

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,636 MW
Hydro	2,502 MW
Distillate	0 MW
Total TNB	5,138 MW
Total IPP	13,557 MW
Total Co-Gen	57 MW
Total System	19,316 MW

Generation Mix

Type	MWh	Percentage
Gas	41,751	12.14 %
Hydro	27,737	8.06 %
Total TNB	69,488	20.20 %
ST-Coal	146,647	42.63 %
Gas	125,535	36.49 %
Total IPP	272,182	79.12 %
Co-Gen	1,033	0.30 %
Total Co-Gen	1,033	0.30 %
Total Generation	342,703	99.62 %
PLTG	-609	-0.18 %
HVDC	-696	-0.20 %
Interconnection	-1,305	-0.38 %
Net Energy	344,008	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	17,353 MW
TNB Generation	3,919 MW
IPP Generation	12,252 MW
Spinning Reserve	1,142 MW
Maximum Demand	16,261 MW
Net Energy	344,008 MWH
Load Factor	88.15 %

Fuel Cost

Total Cost:	58,513,193.26 RM
Cost per Unit	18.57 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	699
Hydro	450
Syncon	241
Thermal	115
Total	1,505

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	30
PGPS	39
SRDG	4
TJGS	224
Total TNB	298

Alternate Fuel Usage

Station	(mmscfd)
Total	0

CBPS	54
KLPP	98
MPSS	48
NPRI	159
PGLA	108
PLPS	88
PTEK	9
SGRI	164
SKSP	53
YPKA	98
Total IPP	878
Total Gas	1,176
Total Gas Required	1,176

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	13846	13281	12545	12303	12020	11863	11999	12251	12574	14193	15125	15603	15714	15430	15799	16077	16192	15922	14866	14861	15811	15432	14990	14553

Daily MW Generation on Wednesday

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																										
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	35	81	81	81	81	79	81	81	81	81	81	81	81	81	81	60	60	59	80	80	79	79	78	77	79	79	79									
TMGR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	81	81	81	79	83	83	83	83	83	83	83	83	83	83	61	61	60	81	81	81	81	81	79	79	81	81	81								
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	88	-1	-1	87	88	88	90	90	90	92	87	-1	-1	-1	-1	182	180	183	183	176	83	-1	-1	-1	-1	-1									
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	86	95	90	92	88	88	90	92	90	92	92	94	88	-1	-1	-1	-1	-1	-1	-1	95	-1	-1	-1	-1	-1	-1									
UPIA	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									
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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7										
Total Hydro		725	599	468	268	203	202	203	203	203	203	223	226	206	200	202	256	800	1036	1127	1323	1650	1874	1957	1786	1782	1942	1955	1960	1961	1961	2019	2014	2007	1643	1243	1103	1185	1881	1884	1919	1949	2019	1930	1640	1430	1287				
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				
PCUF	CUFG	35	37	37	36	36	37	36	37	33	35	36	36	35	36	36	32	32	32	32	32	33	32	33	32	33	32	31	31	32	32	33	33	33	32	33	32	32	33	33	32	33	32	33	33						
PCUF	CUFK	10	10	11	9	11	9	9	9	10	9	10	11	8	10	10	9	10	10	10	8	11	9	9	9	10	10	9	9	9	8	9	9	10	9	9	8	9	8	9	8	9	8	11	0	11					
Total Co-Gen		45	47	48	45	47	46	45	46	43	44	46	47	43	46	46	45	47	46	45	46	42	41	42	42	41	43	42	41	42	42	41	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41				
Total Gen		13818	13473	13212	12808	12475	12417	12242	12154	11952	11851	11802	11838	11937	12038	12154	12256	12501	13459	14148	14765	15016	15381	15546	15762	15685	15442	15357	15594	15801	16118	16045	16032	16117	16211	15887	15435	14838	14714	14813	15772	15736	15580	15359	15235	14971	14774	14507	14199		
TIE-ECAT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		-28	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29				
TIE-PLTC		1	-43	-39	-90	-41	20	-32	-30	-39	-6	-32	-52	-33	-33	-69	-10	-44	-45	-16	-49	-80	5	-27	17	0	-30	-44	-27	32	-33	-3	4	-46	-21	-6	-3	2	-17	-18	-38	-45	-28	-44	-5	9	-61	-17	-14		
Interconnection		-28	-73	-69	-118	-70	-9	-61	-59	-68	-35	-61	-81	-62	-61	-97	-39	-73	-74	-45	-78	-109	-25	-57	-12	-29	-59	-73	-56	2	-61	-32	-25	-75	-50	-35	-33	-28	-46	-48	-67	-75	-57	-73	-33	-19	-90	-46	-42		
System Total		13846	13546	13281	12926	12545	12426	12303	12213	12020	11886	11863	11919	11999	12099	12251	12295	12574	13533	14193	14843	15125	15406	15603	15774	15714	15501	15430	15650	15799	16179	16077	16057	16192	16261	15922	15468	14866	14760	14861	15839	15811	15637	15432	15268	14990	14864	14553	14241		
SRev ST-Coal		115	118	113	110	116	109	116	168	163	154	159	161	158	154	168	156	158	159	168	148	104	100	109	112	125	123	115	117	124	112	115	117	95	113	121	116	87	117	117	120	131	119	111	64	111	101	119	151		
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	
SRev CCGT-Gas		535	460	520	724	916	979	1147	1086	1270	1379	1425	1390	1310	1218	1066	1120	1163	477	554	467	418	310	464	469	616	689	780	700	498	446	597	513	532	419	721	783	953	830	780	640	773	1048	1222	1292	1309	1260	1164	1151		
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
SRev Co-Gen		12	10	9	12	10	11	12	11	14	13	11	10	14	11	11	12	10	11	12	11	15	16	15	15	16	14	15	16	15	15	16	17	16	16	16	15	16	16	16	16	16	16	16	16	15	17	13	25	13	
Syncon		973	1099	1099	1100	1351	1351	1351	1351	1351	1351	1351	1351	1200	1200	1351	1351	1351	1351	928	928	651	525	489	187	0	187	187	0	0	0	0	0	0	0	0	0	374	500	626	626	313	313	187	0	187	187	374	525	651	
Hydro		326	226	231	230	144	145	144	143	144	144	144	144	275	272	141	147	145	153	429	253	439	494	328	446	550	534	538	565	552	547	546	546	488	486	498	483	507	528	446	313	310	401	558	301	390	393	302	169		
S.Reserve Total		1961	1913	1972	2176	2537	2595	2770	2759	2942	3041	3090	3056	2957	2855	2737	2786	2827	2151	2091	1807	1627	1445	1405	1229	1306	1549	1634	1397	1190	1212	1285	1298	1243	1142	1471	1918	2142	2273	2066	1477	1623	1771	1907	1859	2014	2141	2135	2135		