

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,802 MW
Hydro	1,878 MW
Distillate	0 MW
Total TNB	4,680 MW
Total IPP	14,662 MW
Total Co-Gen	0 MW
Total System	19,914 MW

Generation Mix

Type	MWh	Percentage
Gas	38,301	12.10 %
Hydro	7,541	2.38 %
Total TNB	45,842	14.49 %
ST-Coal	180,187	56.94 %
Gas	89,520	28.29 %
Total IPP	269,707	85.22 %
Co-Gen	1,035	0.33 %
Total Co-Gen	1,035	0.33 %
Total Generation	316,584	100.04 %
PLTG	-610	-0.19 %
HVDC	727	0.23 %
Interconnection	117	0.04 %
Net Energy	316,467	100.00 %

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:	21:00:00 Hour
Total Set On Bus	16,167 MW
TNB Generation	2,489 MW
IPP Generation	12,296 MW
Spinning Reserve	1,335 MW
Maximum Demand	14,867 MW
Net Energy	316,467 MWH
Load Factor	88.69 %

Fuel Cost

Total Cost:	56,940,840.15 RM
Cost per Unit	18.42 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	455
Hydro	195
Syncon	635
Thermal	195
Total	1,480

Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	48
PGPS	22
TJGS	208
Total TNB	278
CBPS	54
NPRI	150
PGLA	107
PLPS	70
SGRI	138
SKSP	3
YPKA	60
Total IPP	583
Total Gas	862
Total Gas Required	862

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	14194	13589	13189	12752	12421	12189	12058	11947	11355	11989	12737	13207	13342	13216	13548	13606	13376	13168	12955	13362	14710	14867	14485	14073

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		
YPKA	GT11	132	123	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	134	134	134	134	134	66	65	65	65	65	65	66	65	65	65	131	127	127	127	127	125	125	125	125	125	
YPKA	ST10	127	95	60	61	61	61	34	34	34	34	33	34	34	34	34	60	60	60	60	59	59	58	35	34	38	
YPKA	GT21	135	134	134	133	134	133	100	65	65	65	65	65	65	65	65	123	123	123	123	123	123	123	122	122	122	
YPKA	ST20	62	63	62	63	62	63	50	38	37	37	37	37	37	37	37	38	38	53	60	60	60	60	60	60	60	
Total CCGT-Gas		6097	5885	5655	5418	5485	5310	4968	4913	4708	4603	4446	4435	4353	4399	4266	3854	3975	4096	4316	4556	4980	5380	5492	5676	5615	
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	0	
BSIA	HY02	23	12	12	12	12	12	12	12	12	12	12	12	12	12	12	0	0	0	0	0	0	0	0	0	0	
BSIA	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	12	12	12	12	12	12	12	12	
CEND	HY01	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	0	0	0	0	0	0	9	9	9	9	
CEND	HY02	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	9	9	9	9	9	9	9	9	9	9	
CEND	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	9	9	9	9	9	9	9	9	9	9	9	
KNRG	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	0	
KNRG	HY02	26	25	26	25	26	26	26	25	26	26	26	26	25	25	26	26	25	25	25	25	25	25	25	26	25	
KNYR	HY01	61	60	61	60	61	61	61	60	61	60	60	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
KNYR	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	0	
KNYR	HY04	-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	
LPIA	HY01	12	11	11	11	12	12	12	15	15	15	15	15	15	15	15	15	16	15	9	10	11	14	12	12	11	
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	10	
MNOR	HY01	5	5	5	5	2	2	2	2	2	2	2	2	2	2	2	2	2	4	4	5	5	3	3	3	3	
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	-1	
PGAU	HY03	-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	
SIHY	HY01	51	51	50	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	30	30	0	0	0	
SIHY	HY03	51	51	51	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	0	0	0	
SYPS	HY01	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	16	16	0	0	0	
SYPS	HY02	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	16	16	0	0	0	
SYPS	HY03	25	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	HY04	25	0	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	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	-1	
TMGR	HY04	33	33	33	33	33	33	33	29	33	33	33	33	33	33	28	33	33	33	30	32	31	31	31	32	32	
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	-1	
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	7	6	7	7	7	7	7	
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	2	
Total Hydro		394	281	282	281	179	179	179	181	182	176	182	181	180	204	181	181	184	176	181	179	198	197	176	168	170	
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	
PCUF	CUFG	23	24	25	23	27	27	28	28	28	27	27	31	30	29	28	27	27	26	26	27	25	27	27	27	27	
PCUF	CUFG	15	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		38	39	40	38	42	42	43	43	43	42	42	46	45	44	43	42	42	42	41	41	42	40	42	42	42	
Total Gen		14167	13886	13575	13243	13190	13018	12692	12635	12428	12305	12161	12144	12082	12146	11977	11394	11371	11676	12025	12264	12729	13108	13198	13371	13319	
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	
TIE-HVDC		30	30	30	30	31	31	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
TIE-PLTG		-57	-88	-44	-60	-29	-26	-90	-67	-23	24	-58	-22	-6	-21	0	32	-15	46	5	23	-38	20	-39	-2		
Interconnection		-27	-58	-14	-29	1	4	-60	-37	7	54	-28	8	24	9	30	62	16	77	36	54	-8	50	-9	28		
System Total		14194	13944	13589	13272	13189	13014	12752	12672	12421	12251	12189	12136	12058	12137	11947	11332	11355	11599	11989	12210	12737	13058	13207	13343		
SRev ST-Coal		129	86	169	182	187	183	167	170	171	184	180	183	165	168	181	270	326	279	182	182	160	181	182	183		
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		

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		779	775	810	1047	630	805	1147	1202	1407	1512	1669	1680	1762	1716	1849	2261	2140	2019	1799	1559	1135	735	623	439	500	562	625	471	375	324	360	508	482	481	631	676	990	1120	876	390	491	406	375	425	323	458	735	601
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		7	6	5	7	3	3	2	2	2	3	2	2	2	3	3	-1	0	1	2	3	3	3	4	4	3	5	3	3	5	4	3	3	3	3	3	2	2	2	-2	-4	-4	-3	-2	-2	-2	-2	-3	-2
Syncon		761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761
Hydro		140	153	152	153	155	155	155	153	152	158	152	153	154	281	153	153	150	158	153	146	278	279	149	154	152	151	146	149	147	290	259	365	169	167	154	158	159	156	166	186	181	173	172	300	169	102	104	224
S.Reserve Total		1816	1781	1897	2150	1736	1907	2232	2288	2493	2618	2764	2779	2844	2778	2947	3444	3377	3218	2897	2651	2186	1808	1719	1541	1621	1672	1718	1561	1480	1393	1473	1585	1594	1590	1732	1768	2088	2204	1985	1442	1316	1224	1335	1212	1297	1344	1632	1606