

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,516 MW
Hydro	1,850 MW
Distillate	0 MW
Total TNB	4,366 MW
Total IPP	15,509 MW
Total Co-Gen	60 MW
Total System	20,499 MW

Generation Mix

Type	MWh	Percentage
Gas	38,517	11.20 %
Hydro	16,979	4.94 %
Total TNB	55,496	16.13 %
ST-Coal	199,256	57.92 %
Gas	88,136	25.62 %
Total IPP	287,392	83.54 %
Co-Gen	1,413	0.41 %
Total Co-Gen	1,413	0.41 %
Total Generation	344,301	100.08 %
PLTG	885	0.26 %
HVDC	-609	-0.18 %
Interconnection	276	0.08 %
Net Energy	344,025	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:	15:00:00 Hour
Total Set On Bus	17,898 MW
TNB Generation	3,071 MW
IPP Generation	13,384 MW
Spinning Reserve	1,383 MW
Maximum Demand	16,491 MW
Net Energy	344,025 MWH
Load Factor	86.92 %

Fuel Cost

Total Cost:	57,995,461.93 RM
Cost per Unit	17.71 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	652
Hydro	267
Syncon	560
Thermal	159
Total	1,638

Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	52
SRDG	4
TJGS	218
Total TNB	275

CBPS	57
KLPP	93
MPSS	38
NPRI	77
PDPS	16
PLPS	80
PTEK	3
SGB3	77
SGRI	58
SKSP	33
YPKA	75
Total IPP	606

Total Gas 881

Total Gas Required 881

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	13116	12575	12218	11838	11531	11474	11876	12052	12546	14621	15687	16204	16243	15987	16389	16491	16429	15901	15048	15384	15536	15444	14909	14350

Daily MW Generation on Monday

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	694	691	692	693	692	691	691	693	692	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691
JMAH	U002	697	694	696	694	692	695	696	693	694	693	696	693	695	696	694	695	695	693	693	696	694	693	694	695
JMJG	U002	677	677	682	679	679	677	675	679	676	674	677	691	676	672	674	676	690	673	679	673	678	679	679	677
JMJG	U003	660	672	679	668	668	666	667	671	668	657	668	685	680	651	662	659	666	680	666	662	673	667	668	673
JMJG	U004	852	801	804	782	780	782	783	782	779	782	781	782	780	782	781	782	782	881	881	948	978	980	983	979
JMJG	U005	852	799	800	781	782	782	777	782	779	782	781	783	782	882	881	954	979	980	979	980	982	983	983	981
PKLG	U003	283	218	148	148	149	146	149	147	148	150	151	149	149	149	150	150	150	253	280	283	287	281	282	
PKLG	U005	269	270	269	269	269	271	270	268	271	269	269	269	268	270	270	270	269	270	269	268	281	368	454	
PKLG	U006	468	470	471	468	421	306	269	269	270	269	269	268	269	268	312	432	472	469	470	468	471	470	469	
TBIN	U001	689	690	690	688	689	688	687	689	689	689	691	689	690	687	683	688	689	687	690	688	689	689	687	
TBIN	U002	689	532	618	691	691	692	687	691	688	690	693	691	690	690	690	691	691	692	690	689	693	690	690	
TBIN	U003	690	690	691	691	692	691	693	690	692	691	690	690	693	691	689	691	691	691	691	691	691	691	691	
TBIN	U004	853	802	803	783	783	782	780	782	781	783	781	782	781	879	881	963	984	981	980	981	981	982	982	
Total ST-Coal		8373	8006	8043	8035	7987	7869	7824	7836	7830	7822	7834	7852	7858	7811	7858	7982	8037	8165	8458	8458	8700	8857	8950	
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	
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	
CBPS	BLK2	370	374	372	376	376	370	373	377	365	373	375	373	386	375	378	370	375	370	367	373	367	364	366	
GLGR	GT01	68	70	68	69	69	68	69	67	68	68	69	69	69	69	70	69	96	107	105	106	106	83	73	
GLGR	GT02	70	68	69	68	69	68	68	70	68	69	68	68	98	108	109	109	109	110	83	73	72	72	72	
GLGR	ST1C	71	72	72	71	71	72	72	72	72	71	72	72	72	71	72	86	97	99	99	99	86	76	77	
KLPP	GT13	121	118	109	107	77	72	73	73	70	73	72	73	76	77	74	73	73	143	137	136	111	112	118	
KLPP	GT14	133	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	148	147	150	121	120	129	
KLPP	GT15	128	123	119	119	123	82	85	82	77	85	80	84	83	85	82	79	82	145	145	144	144	116	116	
KLPP	ST17	196	172	128	124	111	103	102	99	98	99	99	99	97	97	99	101	96	153	204	204	206	193	193	
MPSS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MPSS	GT02	0	0	0	0	0	0	0	0	14	31	80	81	81	92	91	93	92	105	105	79	69	71	70	
MPSS	ST01	0	0	0	0	0	0	0	0	0	0	0	31	40	36	39	38	37	42	66	110	111	86	67	
NPRI	BLK1	444	524	499	452	522	506	509	504	490	493	474	493	515	521	478	431	516	443	338	518	484	443	323	
PCGP	PGRG	384	409	396	395	401	396	296	199	197	198	197	199	196	309	298	282	307	402	402	398	398	397	390	
PLPS	GT11	124	132	130	129	131	127	128	128	124	128	129	129	131	133	128	144	147	146	148	146	145	116	115	
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLPS	ST18	56	58	60	58	58	58	56	57	58	58	58	58	58	58	58	58	145	145	141	144	167	197	198	
SGB3	GT31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGB3	GT32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGB3	GT33	102	142	136	106	134	128	142	133	128	131	104	127	144	142	108	147	111	143	132	129	113	112	109	
SGB3	ST34	62	74	73	62	71	70	74	69	69	66	62	70	74	75	67	79	140	148	149	206	210	202	199	
SGRI	GT21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGRI	GT22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGRI	GT23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGRI	ST24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TJGS	GT1A	234	234	208	208	208	208	208	186	186	186	220	234	234	183	183	226	226	226	226	226	226	226	226	
TJGS	GT1B	216	216	216	216	216	216	216	186	186	186	200	212	212	181	181	226	226	226	226	226	226	226	226	
TJGS	ST1C	257	257	242	242	242	242	242	228	228	228	250	257	257	236	236	247	247	247	247	247	247	247	247	
TJGS	GT2A	214	214	214	214	214	214	190	150	150	150	220	218	218	153	153	209	209	209	209	209	209	209	209	
TJGS	GT2B	211	211	211	211	211	211	180	160	160	160	200	219	219	151	151	207	207	207	207	207	207	207	207	

Daily MW Generation on Monday

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																										
PCUF	CUFK	29	31	27	30	31	29	30	28	30	30	31	31	30	31	29	28	29	29	30	28	31	30	29	29	30	30	30	30	29	29	29	29	30	30	30	31	31	30	12	-1	21	30								
Total Co-Gen		59	61	57	60	61	59	60	58	61	59	62	62	61	61	59	58	63	61	62	59	60	59	58	57	59	60	64	63	61	60	60	59	60	60	59	59	58	59	60	61	59	61	61	60	42	31	53	61		
Total Gen		13201	12820	12655	12331	12193	11955	11830	11722	11583	11504	11469	11579	11937	12174	12108	12110	12544	13887	14585	15196	15635	16006	16203	16395	16188	15967	15896	16124	16397	16464	16515	16425	16427	16242	15950	15468	15090	14880	15418	15606	15528	15543	15423	15324	14896	14645	14348	13941		
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		
TIE-HVDC		30	30	31	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-30	-30	-30	-30	-29	-29	-29	-29	-30	-30	-30	-30	-28	-28	-29	-29	-28	-30	-31	-29	-29	-29	-29	-29	-29	-28	-29	-30	-28	-28	-29	-31	-29	-28			
TIE-PLTG		55	-63	49	33	4	43	20	110	80	52	24	27	90	100	85	94	28	34	-7	66	-23	80	29	-27	-24	-3	39	27	37	38	52	76	28	-29	78	141	71	76	64	5	21	-12	7	30	16	59	27	-36		
Interconnection		85	-33	80	5	-25	14	-8	81	52	24	-5	-3	61	71	56	64	-2	4	-36	37	-52	51	-1	-57	-55	-33	11	-1	8	9	24	48	-2	-59	49	111	42	47	34	-23	-8	-43	-21	2	-13	29	-2	-64		
System Total		13116	12853	12575	12326	12218	11941	11838	11641	11531	11480	11474	11582	11876	12103	12052	12046	12546	13883	14621	15159	15687	15955	16204	16452	16243	16000	15987	16125	16389	16455	16491	16377	16429	16301	15901	15357	15048	14833	15384	15629	15536	15586	15444	15322	14909	14616	14350	14005		
S.Rev ST-Coal		421	499	485	443	489	498	508	494	500	513	499	478	476	519	517	494	447	418	421	421	259	188	143	126	123	-40	12	125	117	117	110	111	106	108	104	135	121	108	117	107	111	113	131	119	109	122	109	296		
S.Rev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	-5	-5	-2	0	-1	0	112	-6	65	68	101	276	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S.Rev CCGT-Gas		639	516	470	565	538	636	707	842	966	1200	1389	1227	925	766	870	1329	1032	495	374	797	739	678	703	529	737	631	633	452	560	717	671	737	713	574	649	751	768	973	447	331	403	433	426	499	720	714	826	835		
S.Rev 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
S.Rev Co-Gen		1	-1	3	0	-1	1	0	2	-1	1	-2	-2	-1	-1	1	2	-3	-1	-2	1	0	1	2	3	1	0	-4	-3	-1	0	0	1	0	0	1	1	2	1	0	-1	1	-1	-1	0	15	26	4	-4		
Syncon		710	710	710	710	811	811	811	710	710	710	811	811	811	811	811	811	670	796	626	626	626	626	626	626	626	626	626	626	439	439	313	313	313	313	500	626	710	710	710	710	710	710	710	710	626	626	626	626		
Hydro		225	92	111	135	152	172	182	266	278	253	275	186	135	142	149	171	180	194	123	305	307	308	307	305	306	305	305	303	343	166	167	224	243	238	347	284	390	163	182	162	201	201	265	263	301	421	386	463	380	
S.Reserve Total		1996	1816	1779	1853	1989	2118	2208	2314	2453	2677	2871	2700	2346	2237	2348	2807	2467	1776	1712	2150	1831	1816	1776	1584	1791	1522	1569	1543	1393	1434	1383	1473	1471	1618	1652	1903	1764	1974	1436	1348	1426	1520	1529	1629	1891	1874	2028	2133		