

Daily System Generation Summary on Saturday

Saturday, December 19, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,281 MW
Distillate	0 MW
Total TNB	2,281 MW
Total IPP	15,663 MW
Total Co-Gen	0 MW
Total System	20,489 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,375	5.08 %
Gas	34,570	10.73 %
Total TNB	50,945	15.81 %
ST-Coal	189,424	58.79 %
LSS	2,226	0.69 %
Gas	78,461	24.35 %
Total IPP	270,111	83.83 %
Co-Gen	169	0.05 %
Total Co-Gen	169	0.05 %
Total Generation	321,225	99.69 %
PLTG	-297	-0.09 %
HVDC	-693	-0.22 %
Interconnection	-990	-0.31 %
Net Energy	322,215	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:	19:30:00 Hour
Total Set On Bus	16,009 MW
TNB Generation	3,231 MW
IPP Generation	11,760 MW
Spinning Reserve	1,012 MW
Maximum Demand	15,117 MW
Net Energy	322,215 MWH
Load Factor	88.81 %

Fuel Cost

Total Cost:	39,328,595.96 RM
Cost per Unit	12.24 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	315
Hydro	544
Syncon	583
Thermal	222
Total	1,664

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	30
SRDG	2
TJGS	208
Total TNB	241
CBPS	52
KLPP	3
NPRI	159
PGLA	66
PLPS	82
SKSP	36
YPKA	50
Total IPP	447
Total Gas	687
Total Gas Required	687

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	13487	12903	12471	12137	11976	11774	11944	12003	11931	13010	13807	14125	13984	13659	13977	14138	14175	13941	13757	14374	15052	14745	14287	13949

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, January 5, 2021 10:22:50 AM
 (Ir. Shanmugam Thoppalan)
 Head
 Grid System Operator

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		692	691	692	692	693	693	693	693	693	693	692	692	692	692	692	693	694	692	691	692	693	692	691	692	690	693	704	692	692	692	694	692	692	694	692	692	694	692	694									
JMAH	U002		691	693	695	694	692	692	694	696	694	694	691	695	692	694	695	694	696	706	694	693	695	693	696	701	691	691	692	697	694	694	691	695	693	694	695	696	693	695	694	695	693	693	695	692	718			
JMJG	U002		675	672	674	672	668	678	673	673	681	674	607	600	596	601	594	601	643	672	677	674	673	672	676	674	676	672	673	679	670	667	677	672	671	678	671	672	672	675	671	673	673	674	613	598	601	600	596	
JMJG	U003		671	662	667	662	659	664	489	496	497	497	495	494	495	494	495	496	495	493	496	494	494	497	495	496	495	493	493	497	495	494	509	540	621	685	519	526	524	524	520	442	426	422	397	371	342			
JMJG	U004		958	901	856	856	857	856	836	788	788	786	790	789	788	791	790	789	791	816	873	931	930	933	933	932	932	933	933	933	933	933	933	933	934	942	941	942	942	940	941	941	942	942	944	944				
PKLG	U003		279	280	281	281	279	281	281	277	279	280	279	281	280	282	282	281	282	282	281	282	282	281	282	279	280	280	280	280	280	280	280	280	280	280	282	281	279	279	279	279	281	281	281	279	280			
PKLG	U004		277	276	279	281	278	276	278	278	276	278	276	278	280	279	278	278	280	281	279	279	279	280	276	278	279	278	280	280	278	279	278	280	279	279	279	278	277	279	281	273	278	278	279	277	279	280		
PKLG	U005		470	469	464	462	466	467	468	469	467	468	466	465	467	466	466	467	468	468	467	470	467	468	468	467	467	468	468	467	467	466	466	468	468	468	470	469	468	469	469	468	469	468	469	464	462	466		
PKLG	U006		447	445	447	445	451	447	447	451	451	447	450	447	447	448	449	455	452	448	451	447	449	451	449	449	448	446	447	446	449	448	449	448	449	448	447	449	448	447	449	451	447	446	449	449	447			
TBIN	U001		690	690	690	687	689	687	692	689	690	691	693	687	689	690	689	691	691	690	692	689	693	689	691	683	691	691	690	691	690	691	690	688	691	690	691	692	687	689	690	690	692	689	690	690	690			
TBIN	U002		692	693	693	694	691	689	694	694	698	691	693	693	693	689	694	690	695	691	694	697	691	692	693	694	690	692	692	693	693	694	694	692	691	694	693	692	694	693	692	695	693	688	693	695	694			
TBIN	U003		691	687	693	692	693	694	694	691	692	693	694	690	693	694	692	693	690	691	692	693	693	691	692	693	690	691	691	692	693	692	692	691	690	691	690	692	692	694	693	695	692	693	691	697	691	691		
TBIN	U004		931	929	932	932	932	932	912	823	782	782	782	781	782	781	782	783	782	828	919	933	931	932	934	933	934	932	932	931	931	931	931	931	931	931	931	931	946	941	943	942	940	944	943	943	943	942		
Total ST-Coal			8164	8088	8063	8048	8050	7956	7847	7720	7688	7673	7616	7594	7593	7597	7600	7609	7658	7677	7756	7907	7984	7964	7970	7972	7966	7971	7968	7961	7962	7961	7973	7969	7965	7973	8015	8105	8157	8015	8023	8024	8016	8007	7944	7856	7836	7822	7787	7784
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	
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	
CBPS	BLK2		359	361	362	368	354	362	357	364	357	225	229	224	223	221	223	281	352	359	359	358	366	362	362	362	362	359	360	360	362	362	365	359	362	362	362	362	369	369	361	361	362	362	363	362	362	362		
GLGR	GT01		69	88	100	102	100	100	96	96	95	95	95	96	96	95	95	94	95	96	96	95	96	94	95	94	95	96	94	95	96	107	108	107	95	96	108	109	108	108	109	109	108	109	108	108	108	109		
GLGR	GT02		68	90	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
GLGR	ST1C		72	81	46	41	41	41	40	40	40	39	40	40	40	40	40	40	40	40	39	39	40	40	40	39	40	40	40	40	44	45	45	40	40	44	45	45	45	45	45	45	45	44	44	44	44			
KLPP	GT15		140	137	121	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		53	54	50	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		515	515	514	518	505	515	508	517	515	512	509	515	516	518	515	516	518	517	514	515	510	517	516	515	512	511	516	514	515	517	517	517	513	515	519	515	527	526	517	517	515	515	516	512	512	517		
NPRI	BLK2		517	517	516	520	505	517	509	518	517	513	511	517	517	520	518	516	518	518	522	516	511	515	517	518	514	513	514	513	517	517	518	517	518	519	513	518	520	518	527	527	517	518	518	517	518	514	513	518
PCGP	PGRG		601	603	600	605	588	602	597	603	602	602	596	603	604	609	601	602	605	608	601	599	600	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	
PGLA	GT11		172	168	168	170	199	169	167	170	168	168	230	230	229	231	230	230	158	227	227	226	225	227	225	224	222	156	155	219	224	224	225	224	224	222	225	227	224	228	227	226	226	225	226	226	225	227		
PGLA	GT12		175	172	171	173	203	172	172	173	172	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PGLA	ST10		216	207	206	204	226	205	205	205	204	204	107	116	119	119	119	118	91	115	116	116	115	112	117	117	112	93	114	118	118	118	118	118	118	118	117	117	118	118	118	117	117	117	115	116				
PLPS	GT11		129	129	128	128	125	128	128	129	129	129	129	128	129	128	129	126	126	130	129	142	142	141	113	115	113	115	116	135	141	142	142	141	142	142	148	148	145	119	129	131	134	148	148	148	148			
PLPS	GT12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	146	146	147	145	118	119	115	119	138	145	147	145	146	120	129	119	121	151	149	123	134	136	138	69	0	0	0		
PLPS	GT13		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	146	146	138	138	137	137	111	112	109	113	112	129	138	137	137	138	112	121	112	113	141	142	116	126	127	130	147	147	147	147	
PLPS	ST18		58	57	56	58	56	57	58	57	57	57	57	57	57	56	56	57	58	56	144	144	213	215	215	214	201	200	198	197	199	213	214	213	213	214	200	207	199	206	214	215	204	209	210	213	205	147	146	146
SKSP	BLK1		297	220	197	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	160	347	335	328	335	309	301	282	278	297	324	327	338	338	335	280	276	240	279	317	338	266	308	295	295	302	283	269	306	

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
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
KRLS	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
STLS	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	4	3	3	5	2	3	4	4	4	3	4	5	4	4	4	3	5	4	4	3	3	4	2	5
PCUF	CUFK	4	3	4	4	2	4	3	4	3	1	3	3	3	5	1	4	4	4	3	2	5	3	3	2
Total Co-Gen		8	6	7	9	4	7	7	8	7	4	6	7	8	9	3	8	8	8	6	7	9	5	11	7
Total Gen		13427	13175	12851	12751	12450	12343	12101	12014	11904	11873	11775	11844	11933	11980	12008	11803	11883	12485	12947	13422	13766	13967	14083	14133
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	-30	-30	-29	-29	-29	-28	-28	-29	-29	-29	-29	-28	-28	-28	-28	-29	-29	-29	-29	-29	-28
TIE-PLTG		-31	39	-23	-53	9	-1	-8	-25	-43	1	29	11	18	0	34	-10	-18	-40	-33	11	-12	-38	-13	-61
Interconnection		-60	10	-52	-83	-21	-30	-36	-54	-72	-28	1	-17	-11	-30	5	-40	-48	-69	-63	-18	-41	-67	-42	-89
System Total		13487	13165	12903	12834	12471	12373	12137	12068	11976	11901	11774	11861	11944	12010	12003	11843	11931	12554	13010	13440	13807	14034	14125	14222
SRev ST-Coal		216	283	264	278	278	343	274	273	263	279	322	337	335	336	329	324	295	275	269	247	206	226	220	218
SRev CCGT-Gas		767	986	1285	935	654	697	805	771	841	863	590	453	396	379	505	535	506	445	625	520	259	164	171	174
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 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 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 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
Syncon		907	901	901	901	1052	901	1052	1052	1052	1052	865	1052	1052	1052	613	901	1052	951	850	850	951	878	540	691
Hydro		375	246	247	164	124	248	122	117	124	115	259	119	87	62	344	248	113	94	321	378	411	402	639	489
S.Reserve Total		2265	2416	2697	2278	2108	2189	2253	2213	2280	2309	2036	1961	1870	1829	1791	2008	1966	1765	2065	1995	1827	1670	1570	1572