

Daily System Generation Summary on Saturday

Saturday, September 28, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,339 MW
Distillate	0 MW
Total TNB	2,339 MW
Total IPP	14,740 MW
Total Co-Gen	70 MW
Total System	19,897 MW

Generation Mix

Type	MWh	Percentage
Hydro	10,437	3.03 %
Gas	43,030	12.51 %
Total TNB	53,467	15.55 %
ST-Coal	186,836	54.33 %
LSS	2,217	0.64 %
Gas	100,357	29.18 %
Total IPP	289,410	84.15 %
Co-Gen	1,485	0.43 %
Total Co-Gen	1,485	0.43 %
Total Generation	344,362	100.13 %
PLTG	-269	-0.08 %
HVDC	727	0.21 %
Interconnection	458	0.13 %
Net Energy	343,904	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	17,390 MW
TNB Generation	2,798 MW
IPP Generation	12,930 MW
Spinning Reserve	1,601 MW
Maximum Demand	15,798 MW
Net Energy	343,904 MWH
Load Factor	90.70 %

Fuel Cost

Total Cost:	65,722,780.34 RM
Cost per Unit	19.06 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	431
Hydro	325
Syncon	866
Thermal	249
Total	1,871

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	53
PAKA	2
PGPS	37
TJGS	217
Total TNB	309
CBPS	54
KLPP	93
MPSS	1
PGLA	109
PLPS	86
SGB3	90
SGRI	88
SKSP	52
YPKA	82
Total IPP	654
Total Gas	963

Total Gas Required 963

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	14557	13933	13519	13045	12791	12544	12719	12526	12353	13547	14464	15164	15144	14834	15300	15473	15424	15142	14670	14946	15739	15677	15266	15005

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, October 11, 2019 11:16:49 AM
(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Saturday

		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		582	580	584	582	581	582	592	654	653	652	652	654	651	651	653	649	652	691	692	685	694	693	694	693	693	693	691	693	693	692	693	692	693	695	692	693	692	692	693	692	693	692	693	692	691			
JMAH	U002		584	584	584	584	584	584	589	655	655	654	654	656	654	654	654	654	696	698	694	696	695	693	694	696	697	693	694	697	693	696	693	694	696	694	694	696	696	694	696	692	694	689	700	694	695	694	697	
JMHE	U001		982	976	978	988	981	916	776	781	780	774	783	779	780	778	779	781	784	780	778	779	966	959	961	960	960	963	956	959	962	962	961	959	960	961	962	961	962	960	982	980	980	968	981	982	974	979	979	982
JMHE	U002		751	748	751	755	751	750	745	749	751	742	751	749	749	748	750	748	500	292	325	300	302	299	300	298	226	222	0	88	225	0	0	150	376	313	502	499	499	500	500	502	493	500	499	495	500	501	501	
JMJG	U001		638	632	637	633	637	640	635	635	634	638	634	636	639	639	637	639	634	639	637	634	630	637	638	637	634	637	645	645	647	641	640	638	643	637	640	641	634	634	643	634	640	634	631	632	637			
JMJG	U003		664	661	662	660	655	662	664	662	663	661	662	662	664	661	662	666	664	660	662	662	666	663	664	666	662	662	662	662	662	662	662	668	660	665	661	662	660	660	665	665	662	667	662	662	660	663	666	
JMJG	U004		973	975	976	908	821	781	785	781	782	782	782	782	780	782	783	780	782	782	781	782	906	958	958	960	959	955	954	955	956	956	958	956	956	955	956	956	955	957	968	976	976	977	977	976	976	978	977	977
JMJG	U005		980	977	977	876	774	782	780	782	778	782	777	781	783	779	782	780	780	777	778	782	891	969	962	956	959	963	960	956	963	959	963	960	958	958	962	961	961	960	977	980	983	974	979	972	982	977	983	981
PKLG	U003		282	283	283	283	281	280	281	282	283	282	282	282	283	285	286	282	284	283	285	284	280	282	280	284	284	280	281	280	275	274	283	284	277	282	281	282	282	281	282	275	280	280	281	284	283	279	283	
PKLG	U004		282	282	282	281	280	280	281	276	281	283	282	281	281	280	280	281	281	280	281	280	281	280	281	280	281	280	281	280	283	279	279	279	279	279	279	279	280	281	281	279	280	281	281	284	280	281	281	
PKLG	U005		472	471	471	470	471	471	469	470	470	469	470	470	471	468	480	470	471	470	470	468	470	469	469	471	472	470	469	470	469	472	470	470	470	470	467	469	470	470	467	469	469	470	470	468	470	470	469	
TBIN	U004		981	983	982	981	906	817	783	783	784	782	781	781	782	782	782	781	782	783	784	782	865	951	962	962	962	963	962	962	962	962	963	962	961	963	962	961	962	983	982	982	982	982	982	982	983	983	983	983
Total ST-Coal			8171	8152	8167	8001	7722	7545	7380	7510	7514	7500	7510	7513	7514	7509	7520	7509	7527	7337	7139	7161	7649	7861	7860	7863	7861	7789	7766	7548	7653	7784	7574	7563	7707	7928	7882	8056	8061	8065	8122	8138	8129	8114	8133	8137	8122	8129	8134	8148
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
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
CBPS	BLK2		359	358	359	361	357	363	360	360	363	356	361	357	357	361	362	362	357	365	355	365	354	362	362	357	362	363	355	363	359	358	363	364	363	364	362	366	358	362	357	365	359	360	365	359	362	365	362	358
GLGR	GT01		86	86	86	69	70	68	68	68	68	68	68	78	98	67	69	70	70	105	104	91	68	75	100	88	68	68	78	100	100	101	99	99	101	100	100	99	100	101	102	101	100	101	100	101	101	101	101	101
GLGR	GT02		85	85	84	68	68	69	68	68	68	68	68	77	97	67	68	69	68	103	103	90	68	75	100	87	67	68	79	99	100	100	99	99	100	99	99	101	102	101	101	101	101	101	101	101	101	101	101	
GLGR	ST1C		81	82	81	70	70	71	70	70	70	70	70	89	71	70	70	70	90	92	88	71	71	90	87	71	71	72	90	90	90	90	90	90	90	91	92	89	89	90	89	89	89	90	89	89	89	90	89	90
KLPP	GT13		122	108	109	109	107	109	107	107	109	107	70	70	70	74	71	71	70	133	133	132	138	117	131	133	130	119	114	134	134	133	133	132	134	133	135	115	114	117	113	124	121	133	122	134	120	134	134	133
KLPP	GT14		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	100	150	150	128	142	143	141	128	122	148	152	143	143	152	152	147	144	124	123	127	123	136	131	145	135	151	129	152	152	143	
KLPP	GT15		137	119	118	116	117	117	117	117	117	117	80	81	79	85	80	80	78	147	144	153	148	125	141	140	141	125	125	149	150	143	142	149	150	145	146	123	123	127	123	131	131	148	129	152	133	154	151	148
KLPP	ST17		116	112	113	113	114	114	113	116	115	116	87	83	81	81	83	78	86	127	184	196	196	184	200	196	196	187	187	196	196	192	196	196	196	192	196	184	184	184	187	192	192	196	187	196	192	196	196	196
MPSS	GT02		88	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		37	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	GT4A		84	85	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		75	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		78	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		590	604	602	600	603	601	597	599	603	589	603	598	600	602	598	599	601	607	594	606	590	601	603	601	602	602	591	605	601	596	603	602	599	601	602	603	600	603	596	601	598	600	602	603	592	601	604	601
PGLA	GT11		219	165	181	195	209	204	195	212	171	164	170	203	210	188	208	164	199	216	205	214	166	211	209	214	212	211	204	213	214	208	205	213	214	214	210	207	186	192	166	216	211	207	214	214	194	214	214	200
PGLA	GT12		227	173	190	202	218	212	202	218	178	170	179	212	218	198	215	172	207	224	214	222	174	218	216	220	220	219	212	220	221	215	214	221	221	221	218	214	192	199	171	222	218	212	222	219	200	222	222	208
PGLA	ST10		241	205	210	230	228	230	230	234	207	207	204	239	234	215	221	207	223	237	232	239	206	239	241	239	239	239	230	241	241	234	239	241	241	238	238	238	225	224	217	236	236	238	236	236	234	238	238	238
PGPS	GT3A		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
SGRI	GT21	58	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	59	56	57	56	58	56	57	60	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	ST24	0	0	0	0	0	0	0	38	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKSP	BLK1	220	218	220	233	229	235	231	270	236	220	220	319	266	261	270	217	218	287	319	330	292	328	330	329
TJGS	GT1A	220	218	220	223	217	220	223	211	222	191	147	210	214	222	213	139	206	216	215	226	223	225	221	226
TJGS	GT1B	215	209	214	211	210	215	212	206	214	181	139	205	207	211	203	132	196	209	205	214	211	214	216	215
TJGS	ST1C	239	235	235	235	235	235	235	233	226	218	182	235	232	231	235	189	224	232	230	246	242	248	248	248
TJGS	GT2A	216	216	215	215	215	213	213	213	213	213	213	213	213	213	213	214	214	214	214	214	214	214	213	213
TJGS	GT2B	209	209	210	209	209	209	209	209	209	209	209	208	208	208	208	208	208	208	208	208	209	209	207	207
TJGS	ST2C	260	258	258	258	258	258	258	258	260	260	260	260	260	260	260	260	260	262	262	262	262	262	262	261
YPKA	GT11	114	114	5	0	0	0	0	0	0	0	0	0	0	0	0	110	123	120	120	109	123	123	124	124
YPKA	GT12	123	124	124	124	124	124	123	123	124	122	124	70	106	106	67	68	67	69	137	137	136	134	131	132
YPKA	ST10	116	110	55	54	55	55	54	54	55	54	55	35	45	50	36	33	33	33	106	123	122	122	110	124
YPKA	GT21	100	105	105	105	105	105	104	104	105	102	105	65	105	105	64	65	65	66	121	124	65	65	111	123
YPKA	ST20	49	48	48	48	48	48	47	48	48	48	48	37	48	48	37	36	37	57	58	40	37	46	59	59
Total CCGT-Gas		5971	5681	5351	5274	5334	5353	5261	4955	4827	4725	4594	4693	4758	4793	4631	4281	4527	5367	6067	6436	6329	6540	6686	6800
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	HY02	12	12	12	12	12	12	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
CEND	HY01	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
CEND	HY03	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNRG	HY01	24	24	24	24	24	25	24	24	24	24	24	24	24	25	24	24	24	24	24	24	24	25	24	24
KNYR	HY02	95	95	95	95	95	95	95	95	95	95	95	95	94	57	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	HY03	96	96	96	96	96	96	96	96	96	96	96	96	96	56	56	56	56	56	56	56	55	56	55	56
KNYR	HY04	96	96	96	96	96	96	96	96	96	96	96	96	96	0	0	0	0	0	0	0	0	0	0	0
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
PGAU	HY01	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY04	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
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
SIHY	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	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	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
TMGR	HY04	30	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UPIA	HY01	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		375	377	377	377	396	378	378	377	378	377	398	377	378	377	398	203	146	145	145	144	145	164	144	143
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

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
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
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	23	24	23	23	22	21	21	20	22	23	23	23	24	22	22	22	21	20	21	22	21	20	21	22
PCUF	CUFK	40	40	40	40	42	40	40	39	40	39	41	39	41	42	41	40	40	40	41	41	39	41	40	42
Total Co-Gen		63	64	63	63	64	61	62	60	61	59	63	62	63	65	62	62	62	61	60	60	61	63	62	59
Total Gen		14580	14274	13958	13715	13516	13337	13081	12902	12780	12661	12565	12645	12712	12745	12590	12265	12373	13017	13562	14022	14478	14934	15128	15264
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	29	31	31	31	30	30	30	30	30	31	31	31	31	30	29	31	31	31	31	31	31
TIE-PLTG		-3	-46	-1	-14	-30	-64	8	0	-37	35	-6	-28	-33	11	37	24	-6	-48	-12	-17	-12	-9	-63	-35
Interconnection		27	-16	29	16	0	-33	39	30	-8	64	24	2	-3	41	68	55	24	-17	19	13	18	20	-32	-4
System Total		14557	14294	13933	13703	13519	13373	13045	12875	12791	12600	12544	12646	12719	12708	12526	12214	12353	13038	13547	14013	14464	14918	15164	15272
SRev ST-Coal		258	275	264	406	500	566	588	541	530	540	538	534	536	527	536	523	459	655	467	380	212	213	210	212
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		793	980	919	774	714	695	787	1093	1221	1399	1610	1295	1230	1195	1357	1707	1466	646	328	229	586	610	498	384
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		7	6	7	7	6	9	8	10	9	11	7	8	7	5	8	6	5	5	8	8	8	9	10	10
Syncon		1014	1014	1014	1014	863	1014	1014	1014	1014	1014	863	1014	1014	1115	1115	1115	1115	1115	964	1115	1115	1115	1115	1014
Hydro		248	246	246	246	379	246	246	247	246	247	377	247	246	245	246	376	320	276	277	277	278	277	409	278
S.Reserve Total		2320	2521	2450	2447	2462	2530	2643	2905	3020	3211	3395	3098	3031	2995	3152	3488	3328	2501	2383	2096	2367	2222	2093	1997
		2028	2291	2228	1812	1850	1803	1631	1527	1589	1808	2071	2401	2579	2628	2373	1602	1614	1639	1732	1252	1477	1364	1572	1715