

Daily System Generation Summary on Saturday

Saturday, September 21, 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	14,337 MW
Total Co-Gen	0 MW
Total System	18,759 MW

Generation Mix

Type	MWh	Percentage
Hydro	7,721	2.17 %
Gas	32,486	9.13 %
Total TNB	40,207	11.30 %
ST-Coal	174,976	49.18 %
LSS	2,088	0.59 %
Gas	135,855	38.18 %
Total IPP	312,919	87.94 %
Co-Gen	1,590	0.45 %
Total Co-Gen	1,590	0.45 %
Total Generation	354,716	99.69 %
PLTG	-391	-0.11 %
HVDC	-710	-0.20 %
Interconnection	-1,101	-0.31 %
Net Energy	355,817	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:	20:00:00 Hour
Total Set On Bus	18,017 MW
TNB Generation	2,408 MW
IPP Generation	13,828 MW
Spinning Reserve	1,713 MW
Maximum Demand	16,369 MW
Net Energy	355,817 MWH
Load Factor	90.57 %

Fuel Cost

Total Cost:	70,131,174.87 RM
Cost per Unit	19.75 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	473
Hydro	412
Syncon	964
Thermal	223
Total	2,072

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	55
PAKA	39
PGPS	35
SRDG	3
TJGS	110
Total TNB	241
CBPS	53
KLPP	110
MPSS	42
NPRI	80
PGLA	109
PLPS	117
PTEK	4
SGB3	101
SGRI	157
SKSP	55
YPKA	78
Total IPP	908
Total Gas	1,149
Total Gas Required	1,149

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	15398	14448	14098	13681	13427	13106	13162	12892	12680	13905	14717	15461	15380	15202	15606	15849	15958	15656	15155	15445	16369	16185	15887	15709

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, October 10, 2019 3:42:55 PM

(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		693	694	694	692	692	693	692	692	692	695	692	694	691	694	691	693	693	692	692	602	601	636	633	631	652	651	674	693	692	651	649	695	693	694	693	693	693	690	693									
JMAH	U002		692	695	716	695	694	693	695	692	695	692	693	695	695	693	690	695	695	692	695	695	601	603	601	604	605	604	603	654	653	653	602	651	655	653	655	692	703	693	693	694	695							
JMHE	U001		982	975	1020	984	976	852	781	779	779	780	778	781	779	779	784	779	778	783	779	782	780	981	979	977	978	976	976	980	981	954	954	951	947	948	949	951	947	952	938	981	980	979	979	980	984	984	977	983
JMHE	U002		753	747	776	754	753	751	749	751	752	748	748	752	750	755	748	747	752	750	751	749	750	751	747	750	749	747	951	950	950	951	957	953	939	849	851	846	851	840	850	850	750	749	753	754	752	747	751	
JMJG	U001		668	667	673	668	668	666	668	666	667	666	666	666	666	666	666	667	663	666	666	667	665	667	665	667	667	667	667	666	666	666	668	662	667	661	666	666	666	666	667	667	666	666	666	669	668			
JMJG	U003		670	666	645	643	643	643	643	649	640	643	644	641	637	658	667	673	670	672	672	658	668	668	667	666	668	663	661	666	665	665	664	662	664	665	665	661	657	667	667	662	662	666	662	666	663	668	668	
JMJG	U004		977	977	978	977	975	944	855	796	785	783	786	785	787	785	785	782	783	783	785	783	785	938	978	977	979	977	978	979	976	978	976	978	977	977	974	974	973	977	975	974	975	977	977	977	979	977	977	
JMJG	U005		983	981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	U003		285	283	281	285	284	283	285	279	282	280	282	282	283	281	284	281	282	280	283	283	284	282	284	276	282	281	281	281	278	282	281	283	287	284	284	284	279	282	283	276	279	281	280	280	282	281	283	285
PKLG	U004		282	282	280	280	280	280	280	279	280	280	282	280	278	281	282	281	280	279	279	281	282	281	281	281	281	277	278	277	279	279	279	280	279	280	280	280	280	280	280	273	280	281	281	281	280	281		
PKLG	U005		471	469	470	468	470	471	470	469	472	473	465	464	466	468	466	469	471	471	471	470	470	472	469	470	470	469	471	468	469	468	474	472	471	471	473	471	471	469	470	468	470	473	468	468	470	471	470	
TBIN	U004		982	982	984	981	982	947	858	784	783	784	783	782	781	780	783	783	781	781	783	781	781	851	941	982	983	981	984	982	981	982	983	982	982	982	982	982	982	982	982	981	982	983	982	983	980	983		
Total ST-Coal			8438	8418	7519	7427	7417	7223	6976	6830	6836	6812	6822	6823	6820	6813	6850	6846	6844	6857	6854	6852	6841	7272	7399	7440	7434	7440	7431	7445	7451	7457	7467	7468	7479	7465	7451	7470	7451	7371	7403	7495	7490	7398	7432	7446	7448	7445	7436	7454
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		
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		
CBPS	BLK2		369	367	367	360	361	362	365	362	361	362	361	358	358	362	358	354	361	362	365	360	365	361	357	362	352	357	362	360	360	356	358	358	356	361	360	362	355	362	356	362	363	360	362	363	362			
GLGR	GT01		83	67	79	69	68	101	102	101	102	92	89	68	70	68	69	69	68	70	69	94	99	100	101	100	100	104	105	104	105	104	104	104	101	102	102	102	103	101	101	102	102	102	102	103	102	103		
GLGR	GT02		81	68	73	68	68	101	100	100	100	88	87	68	68	68	68	68	68	68	69	94	100	99	100	100	100	102	101	101	100	101	101	101	101	101	101	101	102	102	102	102	102	104	103	104	103	104	103	
GLGR	ST1C		82	70	70	70	70	87	89	90	90	87	87	70	69	70	69	70	69	82	90	90	90	90	90	92	92	92	92	92	91	91	92	91	91	91	91	92	92	92	92	92	92	92	92	92	93	93		
KLPP	GT13		130	128	138	114	134	127	133	133	133	114	112	112	115	116	113	111	133	134	132	113	131	131	135	133	127	131	134	131	133	131	131	132	134	134	129	129	125	131	133	134	133	133	130	135	131	136	135	136
KLPP	GT14		138	137	156	124	146	137	152	153	147	124	123	121	124	125	123	120	143	152	152	123	149	148	144	142	139	141	145	140	143	142	142	146	147	150	138	140	133	141	150	148	143	144	141	149	141	155	144	145
KLPP	GT15		141	137	157	123	143	136	148	151	147	123	122	123	123	127	123	122	139	151	148	124	147	141	141	146	138	141	146	142	144	142	140	143	145	150	140	140	132	139	149	146	143	141	138	150	140	152	146	142
KLPP	ST17		200	196	202	186	198	194	202	202	198	190	190	190	185	189	189	187	193	202	185	201	201	191	197	197	197	197	197	197	197	197	197	199	197	199	197	197	197	197	201	201	201	197	201	201	201	201		
MPSS	GT01		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	22	82	104	100	85	64	69	69	85	103	102	102	102	102	70	67	68	69	104	104	104	105	107	83	70			
MPSS	GT02		91	90	96	87	86	88	90	90	88	87	86	86	89	87	86	87	87	89	86	86	85	87	87	106	101	85	67	71	70	87	103	103	103	102	102	71	70	71	71	106	106	106	106	106	107	85	72	
MPSS	ST01		40	39	37	36	38	37	38	37	37	36	36	36	36	35	35	36	37	37	36	37	34	36	110	113	86	76	68	68	77	111	111	112	112	111	82	68	67	67	109	112	113	113	113	114	93	67		
NPRI	BLK2		513	505	525	513	503	512	515	512	511	507	502	506	510	509	508	505	505	511	512	509	511	508	511	512	504	501	505	510	511	510	511	512	510	511	506	511	505	511	502	509	511	511	507	513	512	514	511	512
PAKA	GT4A		85	85	85	85	85	85	84	85	85	85	85	85	85	85	85	85	85	85	85	90	90	89	89	85	85	85	85	90	89	91	90	89	90	85	84	85	90	90	89	90	90	90	90	84	86			
PAKA	GT4B		75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	80	80	80	80	75	75	75	75	80	80	80	80	80	80	80	75	75	79	80	80	80	80	80	75	75			
PAKA	ST4C		47	37	39	36	36	36	36	36	36	36	36	35	35	35	35	35	35	35	39	40	61	87	87	87	82	82	81	81	85	86	86	86	86	86	86	81	81	81	80	85	85	85	85	85	81	80		
PCGP	PGRG		602	593	646	603	594	601	607	600	601	598	593	594	601	601	597	595	595	606	604	601	601	600	600	603	592	589	599	602	599	601	603	602	603	599	593	600	596	604	594	602	601	601	597	604	599	606	599	601
PGLA	GT11		214	212	212	202	209	216	217	215	210	205	196	208	212	171	165	201	203	199	174	214	214	213	211	205	211	210	213	212	210	210	212	210	214	203	204	200	212	208	215	210	212	207	214	208	214	210	215	
PGLA	GT12		221	218	217	208	215	221	223	221	222	215	210	203	216	218	171	207	210	206	180	220	220																											

Daily MW Generation on Saturday

[illegible]

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
UPIA	HY01	4	4	4	4	5	5	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	7	7	7
UPIA	HY02	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro		157	174	173	649	251	190	146	204	144	145	143	164	144	144	142	241	223	287	287	179	197	147	148	241
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	1	2	6	9	13	16	18	20	22	23	23
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	10	15	20	24	30	33	34	37
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	11	11	13	22	33	33	37	37	38
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	16	22	28	33	37	40	42	45	46
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	13	18	20	27	28	30	36	41	35
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	15	20	25	31	34	37	39	40	41
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12	18	25	31	31	40	37	45	45
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	15	20	28	34	41	44	48	50
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	15	21	25	30	34	37	39	34
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	7	38	73	122	165	206	250	297	313	343	352	355
PCUF	CUFG	29	28	28	27	27	27	27	27	29	27	28	29	28	28	27	26	28	28	28	27	26	27	26	27
PCUF	CUFK	37	38	47	40	39	39	43	42	40	38	39	37	40	38	38	37	38	41	38	39	38	39	37	40
Total Co-Gen		66	66	75	67	66	66	70	69	67	67	66	65	69	67	66	65	67	69	66	66	64	67	68	67
Total Gen		15317	15031	14089	14307	14057	13928	13577	13458	13357	13163	13080	13030	13075	13040	12833	12538	12669	13353	13889	14363	14673	15168	15393	15586
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	-51	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		-49	31	-304	-10	-8	11	-71	-32	-37	-9	6	6	-53	4	-26	27	22	-1	16	-18	-11	-57	-34	-26
Interconnection		-78	2	-355	-39	-37	-18	-100	-61	-66	-37	-22	-24	-83	-25	-55	-2	-7	-30	-12	-47	-40	-86	-64	-56
System Total		15398	15033	14448	14350	14098	13950	13681	13523	13427	13204	13106	13058	13162	13069	12892	12544	12680	13387	13905	14414	14717	15258	15461	15646
SRev ST-Coal		135	155	54	106	116	262	343	352	335	358	350	348	351	357	326	325	365	354	358	357	367	252	174	133
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		910	768	676	791	647	395	394	424	469	640	730	801	737	763	1005	1323	1203	699	695	438	372	429	518	273
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		-1	-1	-10	-2	-1	-1	-5	-4	-2	-2	-1	0	-4	-2	-1	0	-2	-4	-1	-1	1	-2	-3	-2
Syncon		1201	1050	1014	424	989	1115	1201	1100	1201	1201	1201	1050	1201	1201	1201	1100	949	1100	1100	1115	964	1201	1201	1029
Hydro		276	410	440	554	387	322	280	323	282	281	283	413	282	282	283	413	282	282	284	286	455	240	240	333
S.Reserve Total		2521	2382	2174	1873	2138	2093	2213	2195	2285	2478	2563	2612	2567	2601	2814	3111	3049	2532	2537	2180	2144	2019	2029	1852