

Daily System Generation Summary on Sunday

Sunday, November 22, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,900 MW
Distillate	0 MW
Total TNB	1,900 MW
Total IPP	15,544 MW
Total Co-Gen	0 MW
Total System	20,267 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,929	4.15 %
Gas	34,832	11.18 %
Total TNB	47,761	15.33 %
ST-Coal	210,944	67.69 %
LSS	2,491	0.80 %
Gas	49,161	15.78 %
Total IPP	262,596	84.27 %
Co-Gen	227	0.07 %
Total Co-Gen	227	0.07 %
Total Generation	310,584	99.67 %
PLTG	-341	-0.11 %
HVDC	-696	-0.22 %
Interconnection	-1,037	-0.33 %
Net Energy	311,621	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	15,552 MW
TNB Generation	2,916 MW
IPP Generation	11,797 MW
Spinning Reserve	830 MW
Maximum Demand	14,799 MW
Net Energy	311,621 MWH
Load Factor	87.74 %

Fuel Cost

Total Cost:	38,332,207.01 RM
Cost per Unit	12.34 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	563
Hydro	249
Syncon	577
Thermal	499
Total	1,888

Time	Weather	Temperature
Afternoon	Cloudy	32
Morning	Cloudy	26

Gas Usage

Station	(mmscfd)
GLGR	30
TJGS	178
Total TNB	208
CBPS	45
NPRI	155
PGLA	8
SKSP	2
YPKA	19
Total IPP	230
Total Gas	439
Total Gas Required	439

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	13572	12999	12602	12298	11958	11796	11816	11705	11259	11785	12479	13022	13122	13186	13360	13634	13567	13579	13193	14216	14615	14368	13982	13602

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, December 1, 2020 9:56:16 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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																									
JMAH	U001	692	690	693	695	693	691	693	602	603	601	601	555	554	652	652	500	502	579	503	451	451	541	601	603	652	650	691	692	693	692	689	694	694	691	692	693	693	689	690	692	693	698	693	688	693				
JMAH	U002	694	688	693	695	694	694	694	603	603	604	602	551	553	658	652	501	503	555	500	452	452	517	605	603	655	654	693	698	694	693	692	695	696	692	697	693	696	692	694	694	689	690	686	693	695	690	689	691	
JMHE	U002	846	848	777	784	778	778	786	779	781	780	778	776	780	781	779	780	779	786	780	783	783	774	779	873	867	867	868	871	869	868	872	871	871	869	869	869	872	868	941	938	939	936	937	943	942	937	936	849	
JMJG	U001	448	445	495	579	619	662	688	632	568	547	547	530	500	497	497	475	452	447	454	449	451	445	448	461	497	511	505	506	546	584	672	673	672	677	679	675	679	671	677	677	668	673	673	671	673	671	671	671	
JMJG	U002	546	633	668	672	673	668	607	540	543	548	550	524	494	500	499	464	446	449	449	450	450	449	460	514	511	508	514	545	565	640	665	673	681	671	668	682	673	673	672	669	672	673	657	675	679	671	670		
JMJG	U003	668	664	668	671	669	669	614	540	546	546	545	520	510	505	502	458	456	457	457	454	455	453	458	467	493	497	511	505	542	606	666	666	666	666	663	672	662	666	668	667	667	670	671	661	667	663	667	667	671
JMJG	U004	926	866	828	771	711	705	706	706	710	710	709	710	712	710	708	710	710	709	713	712	712	710	711	709	712	709	710	712	712	710	710	712	711	711	713	713	710	751	808	865	923	941	941	941	885	825	770		
JMJG	U005	798	801	775	730	736	734	733	732	733	732	733	733	733	731	733	731	733	731	733	731	730	730	729	732	730	729	733	728	733	728	731	732	733	730	732	732	733	725	798	801	801	801	800	805	803	799	803	729	
PKLG	U003	280	279	283	281	283	280	282	272	279	280	281	280	280	281	282	213	204	248	279	282	281	281	283	282	281	281	282	283	280	281	282	283	283	285	283	282	279	280	281	280	280	281	281	281	281	282	279	278	
PKLG	U005	464	469	462	464	461	462	461	461	466	466	460	467	457	458	465	408	360	428	467	470	468	466	465	468	466	468	469	466	470	466	470	469	469	468	467	468	468	469	466	469	467	468	466	467	468	467	467		
PKLG	U006	449	450	448	450	447	448	451	449	449	449	447	447	447	447	451	447	449	448	449	449	449	449	448	447	447	447	448	444	449	448	448	447	447	447	451	447	447	450	447	449	449	451	449	449	449	448	448	446	
TBIN	U002	690	686	692	694	691	690	692	691	692	688	692	693	688	688	692	652	696	692	688	693	691	694	694	685	689	697	692	686	698	692	691	688	692	692	690	692	688	688	694	689	688	690	689	692	689	689	692	691	
TBIN	U003	689	688	689	697	691	692	694	693	690	687	692	691	689	690	691	653	695	700	689	690	693	691	693	690	687	696	690	691	693	693	691	690	692	691	686	690	693	691	694	691	689	692	695	692	689	694	691	694	
TBIN	U004	915	852	811	782	782	782	784	782	782	783	781	782	783	783	781	781	782	781	783	781	782	782	782	840	873	872	872	873	873	872	872	872	874	874	871	872	872	872	930	944	942	944	943	942	943	941	942	855	
Total ST-Coal		9105	9059	8982	8965	8928	8955	8885	8482	8445	8421	8418	8259	8180	8381	8384	7773	7766	8010	7941	7847	7851	7983	8145	8318	8562	8592	8669	8670	8797	8900	9129	9153	9169	9174	9173	9154	9180	9150	9406	9472	9506	9583	9587	9594	9607	9542	9470	9175	
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	350	340	353	326	223	220	223	223	222	223	222	220	221	222	222	221	223	223	223	221	220	220	224	219	219	224	220	224	217	223	304	298	305	349	357	364	363	365	357	361	348	355	345	355	348	359	354	359	
GLGR	GT01	68	68	66	67	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	GT02	68	68	67	68	96	96	96	96	95	96	95	96	95	96	96	96	96	96	96	95	95	97	97	96	96	96	96	96	96	96	96	95	96	95	96	95	96	95	96	95	96	95	96	96	96	95			
GLGR	ST1C	72	72	72	72	41	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40			
NPRI	BLK1	511	499	502	506	511	505	506	511	510	511	506	507	510	513	506	512	511	447	444	445	509	510	511	509	503	507	500	509	502	511	510	511	490	501	509	515	512	511	510	493	499	491	502	487	507	495	506		
NPRI	BLK2	523	510	517	516	523	514	515	521	522	523	518	518	522	524	514	478	512	446	454	453	482	520	521	521	515	518	512	520	512	522	520	521	523	502	511	520	527	524	523	523	504	510	503	514	498	517	507	517	
PCGP	PGRG	603	584	598	595	602	594	595	599	601	603	597	596	603	605	595	604	603	602	601	603	600	602	602	602	598	595	589	601	590	607	599	601	602	575	588	602	603	604	602	605	577	586	576	591	573	598	581	600	
PGLA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	219	218	218	218	158	159	190	217	218		
SKSP	BLK1	243	218	149	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SPGP	BLK2	208	208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	182	286	723	736	740	741	684	687	690	717	723	721	721	745	748	719	720	354	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	GT1A	185	163	233	174	215	150	154	184	157	161	155	190	231	140	148	192	147	153	174	171	184	220	229	234	163	178	166	185	167	232	154	147	182	135	192	204	231	237	230	226	217	228	216	224	183	170	139	176	
TJGS	GT1B	174	152	216	161	206	136	141	169	148	152	152	178	214	128	137	181	137	141	163	158	172	212	214	216	149	164	153	169	157	220	144	135	172	126	182	194	212	217	213	214	205	210	202	216	171	157	126	161	
TJGS	ST1C	187	190	216	208	216	190	179	212	192	191	187	199	241	197	181	213	181	178	209	191	196	241	228	237	192	198	189	226	203	246	199	181	190	176	231	202	238	252	239	250	246	246	239	242	226	192	180	190	
TJGS	GT2A	137	127	128	128	128	126	129	128	128	128	128	128	129	127	128	128	130	127	127	128	128	128	126	129	129	127	128	128	128	128	129	129	176	185	130	127	203	213	213	213	213	213	203	129	129	128			
TJGS	GT2B	135	125	122																																														

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	
KNRG	HY02	37	24	24	24	24	24	24	24	24	0	0	0	0	0	38	38	38	38	38	38	38	38	37	37	37
KNRG	HY03	36	24	24	24	24	24	24	24	24	25	25	25	26	26	25	37	37	37	37	37	37	37	37	37	37
KNYR	HY01	60	55	57	57	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	62	68	76	100	68	87
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	96	-1	-1	-1	100	95
KNYR	HY04	98	56	75	58	96	61	59	64	79	95	80	84	97	80	59	93	85	70	83	80	84	100	97	98	59
LPIA	HY01	22	22	20	20	19	19	18	18	18	18	18	17	17	16	22	22	22	22	20	20	20	20	20	20	20
LPIA	HY02	22	22	20	20	19	18	18	18	17	16	16	16	16	16	22	22	22	22	20	20	20	20	20	20	20
MNOR	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	1
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	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	0
SIHY	HY01	31	49	51	50	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	49	49	49
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	30
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	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	0
SYPS	HY02	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	0	0	0	0	0	0
SYPS	HY03	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
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	0
TMGR	HY01	-1	31	-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	68	41	44	44	44	44	44	45	44	43	44	60	45	43	61	44	47	44	44	44	48	68	43	45	42
TMGR	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	0
TMGR	HY04	31	28	30	13	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
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	-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	-1
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Total Hydro		586	477	470	433	402	366	370	376	370	356	319	324	352	320	295	397	371	372	382	380	385	397	402	422	342
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	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	0
BKLS	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	0
BSLS	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	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	0
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	0
GELS	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	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	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	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	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	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	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	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	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	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	0
PCUF	CUFG	6	6	4	4	5	5	7	7	7	6	6	3	5	6	5	4	6	5	5	7	4	5	7	5	6
PCUF	CUFK	3	2	2	4	2	2	4	4	5	3	2	2	2	6	3	3	3	6	7	5	6	6	8	5	5
Total Co-Gen		9	8	6	8	7	7	11	11	12	9	8	5	7	12	8	7	9	11	12	12	10	11	15	10	11
Total Gen		13491	13172	13001	12655	12547	12327	12272	11980	11871	11843	11775	11688	11775	11734	11683	11279	11194	11545	11699	12128	12374	12710	12919	13057	
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

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																										
TIE-HVDC		-29	-29	-29	-30	-30	-29	-29	-29	-29	-28	-28	-29	-29	-29	-30	-30	-29	-29	-29	-30	-30	-29	-29	-28	-28	-29	-29	-29	-30	-30	-29	-29	-28	-28	-29	-29	-29													
TIE-PLTG		-43	6	38	-27	-17	27	12	14	-50	18	16	16	-4	-29	15	-31	-27	-50	-50	-9	-68	-72	-67	-11	-36	-55	0	-33	1	-20	42	-7	38	-11	42	-22	-26	-31	-44	-39	2	-12	-33	-59	31	-31	15	-1		
Interconnection		-73	-23	10	-56	-47	-3	-18	-15	-79	-11	-13	-13	-33	-58	-14	-59	-57	-79	-78	-38	-97	-100	-95	-40	-65	-85	-29	-61	-28	-49	14	-36	10	-40	13	-52	-56	-60	-73	-69	-28	-41	-62	-88	3	-60	-14	-31		
System Total		13572	13203	12999	12719	12602	12338	12298	12003	11958	11862	11796	11709	11816	11800	11705	11346	11259	11632	11785	12174	12479	12818	13022	13105	13122	13162	13186	13357	13360	13670	13634	13595	13567	13534	13579	13228	13193	13265	14216	14799	14615	14643	14368	14369	13982	13887	13602	13451		
SRev ST-Coal		502	460	438	473	497	491	577	800	813	774	770	806	831	780	768	1025	973	973	915	906	904	916	729	727	646	664	601	604	541	624	510	465	446	444	444	460	435	461	306	295	321	288	284	277	264	302	318	456		
SRev CCGT-Gas		730	894	777	714	753	859	802	697	764	751	778	708	584	787	812	714	801	924	849	874	754	588	584	576	772	737	789	681	767	554	683	723	629	759	444	366	423	401	249	194	292	251	311	243	422	641	732	608		
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		839	752	839	839	1027	1027	1027	1027	1027	876	1027	1027	1027	1027	1027	1027	1027	1027	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	451	552	552	552	378	0	0	313	565	666	666	666	479	566
Hydro		185	370	290	327	170	206	213	207	165	250	136	131	103	135	160	98	124	123	113	117	112	100	95	75	130	129	261	135	136	98	136	137	136	146	178	159	140	41	213	341	791	580	445	388	317	248	513	334		
S.Reserve Total		2256	2476	2344	2353	2447	2583	2619	2731	2769	2651	2711	2672	2545	2729	2767	2864	2925	3047	2904	2550	2423	2257	2061	2031	2201	2183	2153	2073	2097	1929	1982	1978	1864	2002	1514	1537	1550	1455	1146	830	1404	1432	1605	1574	1669	1857	2042	1964		