

Daily System Generation Summary on Friday

Friday, November 17, 2017

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,668 MW
Hydro	2,250 MW
Distillate	0 MW
Total TNB	4,918 MW
Total IPP	14,204 MW
Total Co-Gen	0 MW
Total System	19,686 MW

Generation Mix

Type	MWh	Percentage
Gas	46,436	13.36 %
Hydro	18,536	5.33 %
Total TNB	64,972	18.70 %
ST-Coal	185,593	53.41 %
Gas	94,088	27.08 %
Total IPP	279,681	80.49 %
Co-Gen	2,046	0.59 %
Total Co-Gen	2,046	0.59 %
Total Generation	346,699	99.78 %
PLTG	-80	-0.02 %
HVDC	-696	-0.20 %
Interconnection	-776	-0.22 %
Net Energy	347,475	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	17,220 MW
TNB Generation	3,092 MW
IPP Generation	12,891 MW
Spinning Reserve	1,152 MW
Maximum Demand	16,151 MW
Net Energy	347,475 MWH
Load Factor	89.64 %

Fuel Cost

Total Cost:	59,443,623.24 RM
Cost per Unit	18.11 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	349
Hydro	396
Syncon	723
Thermal	138
Total	1,606

Time Weather Temperature

Afternoon	Hot	32
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	13995	13259	12861	12530	12291	12221	12488	12412	12810	14417	15469	15935	15989	15373	15548	16065	16052	15844	14955	15381	15905	15552	15149	14636

Gas Usage

Station	(mmscfd)
CBPS	20
GLGR	53
PAKA	2
PGPS	39
TJGS	222
Total TNB	336
KLPP	102
MPSS	49
NPRI	78
PGLA	23
PLPS	98
SGB3	90
SGRI	69
SKSP	55
YPKA	83
Total IPP	648
Total Gas	984
Total Gas Required	984

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Daily MW Generation on Friday

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	688	693	691	694	693	692	692	692	692	692	692	688	692	690	694	691	692	692	693	694	691	692	692	693	692	691	693	691	693	692	689																								
JMAH	U002	694	692	694	693	694	695	694	693	695	693	694	694	693	693	694	696	695	695	693	693	694	692	693	696	694	693	696	696	695	693																									
JMJC	U002	679	671	670	672	670	671	508	439	590	677	671	673	671	672	668	673	671	668	669	671	673	671	672	673	673	673	673	673	671	668																									
JMJC	U003	667	667	667	670	583	546	496	447	540	596	611	662	670	673	666	668	671	665	673	672	665	664	667	667	669	671	661	668	668	664	666	671	667	655																					
JMJC	U004	887	888	889	834	832	804	785	782	781	783	782	783	783	782	781	782	780	849	889	951	969	975	976	974	973	974	972	973	974	974	975	973	974	976	975	972	975	975	973	975	975	974	974	974	974										
JMJC	U005	883	890	888	833	829	804	783	780	776	782	782	781	773	781	782	777	777	852	881	902	967	980	981	983	980	980	978	981	981	979	978	979	982	981	979	982	979	982	980	979	981	981	981	983											
PKLG	U003	0	0	0	0	0	0	0	14	54	59	74	67	131	188	248	281	279	282	280	283	284	283	283	281	281	283	281	281	278	282	282	281	282	281	281	281	274	283	280	278	276	277	281	279	280	281	282	280							
PKLG	U005	462	470	469	470	469	474	470	468	468	469	470	466	470	469	467	470	472	468	470	469	468	472	474	468	470	465	470	473	470	469	473	471	470	470	472	471	470	471	471	470	470	471	469	469	470	468	467	465							
PKLG	U006	471	472	470	471	472	468	468	468	468	469	469	470	469	472	477	472	472	470	468	470	470	468	471	469	469	472	469	468	469	472	473	468	468	471	470	470	470	470	470	470	470	470	470	470	470	468	469	470	689	689					
TBIN	U001	688	690	689	689	689	689	689	689	689	688	691	687	688	690	687	690	687	689	690	688	688	684	687	689	689	687	683	689	689	689	689	689	688	690	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689						
TBIN	U002	689	690	689	690	692	691	690	693	692	690	691	692	690	689	691	689	690	690	690	690	690	691	690	692	692	689	690	690	689	691	692	693	690	689	691	691	691	690	689	694	690	688	690	690	691	691	691	691	691						
TBIN	U003	690	689	689	689	689	689	689	690	691	690	690	690	689	690	690	688	690	689	690	690	689	690	690	690	689	690	690	689	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690					
Total ST-Coal		7498	7512	7507	7405	7312	7223	6968	6841	7092	7285	7299	7368	7356	7428	7488	7540	7581	7704	7787	7868	7950	7969	7965	7975	7972	7970	7960	7968	7967	7955	7969	7979	7978	7969	7970	7964	7963	7982	7966	7974	7976	7972	7962	7980	7973	7971	7969	7961							
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	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
CBPS	GT1A	87	88	87	87	88	87	87	87	88	87	88	87	88	88	87	87	87	87	87	99	97	97	97	97	97	97	97	98	98	97	97	97	97	97	96	28	0	0	0	0	0	0	0	0	0	0	0	0							
CBPS	ST1C	37	38	37	38	37	37	37	37	38	39	38	39	39	38	38	39	38	38	39	38	40	39	47	47	47	46	46	47	48	48	47	47	47	47	46	0	0	0	0	0	0	0	0	0	0	0	0	0							
GLGR	GT01	67	67	68	68	68	68	67	67	68	69	67	69	67	68	68	70	67	101	101	101	103	103	101	102	102	103	102	104	103	103	104	103	104	104	104	104	103	103	104	104	103	103	104	104	104	104	100	99	100	100	101	101			
GLGR	GT02	68	68	68	69	68	68	68	68	68	68	68	68	68	68	68	68	68	102	104	105	105	106	103	104	105	104	104	104	102	104	104	103	104	104	104	103	103	104	103	103	104	104	103	80	68	68	100	100	100	100	99	100	100	101	101
GLGR	ST1C	71	71	70	71	71	71	71	71	71	71	73	71	70	71	71	88	94	93	94	94	94	95	95	95	95	95	95	95	95	95	94	94	95	94	95	94	95	95	85	85	71	71	91	91	92	92	92	92	92	91	91				
KLPP	CT13	148	113	113	119	120	120	135	141	122	124	120	122	124	140	120	118	122	143	143	141	120	122	118	122	120	119	123	123	141	138	141	141	139	143	130	141	138	140	145	140	140	140	137	141	142	138	133	112							
KLPP	CT14	157	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	142	151	131	133	127	137	129	135	134	135	155	149	154	150	152	154	144	155	154	154	155	156	148	150	150	156	156	149	141	121								
KLPP	GT15	149	116	116	128	122	128	145	148	130	132	124	128	132	149	126	122	123	143	142	147	127	130	123	131	125	132	132	132	147	148	145	145	145	145	142	146	147	147	146	146	142	147	144	147	148	145	138	118							
KLPP	ST17	212	186	150	126	130	130	134	138	126	126	126	126	126	134	126	129	126	134	197	202	198	194	198	198	195	195	202	202	202	202	202	202	202	205	202	202	202	203	203	203	202	200	200	204	204	198	190								
MPSS	GT01	109	109	109	93	91	89	90	89	90	90	89	90	91	89	89	91	88	90	88	109	109	108	108	108	109	109	109	108	107	106	105	106	106	105	106	106	85	70	70	104	107	107	107	107	107	107	107	107	107						
MPSS	CT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
MPSS	ST01	52	52	52	44	41	39	39	39	39	38	39	39	39	40	37	40	39	37	38	41	110	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	92	67	66	100	112	113	113	113	113	113	113	112							
NPRI	BLK1	525	522	521	529	530	527	529	530	527	522	491	521	517	507	464	482	487	487	491	507	506	508	496	502	498	503	504	499	503	506	502	506	502	518	505	503	503	510	512	505	499	503	503	505	503	502	502	500							
PAKA	GT4A	84	85	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
PAKA	GT4B	70	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
PAKA	ST4C	80	49	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
PCGP	PGRG	380	389	389	393	390	396	392	396	398	397	393	394	398	395	386	387	384	383	384	397	395	397	394	402	393	402	395	398	397	396	397	397	394	393	393	394	396	405	411	398	390	397	397	398	402	398	396	395							
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111	178	235	239	242	244	246	243	244	29	31	31	30	218	225	231	232</																							

Daily MW Generation on Friday

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	HY04	59	60	79	72	58	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	97	93	87	92
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	94	102	94	-1	-1	-1
UPIA	HY01	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		876	853	913	878	852	686	712	674	397	420	364	362	340	225	283	307	282	545	566	613	859	828	1044	1033
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	46	45	45	46	44	44	45	45	45	43	45	44	44	44	46	45	45	44	45	45	46	44	44	
PCUF	CUFK	39	40	40	39	42	40	39	42	40	41	40	40	40	40	41	40	42	41	39	40	39	40	41	42
Total Co-Gen		85	85	85	85	86	84	84	87	85	84	85	85	84	85	86	85	85	84	85	86	85	84	85	86
Total Gen		13990	13478	13245	13032	12823	12638	12506	12363	12257	12312	12199	12354	12451	12567	12449	12327	12794	13768	14358	14791	15339	15641	15881	16053
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
TIE-HVDC		-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-27	-30	
TIE-PLTG		24	21	16	-23	-9	-11	5	-6	-5	-3	6	7	-8	35	67	32	13	-3	-30	-57	-102	-41	-25	
Interconnection		-5	-8	-14	-53	-38	-40	-24	-35	-34	-32	-22	-37	6	37	3	-16	-31	-59	-86	-130	-69	-54	-55	
System Total		13995	13486	13259	13085	12861	12678	12530	12398	12291	12344	12221	12376	12488	12561	12412	12324	12810	13799	14417	14877	15469	15710	15935	16108
SRev ST-Coal		277	268	282	267	265	248	125	245	-8	192	183	201	306	241	220	165	268	285	269	227	145	126	130	
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
SRev CCGT-Gas		780	926	796	737	828	756	659	640	718	878	950	862	730	572	809	1007	961	873	563	466	394	477	447	
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
SRev Co-Gen		-28	-28	-28	-28	-29	-27	-27	-30	-28	-27	-28	-27	-28	-29	-26	-30	-28	-26	-27	-28	-30	-28	-27	-28
Syncon		953	953	953	953	802	1037	1037	1125	1226	1075	1075	1075	1226	1226	1226	888	1039	1039	1226	924	1075	1075	949	
Hydro		146	169	109	144	321	167	141	91	167	295	303	305	176	91	133	261	135	297	275	530	133	164	224	
S.Reserve Total		2128	2288	2112	2073	2187	2181	1935	2071	2075	2413	2483	2415	2411	2102	2359	2292	2375	2466	2304	2121	1717	1814	1724	