257	225	182	261	263	201	242	397	439	
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
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
Syncon		1200	1351	1351	1351	1351	1351	1351	1351	1351	1351	1351	1200	1049	1351	1351	1351	1435	1350	1350	1012	1163	1163	1164	1164	1164	1013	1015	912	761	912	912	761	761	912	1099	1099	1099	1099	626	626	439	439	626	626	777	777		
Hydro		184	131	144	144	139	136	138	142	129	143	143	124	274	378	142	150	152	153	158	155	131	254	141	100	140	234	173	164	156	215	371	220	282	346	315	187	171	181	175	152	534	423	475	487	471	542	494	497
S.Reserve Total		2201	2284	2451	2530	2708	2528	2672	2741	2440	2704	2761	2825	2860	2783	2982	3463	3545	3085	2995	2443	2163	1784	1698	1760	2106	2026	2013	1692	1489	1552	1552	1594	1690	1526	1597	1788	2325	2482	2268	1617	1477	1350	1303	1313	1411	1542	1846	1778