

Daily System Generation Summary on Sunday

Sunday, November 15, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,347 MW
Distillate	0 MW
Total TNB	2,347 MW
Total IPP	17,946 MW
Total Co-Gen	0 MW
Total System	22,990 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,131	4.15 %
Gas	17,067	5.39 %
Total TNB	30,198	9.53 %
ST-Coal	231,903	73.21 %
LSS	2,711	0.86 %
Gas	51,573	16.28 %
Total IPP	286,187	90.34 %
Co-Gen	313	0.10 %
Total Co-Gen	313	0.10 %
Total Generation	316,698	99.97 %
PLTG	612	0.19 %
HVDC	-697	-0.22 %
Interconnection	-85	-0.03 %
Net Energy	316,783	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:	20:30:00 Hour
Total Set On Bus	16,313 MW
TNB Generation	2,108 MW
IPP Generation	12,717 MW
Spinning Reserve	1,474 MW
Maximum Demand	14,930 MW
Net Energy	316,783 MWH
Load Factor	88.41 %

Fuel Cost

Total Cost:	37,823,059.30 RM
Cost per Unit	11.93 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	267
Hydro	231
Syncon	565
Thermal	545
Total	1,608

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	93
Total TNB	122
CBPS	47
NPRI	158
PLPS	44
Total IPP	250
Total Gas	372
Total Gas Required	372

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	13934	13434	12976	12506	12065	11936	11836	11485	11143	11838	12479	13083	13263	13440	13771	13973	13957	13766	13476	14339	14894	14685	14388	14143

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, December 1, 2020 9:52:39 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Sunday

		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		599	601	601	601	651	651	653	630	548	512	450	451	449	448	449	451	450	451	468	684	693	692	652	653	599	602	652	692	692	694	695	692	693	692	692	693	692	693	692	629	633	635	631	631	633	633	633	631	
JMAH	U002		456	456	458	458	494	491	494	494	493	489	454	453	453	451	452	453	454	451	456	454	454	453	454	452	452	454	454	491	483	479	484	482	483	486	484	485	484	485	484	483	483	483	484	484	484	484	486	483	
JMHE	U001		959	957	850	847	783	779	780	782	779	780	780	779	780	779	775	779	779	777	781	781	781	838	843	840	839	841	837	841	835	839	889	890	890	886	892	888	895	890	893	950	949	951	952	951	951	950	952	946	
JMHE	U002		956	958	851	848	780	781	782	782	775	778	781	778	779	777	774	779	778	777	780	779	783	839	840	840	839	840	837	842	834	840	889	891	890	886	891	890	892	891	893	951	946	952	953	950	950	951	950	949	
JMJG	U002		673	669	672	672	673	669	672	634	546	475	459	459	461	458	458	458	460	458	458	487	508	567	604	644	671	672	673	673	672	673	671	675	674	671	675	674	677	673	673	667	675	671	673	673	667	678	677		
JMJG	U003		667	670	666	663	663	662	660	609	519	474	455	458	456	457	455	456	458	455	455	486	499	579	586	611	663	662	665	663	661	657	668	664	665	663	664	661	663	663	664	662	667	662	660	667	663	668	662	664	
JMJG	U004		960	962	917	861	800	744	711	711	708	712	709	711	709	710	710	711	712	707	707	709	709	759	807	809	805	806	808	807	806	808	843	894	895	892	892	892	892	892	895	892	938	945	945	950	944	945	946	946	945
JMJG	U005		798	800	796	797	707	698	700	700	700	701	700	700	700	697	700	700	699	700	700	700	698	699	701	728	792	799	798	794	796	798	797	796	796	796	798	796	799	794	799	796	798	798	795	796	796	795	799	795	
PKLG	U003		281	281	281	279	279	277	278	277	278	281	278	279	275	278	203	153	154	148	160	265	278	279	279	280	279	278	278	279	276	276	275	280	280	279	279	281	281	280	282	281	281	278	280	279	281	282	282		
PKLG	U005		468	467	466	466	468	468	467	466	467	469	467	467	468	409	315	271	267	269	289	368	468	467	467	466	466	466	467	466	466	466	467	464	466	467	467	468	467	468	469	469	468	470	467	477	468	466			
PKLG	U006		449	449	445	448	450	450	448	449	448	449	447	447	448	449	451	449	449	449	447	448	448	445	449	447	447	447	447	447	447	447	448	451	448	449	449	446	447	449	446	449	447	449	451	451	450	448			
TBIN	U001		687	689	691	690	690	692	691	692	690	690	691	690	689	691	601	600	687	690	691	691	690	690	690	691	690	690	690	690	689	690	691	690	690	690	689	691	691	690	690	690	690	690	690	690	690	550	563		
TBIN	U002		690	687	691	691	690	690	692	692	692	691	691	692	693	693	692	604	603	679	693	691	692	692	685	692	693	691	690	693	689	695	692	691	691	693	691	690	693	688	691	691	694	692	690	687	691	690	691	691	
TBIN	U003		693	690	691	691	688	689	692	694	691	688	691	690	689	692	692	599	600	668	694	687	689	688	692	684	691	691	688	692	693	691	691	689	692	692	692	689	692	681	696	691	691	692	690	691	690	691	692	690	
TBIN	U004		966	963	892	854	782	782	783	782	782	783	782	782	782	784	782	783	782	783	825	844	843	842	841	843	842	842	842	843	893	893	892	892	893	893	894	893	896	954	953	953	952	952	952	952	952	952			
Total ST-Coal			10302	10299	9968	9866	9598	9521	9504	9393	9118	8972	8835	8837	8832	8769	8601	8248	8247	8458	8565	9011	9174	9515	9589	9681	9769	9782	9829	9913	9883	9896	10094	10138	10143	10135	10153	10139	10156	10137	10153	10306	10321	10323	10310	10315	10315	10326	10191	10182	
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	0	
CBPS	BLK2		351	351	365	359	360	276	218	223	215	223	224	224	223	216	225	224	226	222	229	216	221	228	214	221	228	292	348	362	362	363	362	360	361	363	363	358	369	363	364	365	359	358	357	364	362	356			
GLGR	GT02		95	96	95	95	96	95	96	95	96	95	96	95	95	95	95	95	95	95	95	95	95	95	95	95	96	95	95	95	96	95	96	95	100	94	96	95	96	95	96	95	95	95	95	95	95	95			
GLGR	ST1C		40	39	40	40	40	40	40	40	40	40	40	40	39	40	40	40	40	39	40	40	40	40	40	40	40	40	40	40	40	41	40	41	40	40	40	40	40	40	40	40	40	40	40	40	40				
NPRI	BLK1		493	497	511	505	503	511	505	505	502	511	510	505	511	512	503	431	475	510	519	506	515	501	511	510	495	503	512	511	498	506	505	506	507	502	505	505	509	502	512	506	502	509	504	506	502	506	500		
NPRI	BLK2		505	509	521	517	514	523	514	517	511	521	515	521	514	516	521	530	524	527	515	523	515	503	521	508	516	527	525	514	522	521	521	517	521	521	524	518	524	512	518	524	512	518	521	520	522	522	515		
PCGP	PGRG		580	584	601	593	592	603	594	596	592	601	602	594	604	602	593	595	601	604	613	597	610	595	603	601	583	597	607	592	605	604	602	603	597	600	602	606	598	612	602	597	605	598	602	599	603	602	596		
PLPS	GT11		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	145	128	129	127	128	128	130	130	128	124				
PLPS	GT13		138	120	124	122	121	125	122	121	122	123	124	124	124	125	123	122	127	126	131	127	129	124	127	127	123	127	123	127	130	128	124	129	129	129	128	128	129	125	128	130	125	125	125	125	127	127	126	122	
PLPS	ST18		60	56	59	58	59	59	59	59	59	59	60	58	59	59	60	58	59	59	60	60	60	59	60	59	58	60	60	60	59	60	59	58	59	59	59	59	58	142	140	141	139	139	139	139	140	139	139		
SPGP	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
TJGS	GT2A		215	214	214	214	214	127	127	127	127	127	127	127	127	129	129	128	128	128	128	128	128	128	128	128	128	167	213	215	215	214	214	214	166	126	128	217	214	214	215	215	215	215	215	214	214				
TJGS	GT2B		211	211	211	211	211	124	125	125	125	125	123	123	123	124	124	123	123	123	123	123	123	123	123	126	126	124	164	209	211	211	211	210	213	162	124	124	214	211	209	211	210	211	211	211	211	211			
TJGS	ST2C		257	257	257	257	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	221	257	257	257	257	257	257	257	221	200	200	255	255	255	255	257	257	257	257	257			
Total CCGT-Gas			2945	2934	2998	2971	2967	2682	2599	2607	2588	2624	2626	2604	2626	2628	2601	2525	2594	2631	2663	2621	2655	2595																											

Daily MW Generation on Sunday

[illegible]

Daily MW Generation on Sunday

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	