

Daily System Generation Summary on Saturday

Saturday, September 19, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,272 MW
Distillate	0 MW
Total TNB	2,272 MW
Total IPP	16,697 MW
Total Co-Gen	0 MW
Total System	21,792 MW

Generation Mix

Type	MWh	Percentage
Hydro	22,133	6.41 %
Gas	32,759	9.49 %
Total TNB	54,892	15.90 %
ST-Coal	228,279	66.11 %
LSS	2,854	0.83 %
Gas	58,221	16.86 %
Total IPP	289,354	83.80 %
Co-Gen	270	0.08 %
Total Co-Gen	270	0.08 %
Total Generation	344,516	99.77 %
PLTG	-199	-0.06 %
HVDC	-579	-0.17 %
Interconnection	-778	-0.23 %
Net Energy	345,294	100.00 %

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:00:00 Hour
Total Set On Bus	16,992 MW
TNB Generation	3,662 MW
IPP Generation	12,357 MW
Spinning Reserve	898 MW
Maximum Demand	16,112 MW
Net Energy	345,294 MWH
Load Factor	89.30 %

Fuel Cost

Total Cost:	47,595,400.90 RM
Cost per Unit	13.83 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	335
Hydro	381
Syncon	663
Thermal	285
Total	1,664

Time Weather Temperature

Gas Usage

Station	(mmscfd)
GLGR	36
SRDG	7
TJGS	194
Total TNB	237
CBPS	49
KLPP	3
NPRI	142
PGLA	103
PLPS	5
SKSP	0
Total IPP	303
Total Gas	540
Total Gas Required	540

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	14837	14160	13682	13234	13001	12704	12746	12586	12458	13494	14304	14883	14751	14588	14987	15177	15382	15128	14762	14953	16112	15877	15548	15328

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, October 5, 2020 2:05:41 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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	695	693	695	693	692	694	689	693	693	691	692	693	690	693	693	692	692	693	694	693	692	692	695	691	694	693	692	695		
JMHE	U002	983	980	985	979	904	850	848	850	848	783	782	783	783	779	778	779	782	779	779	780	781	935	941	940	934	934	939	940	934	864	
JMJG	U001	675	667	673	672	669	674	672	673	670	673	669	673	673	668	678	677	671	673	671	672	676	672	670	673	677	673	668	674	673	671	
JMJG	U002	671	672	673	671	675	671	674	673	673	670	673	673	674	672	669	678	677	669	673	673	668	671	671	670	672	674	676	670	671	672	
JMJG	U003	593	589	601	624	660	671	666	668	667	666	670	670	664	670	662	676	660	669	668	666	667	667	665	670	665	668	666	667	663	667	
JMJG	U004	977	975	973	974	910	857	859	854	858	791	791	790	790	789	789	790	789	789	790	789	862	941	946	942	943	944	941	944	860	860	
JMJG	U005	715	715	716	716	718	660	370	359	401	364	338	332	325	381	463	446	441	360	507	601	713	725	704	705	710	706	710	711	698	700	
PKLG	U003	279	280	279	280	272	277	278	279	279	279	280	282	282	281	278	278	281	277	281	278	280	279	280	280	279	209	148	144	145	146	
PKLG	U004	279	279	278	276	278	273	281	274	275	277	278	281	280	280	270	279	276	279	276	272	280	278	277	278	274	279	275	273	280	278	
PKLG	U005	466	466	466	468	468	465	466	462	467	469	467	464	465	468	468	467	466	468	469	465	468	467	470	466	465	466	468	467	467	468	
PKLG	U006	448	446	446	449	446	450	448	446	450	449	449	449	448	448	445	449	448	448	446	448	450	445	446	446	449	445	445	446	446	448	
TBIN	U001	689	688	689	689	688	688	691	689	689	689	690	689	691	689	690	692	685	689	693	691	689	689	689	689	691	690	683	688	690	692	
TBIN	U002	694	691	694	693	690	694	695	693	693	689	692	692	694	687	689	691	692	697	694	692	691	692	692	694	696	691	693	693	691	689	
TBIN	U003	692	691	691	691	691	691	693	694	686	688	691	692	694	690	689	687	692	692	689	690	693	692	691	690	691	690	690	688	691	692	
TBIN	U004	982	983	983	983	917	856	853	852	852	785	784	781	783	784	782	782	781	780	782	782	862	943	943	944	941	941	943	940	862	864	
Total ST-Coal		9836	9817	9840	9860	9679	9469	9188	9155	9201	8965	8944	8942	8940	8982	9034	9065	9048	8962	9110	9194	9314	9626	9774	9783	9777	9783	9779	9806	9767	9540	
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	
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	
CBPS	BLK2	361	359	345	218	225	221	221	220	213	220	219	224	223	219	221	223	223	223	267	318	363	363	362	356	350	358	323	358	356	355	359
GLGR	GT01	69	68	69	67	68	69	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GLGR	GT02	69	68	68	67	67	68	84	94	95	95	95	96	95	95	94	95	95	95	96	95	95	95	95	95	95	94	95	110	107	108	
GLGR	ST1C	72	72	72	72	72	73	74	39	40	40	40	40	40	39	40	40	40	40	40	40	40	40	40	40	40	44	47	46	47	46	
KLPP	GT13	110	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT15	126	133	73	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	ST17	136	89	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPRI	BLK1	513	509	419	391	320	322	320	398	388	398	321	320	319	315	313	320	322	319	495	515	514	512	515	513	511	499	509	513	513	519	515
NPRI	BLK2	319	316	319	310	316	337	411	458	380	395	356	356	420	423	330	358	397	521	518	523	507	511	518	520	464	470	431	518	520	520	490
PCGP	PGRG	600	597	503	490	601	602	603	603	587	603	603	604	599	594	491	182	185	591	601	604	593	601	603	601	600	581	595	601	602	617	605
PGLA	GT11	170	168	169	166	170	169	170	168	165	169	169	168	166	167	168	170	165	166	165	164	161	159	164	164	211	159	164	213	215	212	214
PGLA	GT12	173	171	172	170	173	172	172	172	168	172	172	172	170	168	169	167	168	168	168	168	214	163	166	168	215	219	216	217	214	216	217
PGLA	ST10	204	204	202	204	202	204	205	205	204	205	202	202	204	204	201	202	202	202	202	202	202	202	203	204	237	205	204	205	237	237	239
PLPS	GT11	129	128	128	128	129	129	127	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	ST18	58	58	58	58	58	58	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	GT1A	139	141	140	177	144	143	143	153	137	143	141	153	141	141	140	140	156	232	187	198	226	210	222	223	147	206	155	226	231	232	199
TJGS	GT1B	129	135	130	166	132	132	132	140	128	129	126	140	129	133	129	135	138	218	175	187	215	196	213	213	132	200	141	216	212	214	186
TJGS	ST1C	175	175	172	203	172	172	179	187	173	173	176	176	177	170	174	229	207	210	233	220	241	248	195	229	200	242	230	245	234	240	248
TJGS	GT2A	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	126	127	216	214	215	215	214	214	202	204	202	213	216	214	216
TJGS	GT2B	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	124	124	124	211	211	211	211	211	197	199	200	210	211	211	212
TJGS	ST2C	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	257	257	257									

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		
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	4	10	18	25	25	37	22	30	30	35	21	25	25	30	15	23	26	19	14	11	4	1	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	12	47	86	127	211	269	310	327	348	327	348	409	372	382	406	361	310	309	249	221	151	87	39	4	1	1	0	0	0	0	0	0	0	0
PCUF	CUFG	5	4	4	3	3	4	2	2	3	4	5	5	3	3	2	5	4	4	3	4	4	4	4	3	4	3	3	3	3	4	4	3	3	4	4	4	3	4	4	4	49	48	49	4	3	4	4	4	
PCUF	CUFK	4	4	3	5	5	4	3	2	3	3	6	5	2	3	2	4	3	2	3	5	2	3	4	3	3	3	3	1	4	2	2	3	4	3	3	2	3	4	26	30	30	4	1	3	4	4	6		
Total Co-Gen		9	8	7	8	8	8	5	4	6	7	11	10	5	6	4	9	7	6	6	9	6	7	8	6	7	5	6	6	4	8	6	5	6	8	7	7	6	6	7	8	75	78	79	8	4	7	8	10	
Total Gen		14814	14497	14097	13899	13646	13408	13225	13062	12946	12777	12641	12668	12692	12725	12549	12259	12371	13127	13412	13976	14244	14566	14802	14812	14685	14611	14554	14797	14991	15143	15127	15283	15420	15329	15110	14907	14760	14681	14975	16056	16094	16020	15824	15796	15594	15403	15303	15199	
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	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	-28	-29	-29	-29	-28	-29	-28	-28	-30	-30	-29	-29	-29	-29	-29	-29	-29	0	0	0	0	0	0	0	0	0	0	-30	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	
TIE-PLTG		9	5	-31	52	-4	9	23	23	-23	-45	-32	-32	-22	-21	-6	-54	-55	-20	-51	-69	-27	-31	-49	-58	-34	-2	-1	-33	7	-80	-47	26	41	-6	-15	48	31	11	54	-4	13	65	-21	-4	78	-17	7	-9	
Interconnection		-20	-25	-60	23	-33	-19	-6	-6	-52	-74	-60	-61	-51	-49	-34	-84	-84	-48	-79	-99	-57	-60	-78	-88	-62	-31	-30	-62	7	-80	-47	26	41	-6	-15	48	1	-18	25	-32	-15	36	-50	-34	49	-46	-22	-38	
System Total		14837	14525	14160	13879	13682	13430	13234	13071	13001	12854	12704	12732	12746	12777	12586	12346	12458	13178	13494	14078	14304	14629	14883	14903	14751	14646	14588	14863	14987	15226	15177	15260	15382	15338	15128	14862	14762	14702	14953	16091	16112	15987	15877	15833	15548	15452	15328	15240	
SRev ST-Coal		149	168	145	135	336	440	381	450	356	390	407	408	410	364	461	384	502	583	436	354	234	343	281	272	278	272	276	249	288	391	386	416	401	389	387	395	338	160	153	158	185	171	163	160	160	174	162	160	
SRev CCGT-Gas		1147	1297	1387	1505	1543	1378	1283	1044	1203	1139	1261	1229	1195	1205	1411	1676	1608	880	807	473	377	366	304	300	449	502	623	326	143	115	202	140	178	257	309	346	268	460	340	231	338	261	239	151	139	123	148	204	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
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	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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Syncon		651	802	953	1040	1040	1040	1040	1040	1040	1040	1128	1128	1128	977	977	1128	977	977	977	977	977	977	826	977	977	1127	977	1127	1127	825	525	525	338	338	187	187	338	525	525	338	0	0	0	151	151	338	525	525	676
Hydro		450	296	165	107	141	181	175	175	180	178	175	176	179	179	151	375	433	206	334	275	278	321	464	335	336	145	139	138	399	444	348	412	321	444	585	419	490	491	582	402	380	618	650	699	593	507	490	391	
S.Reserve Total		2397	2563	2650	2787	3060	3039	2879	2709	2779	2747	2883	2941	2912	2876	3151	3412	3520	2797	2554	2079	1866	2007	1875	1884	2040	2046	2165	1840	1655	1475	1461	1306	1238	1277	1468	1498	1621	1636	1413	839	903	1044	1274	1231	1379	1450	1325	1431	