

Daily System Generation Summary on Saturday

Saturday, November 09, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,235 MW
Distillate	0 MW
Total TNB	2,235 MW
Total IPP	15,269 MW
Total Co-Gen	65 MW
Total System	19,388 MW

Generation Mix

Type	MWh	Percentage
Hydro	11,792	3.57 %
Gas	28,183	8.52 %
Total TNB	39,975	12.09 %
ST-Coal	185,740	56.16 %
ST-Gas	23	0.01 %
LSS	2,238	0.68 %
Gas	102,361	30.95 %
Total IPP	290,362	87.80 %
Co-Gen	990	0.30 %
Total Co-Gen	990	0.30 %
Total Generation	331,327	100.18 %
PLTG	-78	-0.02 %
HVDC	685	0.21 %
Interconnection	607	0.18 %
Net Energy	330,720	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	17,117 MW
TNB Generation	2,057 MW
IPP Generation	13,486 MW
Spinning Reserve	1,531 MW
Maximum Demand	15,578 MW
Net Energy	330,720 MWH
Load Factor	88.46 %

Fuel Cost

Total Cost:	59,780,366.00 RM
Cost per Unit	18.04 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	340
Hydro	326
Syncon	995
Thermal	348
Total	2,009

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
PGPS	30
SRDG	3
TJGS	165
Total TNB	198
CBPS	54
KLPP	89
MPSS	36
NPRI	75
PGLA	114
PLPS	62
PTEK	3
SGB3	77
SGRI	31
SKSP	52
YPKA	56
PKLG	0
Total IPP	651
Total Gas	848

Total Gas Required 848

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	14202	13617	13169	12691	12369	12241	12218	11980	11733	12750	13488	14147	14129	13986	14405	14647	14681	14382	14209	14840	15487	15318	14992	14736

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, December 05, 2019 8:31:22 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	693	694	691	693	691	694	692	691	692	689	693	692	693	691	692	692	682	689	693	694	692	692	695	693	693	693	687	694	692	687	693	693		
JMAH	U002	694	470	283	209	204	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
JMHE	U001	982	984	981	983	980	818	778	779	778	776	784	780	781	783	778	778	775	785	850	854	901	900	904	899	898	897	896	897	901	898	897	900	900	
JMJG	U003	673	666	671	669	664	672	668	670	669	668	669	667	671	671	668	664	668	670	672	667	672	668	671	671	667	671	665	668	668	666	667	668	666	
JMJG	U004	961	961	962	963	961	921	834	785	786	785	785	783	785	785	783	786	786	785	852	849	884	899	898	900	897	898	898	899	898	900	897	899	899	
JMJG	U005	976	976	975	980	980	917	774	778	783	785	783	782	781	782	778	782	780	782	844	850	883	901	901	900	898	902	900	899	900	900	902	902	902	
PKLG	U004	281	281	280	277	280	280	277	279	280	284	282	281	282	281	280	279	282	278	280	280	282	282	278	279	278	279	277	282	280	280	278	276	279	
PKLG	U005	466	468	465	464	468	468	466	464	464	466	468	466	471	467	467	467	466	464	467	467	466	468	466	469	468	468	466	468	468	465	466	468	469	
TBIN	U001	691	684	689	689	689	688	687	689	690	687	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	
TBIN	U002	689	694	691	693	686	693	691	691	693	689	686	708	697	688	689	691	688	693	690	692	689	690	694	693	687	690	690	692	690	692	690	689	691	
TBIN	U003	693	691	690	692	691	694	690	691	691	690	693	692	690	693	691	690	692	692	690	693	693	692	692	692	693	692	692	693	692	691	691	692	691	
TBIN	U004	982	982	982	983	982	938	850	784	783	784	781	782	783	782	782	782	783	782	852	852	879	902	903	903	902	903	902	904	902	904	903	902	904	
Total ST-Coal		8781	8551	8360	8295	8276	7812	7407	7301	7309	7303	7313	7322	7321	7312	7293	7298	7301	7316	7579	7587	7729	7784	7793	7789	7768	7782	7767	7776	7777	7779	7782	7769	7771	
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	
PKLG	U001	46	0	0	0	0	0	0	0	0	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		46	0	0	0	0	0	0	0	0	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	354	362	364	362	364	371	362	363	362	350	366	359	358	365	362	350	283	370	360	370	356	359	365	358	359	357	359	359	363	363	363	360	360	
KLPP	GT13	108	132	128	125	127	130	128	130	130	130	118	118	118	118	119	113	127	121	134	140	138	134	139	128	122	134	132	134	134	134	134	135	128	
KLPP	GT14	122	142	139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	121	145	151	142	138	149	154	154	154	155	152	152	154	142	
KLPP	GT15	125	145	138	138	57	0	0	0	0	0	0	0	0	0	0	32	109	152	153	153	145	150	141	137	150	153	153	154	154	154	155	143	155	
KLPP	ST17	186	206	198	158	109	53	55	55	52	52	49	49	50	51	51	53	53	112	129	133	198	202	202	194	198	202	198	201	201	201	204	201	204	
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	0	0	0	0	0	0	0	0	0	0	
MPSS	GT02	88	87	88	89	89	91	87	107	107	86	90	88	88	87	86	88	87	89	87	90	105	105	106	104	104	87	87	87	89	104	103	104	104	
MPSS	ST01	36	38	38	37	38	39	38	51	51	39	37	37	37	37	37	37	38	36	37	50	51	51	51	51	38	39	40	38	50	50	51	51		
NPRI	BLK1	545	206	350	314	351	355	357	116	224	537	538	533	532	532	530	534	511	529	515	525	508	511	516	511	507	503	507	509	515	517	514	515	517	
PCGP	PGRG	576	599	600	604	603	637	603	602	590	566	613	604	602	602	598	603	589	634	602	628	589	595	603	598	590	578	586	587	603	611	601	602		
PGLA	GT11	166	197	184	201	205	235	235	232	227	197	195	209	210	166	172	178	219	192	219	187	195	190	218	217	212	214	215	217	219	218	218	219	220	
PGLA	GT12	180	211	198	216	222	247	250	250	248	244	213	212	226	224	182	189	192	236	209	236	204	211	207	235	228	228	229	230	233	234	233	235	229	
PGLA	ST10	201	233	214	230	228	257	257	257	254	254	222	227	229	231	205	206	225	241	210	238	231	233	228	247	244	242	244	245	246	246	246	246	246	
PGPS	GT3A	0	0	0	0	0	0	0	0	0	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	GT3B	71	71	72	72	71	73	72	94	94	71	72	71	71	71	72	71	73	72	73	90	89	89	89	89	71	70	71	71	88	89	89	89	88	
PGPS	ST3C	31	31	31	31	31	32	31	44	44	31	31	31	31	31	31	31	31	31	32	41	42	42	43	43	33	32	32	32	43	43	42	41	41	
PLPS	GT12	116	119	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	150	148	146	134	117	146	148	148	148	148	147	148	150	
PLPS	GT13	104	108	108	117	120	126	119	119	119	115	122	119	123	124	125	125	124	129	124	128	136	138	139	137	135	145	140	136	136	136	135	138	133	
PLPS	ST18	130	133	132	62	58	60	59	58	58	58	58	58	58	59	59	59	58	59	60	60	60	58	146	146	144	145	144	144	145	144	145	144	144	145
SGB3	GT31	105	108	111	111	111	115	110	112	110	106	113	108	111	111	111	114	120	114	118	140	140	139	139	111	105	121	118	125	128	138	136	119	137	
SGB3	GT32	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	116	108	125	125	130	134	142	140	125	142	112	
SGB3	GT33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	141	139	113	107	124	124	127	130	142	138	122	143	111	
SGB3	ST34	130	65	65	65	65	65	64	64	64	64	65	65	65	65	65	65	65	65	65	72	77	149	152	204	197	208	205	205	212	221	219	211	215	
SGRI	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	30	31	34	35	35	35	35	50	135	132	133	133	134	133	
SGRI	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	107	134	132	134	135	
SGRI	ST14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	64	61	108	140	142	140	
SKSP	BLK1	223	303	261	289	302	328	329	311	235	217	270	270	271	323	218	229	245	329	234	279	281	248	219	327	234	290	324	329	331	305	307	303	306	
TJGS	GT1A	220	221	220	221	220	229	220	219	224	208	230	225	222	223	202	178	228	232	225	226	221	224	223	221	222	221	222	222	220	221	222	223	224	
TJGS	GT1B	216	215	214	214	219	220	213	212	215	203	216	217	215	216	192	170	218	222	220	219	215	219	219	217	215	216	216	216	218					

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
TJGS	ST2C	124	124	124	124	124	124	124	121	121	121	121	121	123	123	123	123	122	122	122	122	122	122	122	122
YPKA	GT12	67	67	67	67	72	67	138	137	132	68	66	66	66	66	89	129	133	127	127	128	127	127	128	128
YPKA	ST10	32	32	32	32	34	33	59	59	58	33	32	32	32	32	37	56	58	56	55	56	58	57	58	58
YPKA	GT21	64	65	65	65	65	65	135	136	136	66	65	65	65	65	86	125	128	124	124	125	124	123	124	123
YPKA	ST20	37	37	37	38	37	37	38	62	63	62	37	36	36	36	36	41	57	59	57	58	58	58	58	57
Total CCGT-Gas		4901	4716	4757	4441	4374	4458	4380	4381	4390	4528	4405	4366	4397	4464	4190	4106	4143	4674	4655	4953	4921	5208	5536	5768
PTEK	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRDG	GT04	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 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
BSIA	HY01	11	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	0	10	11	11	11	13	12	12	12	11	12	12	12	12	11	12	11	11	11	11	11	11	11	11
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY02	10	9	9	10	10	10	10	9	10	10	10	10	10	10	9	9	9	9	9	10	10	10	9	9
CEND	HY03	10	10	10	9	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	9	9	9	10	9
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
HTRG	HY01	-1	-1	-1	-1	-1	-1	64	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
HTRG	HY02	-1	-1	-1	-1	-1	-1	64	64	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
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
KNRG	HY02	37	38	38	38	38	38	38	38	38	38	38	38	38	38	38	0	0	0	0	0	0	0	0	0
KNRG	HY03	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	HY02	96	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
KNYR	HY03	95	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
KNYR	HY04	95	100	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
LPIA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	15	15	10	10	10	13	15	15	15
LPIA	HY02	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	15	10	10	10	10	10	10	12	12
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5	5	6	6	6	6	6	6	6
PGAU	HY01	-1	-1	-1	-1	-1	19	-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
PGAU	HY04	5	5	5	4	4	5	5	5	5	4	5	4	4	4	5	4	5	5	4	4	4	4	4	4
SIHY	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
SIHY	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
SYPS	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
SYPS	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
SYPS	HY03	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	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	80	79	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY03	-1	-1	-1	-1	-1	-1	81	81	26	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY04	30	33	33	33	33	35	81	81	81	27	31	31	31	31	31	31	31	31	31	31	31	31	31	31
UJLI	HY01	-1	-1	-1	-1	-1	44	183	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY02	-1	-1	-1	-1	-1	21	99	100	-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	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		451	465	465	464	465	557	880	907	661	482	484	464	464	464	250	227	233	348	355	570	628	491	431	430
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

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
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
SSLS	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	22	25	23	24	24	26	25	26	25	26	25	26	24	27	26	25	26	24	24	26	27	27	26	25
PCUF	CUFK	16	18	16	18	17	16	16	17	15	17	16	16	17	16	17	16	18	15	15	16	17	16	16	15
Total Co-Gen		38	43	39	42	41	42	41	43	40	42	42	41	43	41	43	40	45	42	41	43	44	42	43	41
Total Gen		14217	13775	13621	13242	13156	12869	12708	12632	12400	12355	12244	12193	12225	12281	11990	11704	11753	12334	12749	13115	13499	13894	14124	14305
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		30	30	30	30	31	31	31	29	29	31	31	29	29	31	29	29	30	30	30	29	29	29	30	30
TIE-PLTG		-7	-27	-18	-43	-38	-58	-7	-9	9	46	-20	-37	-14	7	-12	-28	-2	-84	-23	-62	-11	-39	-45	0
Interconnection		22	3	11	-13	-6	-27	24	20	38	78	11	-8	15	36	17	3	27	-53	6	-31	18	-10	-16	30
System Total		14202	13779	13617	13262	13169	12903	12691	12619	12369	12284	12241	12209	12218	12253	11980	11708	11733	12394	12750	13153	13488	13911	14147	14282
SRev ST-Coal		118	128	319	154	173	555	463	460	456	456	453	441	444	459	465	472	456	454	454	453	432	415	406	408
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		942	914	873	893	886	577	583	582	573	435	558	597	566	499	773	857	820	299	486	261	446	521	341	258
SRev ST-Gas		27	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		27	22	26	23	24	23	24	22	25	23	23	24	22	24	22	23	25	20	23	24	22	25	26	26
Syncon		1100	1100	1100	1100	1100	575	640	489	888	1014	949	1100	1100	1100	1050	1201	1201	1100	1100	974	787	949	1100	1100
Hydro		250	236	236	237	236	669	281	405	252	305	367	236	236	236	237	401	273	267	353	346	246	425	400	269
S.Reserve Total		2464	2400	2554	2407	2419	2399	1991	1958	2194	2233	2350	2398	2368	2318	2597	2802	2773	2246	2413	2183	2127	2175	2126	2066