

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,802 MW
Hydro	2,305 MW
Distillate	0 MW
Total TNB	5,107 MW
Total IPP	15,973 MW
Total Co-Gen	0 MW
Total System	21,652 MW

Maximum Demand Record

Date: 8/15/2018	18,338 MW
Date: 8/15/2018	388,524 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:30:00 Hour
Total Set On Bus	17,198 MW
TNB Generation	2,355 MW
IPP Generation	13,165 MW
Spinning Reserve	1,636 MW
Maximum Demand	15,583 MW
Net Energy	336,917 MWH
Load Factor	90.09 %

Gas Usage

Station	(mmscfd)
GLGR	51
PGPS	27
TJGS	219
Total TNB	296
CBPS	55
KLPP	103
NPRI	158
PGLA	69
PLPS	96
SGB3	37
SGRI	40
SKSP	6
YPKA	80
Total IPP	643
Total Gas	939

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Generation Mix

Type	MWh	Percentage
Gas	41,055	12.19 %
Hydro	7,500	2.23 %
Total TNB	48,555	14.41 %
ST-Coal	189,710	56.31 %
Gas	97,353	28.90 %
Total IPP	287,063	85.20 %
Co-Gen	920	0.27 %
Total Co-Gen	920	0.27 %
Total Generation	336,538	99.89 %
PLTG	321	0.10 %
HVDC	-700	-0.21 %
Interconnection	-379	-0.11 %
Net Energy	336,917	100.00 %

Fuel Cost

Total Cost:	60,009,171.34 RM
Cost per Unit	18.24 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	312
Hydro	263
Syncon	878
Thermal	249
Total	1,702

Total Gas Required 939

Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	28

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	15241	14597	14077	13719	13227	13050	12899	12623	12066	12723	13402	13978	13949	13990	14266	14387	14428	14276	13841	14238	15547	15578	15401	15229

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	
TJGS	GT2A	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	221	
TJGS	GT2B	221	218	219	219	218	221	218	219	219	219	219	219	218	218	219	217	217	220	218	218	219	217	217	219	219
TJGS	ST2C	264	264	264	264	264	264	264	264	264	264	264	263	263	263	263	266	266	266	266	266	266	266	263	263	
YPKA	GT11	129	117	0	0	0	0	0	0	0	0	0	0	0	0	0	91	129	130	131	130	131	132	132	133	
YPKA	GT12	129	129	129	129	128	129	132	130	129	129	129	129	129	66	66	66	65	65	65	65	65	65	65	65	
YPKA	ST10	126	76	59	59	59	60	60	60	59	60	59	59	60	35	35	35	35	35	35	35	35	35	35	35	
YPKA	GT21	125	125	125	125	125	127	127	126	125	125	125	125	65	65	65	64	65	64	65	130	128	127	127	125	
YPKA	ST20	60	61	60	60	60	60	61	61	60	61	61	61	41	39	39	39	39	39	39	39	39	39	39	39	
Total CCGT-Gas		6900	6832	6537	6261	5955	5725	5698	5669	5582	5447	5404	5300	5277	5096	4687	4178	4024	4464	4644	4937	5316	5452	5707	5763	
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	HY02	23	23	23	23	13	13	23	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	
BSIA	HY03	24	24	23	24	23	13	13	24	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CEND	HY01	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
CEND	HY02	8	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
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	
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	-1	
HTRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KNRG	HY01	35	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KNRG	HY02	36	36	27	27	27	27	38	27	27	27	27	26	27	26	27	26	26	27	26	27	27	27	27	27	
KNRG	HY03	36	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KNYR	HY03	56	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
KNYR	HY04	71	73	99	100	73	102	102	102	96	59	84	59	59	56	65	61	60	57	56	56	58	91	59	58	
LPIA	HY01	10	10	11	11	10	10	11	11	10	8	9	9	9	9	10	11	11	13	13	13	13	10	11	9	
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	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	3	3	5	5	2	2	2	2	
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	22	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	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	0	
SIHY	HY03	31	31	51	51	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	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	0	
SYPS	HY03	17	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	17	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	36	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY02	34	34	34	33	33	34	35	34	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY04	33	33	33	33	33	34	34	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
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	
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	
UPIA	HY02	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Total Hydro		483	395	337	338	257	304	270	301	226	174	200	175	174	175	217	183	179	183	177	175	172	280	311	329	
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	19	19	20	20	20	21	21	21	21	20	22	21	21	23	23	23	22	22	22	22	22	21	21	22	
PCUF	CUFK	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
Total Co-Gen		34	34	35	35	35	36	36	36	36	35	37	36	36	38	38	38	38	37	37	37	37	37	37	37	

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 Gen		15202	14890	14547	14265	14031	13823	13642	13439	13237	13057	13032	12902	12877	12860	12588	12162	12020	12487	12695	13023	13441	13676	13959	14086	13962	13847	13919	14108	14268	14396	14370	14436	14440	14504	14269	14123	13839	13929	14207	15052	15506	15562	15579	15530	15387	15421	15213	14978			
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	0	0	0	0
TIE-HVDC		-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-28	-30	-31	-31	-28	-29			
TIE-PLTG		-10	6	-20	22	-16	18	-47	-50	39	-10	10	-26	7	54	-6	36	-16	41	1	17	69	21	10	51	42	27	-42	60	32	10	12	13	41	67	21	79	27	33	-2	-56	-12	9	29	6	17	7	12	11			
Interconnection		-39	-23	-50	-8	-46	-12	-77	-79	10	-39	-18	-55	-22	24	-35	7	-46	12	-28	-13	39	-9	-19	22	13	-2	-71	31	2	-19	-17	-16	12	39	-7	50	-2	4	-31	-85	-41	-21	1	-24	-14	-23	-16	-18			
System Total		15241	14913	14597	14273	14077	13835	13719	13518	13227	13096	13050	12957	12899	12836	12623	12155	12066	12475	12723	13036	13402	13685	13978	14064	13949	13849	13990	14077	14266	14415	14387	14452	14428	14465	14276	14073	13841	13925	14238	15137	15547	15583	15578	15554	15401	15444	15229	14996			
SRev ST-Coal		136	152	143	150	137	163	273	367	407	263	271	272	273	261	308	242	273	278	74	57	285	293	192	287	292	286	290	310	298	287	337	292	318	324	286	319	302	296	297	303	214	153	141	146	149	154	149	165			
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	0	0	0	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		495	353	377	367	523	266	140	97	184	319	362	466	489	670	1079	1588	1742	1302	1122	829	450	467	284	228	335	322	381	444	300	283	256	234	288	283	470	641	1018	1062	848	411	307	306	312	336	382	359	503	647			
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	0	0
SRev Co-Gen		11	11	10	10	10	9	9	9	9	10	8	9	9	7	7	7	8	8	8	8	8	8	9	9	8	8	9	7	7	5	6	6	4	6	6	5	6	3	2	2	3	3	3	3	2	2	1	2			
Syncon		736	837	988	988	988	903	988	988	1074	1074	1074	1074	1074	1074	772	1074	1074	1074	1074	923	923	837	923	923	923	923	923	923	923	923	923	822	822	822	923	1074	1074	1074	1074	1074	802	802	802	802	903	752	903	903			
Hydro		387	324	155	154	185	223	172	141	130	158	132	157	158	157	417	149	153	149	155	158	161	239	172	154	166	155	158	160	156	205	208	410	409	411	415	288	263	286	281	274	366	372	361	381	375	510	254	253			
S.Reserve Total		1765	1677	1673	1669	1843	1564	1582	1602	1804	1824	1847	1978	2003	2169	2583	3060	3249	2811	2433	1975	1827	1844	1580	1601	1724	1694	1761	1844	1684	1703	1730	1764	1841	1846	2100	2327	2663	2721	2502	2064	1692	1636	1619	1668	1811	1777	1810	1970			