

#### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,636 MW
Hydro	2,507 MW
Distillate	0 MW
<b>Total TNB</b>	<b>5,143 MW</b>
<b>Total IPP</b>	<b>14,827 MW</b>
<b>Total Co-Gen</b>	<b>57 MW</b>
<b>Total System</b>	<b>20,591 MW</b>

#### Generation Mix

Type	MWh	Percentage
Gas	35,339	11.50 %
Hydro	12,064	3.93 %
<b>Total TNB</b>	<b>47,403</b>	<b>15.43 %</b>
ST-Coal	171,353	55.78 %
Gas	88,969	28.96 %
<b>Total IPP</b>	<b>260,322</b>	<b>84.75 %</b>
Co-Gen	324	0.11 %
<b>Total Co-Gen</b>	<b>324</b>	<b>0.11 %</b>
<b>Total Generation</b>	<b>308,049</b>	<b>100.28 %</b>
PLTG	143	0.05 %
HVDC	728	0.24 %
<b>Interconnection</b>	<b>871</b>	<b>0.28 %</b>
<b>Net Energy</b>	<b>307,178</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:	21:00:00 Hour
Total Set On Bus	15,958 MW
TNB Generation	2,415 MW
IPP Generation	12,065 MW
Spinning Reserve	1,464 MW
Maximum Demand	14,499 MW
Net Energy	307,178 MWH
Load Factor	88.28 %

#### Fuel Cost

Total Cost:	54,940,453.98 RM
Cost per Unit	18.56 cents/kWH

#### Average Spinning Reserve During Peak Hour

Type	MW
GT	320
Hydro	407
Syncon	562
Thermal	113
<b>Total</b>	<b>1,402</b>

#### Time Weather Temperature

Afternoon	Hot	35
Morning	Sunny	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	13501	12914	12427	12021	11701	11461	11527	11388	10868	11633	12281	12923	12983	12876	13169	13327	13497	13212	12974	13268	14444	14499	14207	13975

#### Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	218
<b>Total TNB</b>	<b>247</b>
CBPS	54
KLPP	80
NPRI	154
PGLA	109
PLPS	80
SGRI	39
YPKA	66
<b>Total IPP</b>	<b>582</b>
<b>Total Gas</b>	<b>829</b>

#### Alternate Fuel Usage

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

**Total Gas Required 829**



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
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	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BSIA	HY02	22	23	10	10	10	10	10	10	10	10	10	10	10	10	23	23	23	23	23	23	23	23	23	24
BSIA	HY03	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
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	
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	
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
KNRG	HY01	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KNRG	HY02	35	36	26	26	25	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	
KNRG	HY03	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KNYR	HY01	-1	-1	-1	-1	98	100	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
KNYR	HY02	88	104	73	65	98	100	103	102	101	100	100	60	60	61	59	58	57	60	61	60	60	60	60	
KNYR	HY03	102	103	0	0	99	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KNYR	HY04	0	0	0	0	99	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LPJA	HY01	22	22	22	22	22	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	
LPJA	HY02	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	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
PGAU	HY01	108	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY02	22	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY03	111	24	24	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY04	30	29	29	29	29	29	29	29	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY02	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	34	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY02	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY04	33	0	0	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	
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	
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
UPIA	HY02	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Total Hydro		807	469	267	256	562	572	258	257	255	226	226	186	186	187	184	182	181	186	210	205	188	390	536	
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	
PCUF	CUFG	8	8	8	8	9	9	9	9	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
PCUF	CUFK	5	5	5	5	6	5	5	4	3	6	4	4	6	4	5	5	7	6	5	6	4	7	5	
Total Co-Gen		13	13	13	13	15	14	14	13	10	14	12	13	14	12	14	14	13	17	14	14	14	12	15	
Total Gen		1338	1326	1296	1297	1242	1220	1203	1168	1181	1166	1152	1147	1156	1166	1142	1101	1094	1121	1164	1193	1220	1261	1293	
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	
TIE-HVDC		30	31	31	30	30	30	30	30	30	31	31	31	31	30	30	30	31	31	31	30	30	31	30	
TIE-PLTG		6	4	24	22	-31	29	-21	36	78	-15	31	3	3	60	7	30	44	-15	-23	35	-31	1		
Interconnection		37	35	54	52	-1	59	9	66	109	15	61	34	34	91	38	60	74	15	7	65	-1	32		
System Total		1350	1323	1294	1254	1247	1219	1202	1180	1170	1159	1146	1143	1152	1151	1138	1095	1086	1130	1163	1187	1228	1252		
SRev ST-Coal		69	59	70	73	62	76	68	103	65	115	123	211	233	359	405	450	448	459	448	448	255	154		
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	

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																								
SRev CCGT-Gas		260	204	289	421	489	575	529	694	855	1033	1186	1223	1110	934	1068	1436	1491	1111	821	522	362	428	296	287	315	256	304	241	323	269	326	242	315	269	342	593	887	1187	904	430	393	336	373	379	465	615	320	420
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		44	44	44	44	42	43	43	44	47	43	45	44	43	45	43	43	44	40	43	43	43	45	42	44	46	43	43	47	42	43	44	41	43	43	45	44	42	43	42	43	45	45	43	43	44	45	43	40
Syncon		813	898	1200	1284	1334	1334	1435	1435	1351	1351	1351	1351	1351	1351	1351	1351	1200	1200	1351	1049	813	712	712	712	712	525	439	439	439	439	439	777	777	878	878	964	1126	712	525	523	523	523	523	523	624	624		
Hydro		413	457	252	262	106	96	102	103	105	105	105	145	145	144	147	149	150	145	272	277	143	243	333	417	416	424	420	474	452	365	357	345	331	310	448	376	382	339	329	411	481	418	437	357	486	467	416	458
S.Reserve Total		1599	1662	1855	2864	2033	2124	2177	2379	2507	2647	2810	2974	2882	2833	3014	3429	3484	3106	2784	2490	2154	1919	1621	1590	1575	1600	1611	1416	1395	1250	1297	1196	1255	1536	1738	1992	2313	2712	2574	1659	1521	1391	1464	1375	1584	1710	1463	1610