

Daily System Generation Summary on Saturday

Saturday, December 07, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,217 MW
Distillate	0 MW
Total TNB	2,217 MW
Total IPP	14,673 MW
Total Co-Gen	0 MW
Total System	18,729 MW

Generation Mix

Type	MWh	Percentage
Hydro	20,781	6.13 %
Gas	21,829	6.44 %
Total TNB	42,610	12.57 %
ST-Coal	164,242	48.45 %
LSS	2,087	0.62 %
Gas	127,486	37.61 %
Total IPP	293,815	86.68 %
Co-Gen	1,759	0.52 %
Total Co-Gen	1,759	0.52 %
Total Generation	338,184	99.76 %
PLTG	-100	-0.03 %
HVDC	-697	-0.21 %
Interconnection	-797	-0.24 %
Net Energy	338,981	100.00 %

Maximum Demand Record

Date: 4/18/2019	18,566 MW
Date: 4/18/2019	391,845 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	19:30:00 Hour
Total Set On Bus	16,862 MW
TNB Generation	2,417 MW
IPP Generation	13,121 MW
Spinning Reserve	1,254 MW
Maximum Demand	15,667 MW
Net Energy	338,981 MWH
Load Factor	90.15 %

Fuel Cost

Total Cost:	61,079,379.95 RM
Cost per Unit	18.04 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	737
Hydro	304
Syncon	825
Thermal	134
Total	2,000

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	48
PGPS	3
TJGS	108
Total TNB	159
CBPS	54
KLPP	102
MPSS	29
NPRI	158
PGLA	61
PLPS	95
SGB3	86
SGRI	127
SKSP	50
YPKA	80
Total IPP	841
Total Gas	1,000

Total Gas Required 1,000

Alternate Fuel Usage

Station	(mmcsfd)
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	14615	14014	13504	13122	12818	12695	12602	12500	12382	13520	14355	14832	14709	14410	14847	14839	14885	14733	14449	14857	15515	15240	14959	14667

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, January 03, 2020 9:56:13 AM

(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Saturday

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	692	692	693	692	691	692	694	693	693	692	690	693	691	693	688	692	691	692	691	693	694	691	691	709	692	691	691	690	693		
JMHE	U001	981	981	982	979	978	921	784	781	779	781	781	777	781	783	780	780	778	971	956	956	960	961	958	967	960	959	962	980	981	982	988
JMHE	U002	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
JMJG	U004	980	980	978	982	906	817	787	787	787	788	789	786	790	788	785	789	787	789	785	788	785	788	847	950	977	976	978	979	977		
JMJG	U005	398	397	395	397	399	403	399	400	400	401	403	399	401	401	399	399	399	400	402	399	401	402	399	400	401	401	401	401	400	401	
PKLG	U003	279	281	283	281	284	282	278	282	281	281	282	281	278	283	288	282	277	280	284	284	282	281	279	280	286	282	281	280	283	280	282
PKLG	U004	282	285	280	280	279	279	277	281	280	279	281	282	282	282	281	280	281	280	280	281	279	280	279	280	279	279	280	278	277	279	281
PKLG	U005	467	467	466	466	466	468	467	466	468	466	468	468	468	468	468	466	466	468	468	466	466	466	466	466	466	468	468	466	465	473	474
TBIN	U001	691	688	689	688	689	690	689	686	687	688	687	690	689	689	689	690	689	689	690	689	689	689	689	689	689	689	689	689	689	689	688
TBIN	U002	691	692	691	693	689	695	694	696	691	690	694	694	693	691	698	694	693	697	691	691	692	692	694	693	692	690	695	694	691	691	693
TBIN	U003	690	692	693	691	690	689	688	692	693	683	691	693	688	691	691	688	690	693	692	689	690	696	690	687	689	689	690	692	693	692	689
TBIN	U004	982	979	981	981	903	816	782	782	782	782	785	784	785	783	783	783	782	781	782	782	841	929	963	963	963	961	961	963	964	964	963
Total ST-Coal		7159	7134	7131	7130	6974	6752	6541	6542	6542	6533	6547	6564	6542	6559	6555	6546	6543	6552	6549	6531	6791	6878	6896	6906	6904	6885	6893	6909	6896	6902	6897
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
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
CBPS	BLK2	355	359	353	355	362	356	361	361	349	362	362	357	357	364	356	362	359	363	356	353	348	358	362	362	361	356	359	359	362	359	357
GLGR	GT01	67	68	67	66	67	68	67	68	67	68	69	66	69	67	67	69	69	101	98	100	100	99	99	99	68	66	68	66	67	66	67
GLGR	GT02	68	68	68	68	68	69	68	68	69	68	68	69	68	68	68	68	101	100	101	101	101	101	100	101	68	67	68	68	67	67	68
GLGR	ST1C	71	71	71	70	71	71	71	71	71	70	71	70	71	71	70	71	90	91	91	91	91	91	91	91	79	72	71	72	72	71	71
KLPP	GT13	115	121	114	124	124	124	124	126	118	112	112	112	112	139	140	89	72	107	103	116	120	109	130	130	127	123	127	129	130	129	128
KLPP	GT14	123	132	123	81	0	0	0	0	0	0	0	0	0	0	0	0	68	157	155	130	120	140	140	136	134	135	138	139	140	138	141
KLPP	GT15	126	133	125	142	141	141	142	142	140	127	123	123	154	153	85	114	123	116	124	132	121	140	140	136	135	138	141	141	141	141	141
KLPP	ST17	198	202	198	198	141	141	137	137	138	133	132	132	132	144	143	114	110	130	195	201	205	197	209	209	209	205	209	209	209	208	209
MPSS	GT02	87	87	87	88	88	87	88	91	86	91	89	89	87	89	87	88	89	91	88	89	89	87	88	89	88	87	88	87	90	88	87
MPSS	ST01	37	37	37	37	37	36	38	37	36	37	37	37	37	37	37	37	38	36	40	36	38	38	39	39	39	39	39	39	40	39	40
NPRI	BLK1	506	508	504	503	508	508	507	513	427	529	518	473	502	510	438	507	514	517	505	514	513	511	512	516	515	506	510	515	515	516	507
NPRI	BLK2	507	509	506	506	511	511	518	520	505	520	518	511	508	519	508	511	515	515	502	510	509	508	512	512	512	504	508	512	511	512	506
PCGP	PGRG	598	598	589	587	598	599	600	599	582	605	601	604	588	604	599	604	601	597	596	598	590	596	601	601	585	593	601	603	601	591	602
PGLA	GT12	246	249	247	245	248	249	250	250	248	251	250	251	247	251	252	170	250	250	237	246	243	239	241	240	240	237	235	236	232	233	234
PGLA	ST10	113	114	113	113	113	112	113	113	113	112	113	113	114	114	114	95	115	115	110	115	112	113	114	115	114	114	114	114	112	114	113
PGPS	GT3B	70	98	97	94	71	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGPS	ST3C	31	45	46	46	31	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT11	111	116	111	114	130	131	130	130	111	69	69	65	69	69	68	68	85	113	111	115	123	112	129	131	129	121	127	135	135	130	123
PLPS	GT12	117	119	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	153	128	116	133	134	132	127	131	139	138	135	127	135
PLPS	GT13	108	113	109	109	126	126	127	127	108	112	64	60	64	64	63	64	64	112	108	112	120	108	126	126	126	118	125	131	129	126	119
PLPS	ST18	195	197	197	133	141	141	140	140	133	123	93	91	91	91	91	91	91	133	131	206	208	196	207	209	205	206	209	208	207	207	206
SGB3	GT31	118	114	110	110	130	130	130	105	101	66	66	65	65	66	66	65	65	66	99	109	112	114	121	137	117	114	120	124	137	135	130
SGB3	GT32	117	121	117	117	136	136	139	112	109	72	72	73	73	73	73	73	73	72	107	114	115	117	124	140	122	117	122	127	140	138	134
SGB3	GT33	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	112	116	122	139	118	114	119	122	137	138	132	136	110
SGB3	ST34	206	165	136	138	149	148	148	133	133	108	104	101	100	101	101	101	101	128	136	206	202	214	218	206	206	206	206	206	215	220	220
SGRI	GT11	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
SGRI	GT12	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	120	136	136	136	136	110	110	110	110	70
SGRI	ST14	127	80	61	59	58	58	57	58	59	59	59	58	58	58	58	57	58	58	57	59	136	133	134	135	135	129	127	127	127	126	97
SGRI	GT21	113	112	133	134	134	135	135	108	105	71	68	68	69	68	70	70	73	104	109	105	108	108	130	112	120	120	125	132	132	125	109
SGRI	GT22	116	114	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	141	138	138	115	123	125	131	139	137	129
SGRI	GT23	114	114	149	148	148	146	146	110	107	75	72	70	70	71	71	70	74	108	110	107	110	111	135	113	120	124	127	136	135	129	111
SGRI	ST24	191	196	183	146	146	146	126	127	106	93	96	93	93	90	94	92	97	122	126	127	191	196	209	195	198	194	210	208	206	203	

Daily MW Generation on Saturday

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 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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SLS	LSS1	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 LSS		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	31	30	31	31	37	36	36	38	35	36	36	37	37	36	35	36	35	36	37	37	35	37	35	34
PCUF	CUFK	35	36	37	37	38	38	39	41	39	38	39	39	39	40	40	38	40	40	40	39	38	38	37	36
Total Co-Gen		66	66	68	68	75	74	75	79	74	74	75	76	76	77	76	75	74	75	78	76	75	76	75	74
Total Gen		14558	14209	13972	13589	13470	13211	13080	12881	12775	12722	12656	12544	12606	12666	12458	12255	12363	12949	13494	13905	14288	14512	14776	14865
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	-29	-29	-29	-29	-29	-29	-29	-29	-28	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		-16	19	-1	1	7	6	-1	11	-2	-23	2	-2	46	-1	-1	-2	22	-13	16	-5	-26	0	-15	-47
Interconnection		-45	-10	-30	-28	-22	-24	-30	-18	-31	-52	-27	-30	16	-31	-30	-31	-7	-42	-14	-34	-55	-29	-44	-77
System Total		14615	14231	14014	13629	13504	13247	13122	12911	12818	12786	12695	12586	12602	12709	12500	12298	12382	13003	13520	13951	14355	14553	14832	14954
SRev ST-Coal		134	109	112	113	263	313	346	340	346	353	340	334	343	327	330	340	346	328	337	241	173	145	127	117
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		1001	1045	1146	1027	610	645	460	664	891	935	1016	1144	1062	1019	1222	1444	1335	1192	842	650	863	870	580	427
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 LSS		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		9	9	7	7	0	1	0	-4	1	1	0	-1	-1	-2	-1	0	-2	-1	0	1	0	-3	-1	0
Syncon		1001	1001	1001	1001	1001	1001	1127	1127	850	1001	1001	1001	1001	1001	850	1001	850	1001	1001	827	827	953	1165	1165
Hydro		130	129	131	131	130	131	125	125	276	125	125	127	125	126	126	254	124	245	143	127	273	389	324	211
S.Reserve Total		2275	2293	2397	2279	2004	2091	2058	2252	2364	2415	2482	2605	2530	2471	2678	2888	2804	2614	2323	2020	2136	2228	1983	1920