

Daily System Generation Summary on Saturday

Saturday, March 20, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,331 MW
Distillate	0 MW
Total TNB	2,331 MW
Total IPP	17,153 MW
Total Co-Gen	0 MW
Total System	23,755 MW

Generation Mix

Type	MWh	Percentage
Hydro	10,578	2.98 %
Gas	53,943	15.19 %
Total TNB	64,521	18.17 %
ST-Coal	229,683	64.69 %
LSS	3,593	1.01 %
Gas	56,180	15.82 %
Total IPP	289,456	81.52 %
Co-Gen	167	0.05 %
Total Co-Gen	167	0.05 %
Total Generation	354,144	99.74 %
PLTG	-202	-0.06 %
HVDC	-720	-0.20 %
Interconnection	-922	-0.26 %
Net Energy	355,066	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	17,825 MW
TNB Generation	3,419 MW
IPP Generation	13,033 MW
Spinning Reserve	1,365 MW
Maximum Demand	16,444 MW
Net Energy	355,066 MWH
Load Factor	89.97 %

Fuel Cost

Total Cost:	42,460,633.85 RM
Cost per Unit	11.99 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	348
Hydro	294
Syncon	895
Thermal	533
Total	2,070

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	48
TJGS	98
Total TNB	145
CBPS	51
NPRI	80
PLPS	54
YPKA	25
Total IPP	211
Total Gas	356
Total Gas Required	356

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	15497	14852	14251	13780	13401	13213	13091	12962	12706	13860	14664	15157	15251	15074	15542	15812	15770	15408	14973	15001	16444	16368	15891	15755

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 6, 2021 11:50:07 AM

(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	599	605	602	602	550	552	500	607	550	550	554	552	550	551	550	551	645	653	648	692	691	654	653	600	542	553	553	660	692	692	685	603	549	553	551	551	554	633	692	690	689	695	689	688	692	692			
JMAH	U002	604	604	606	603	554	554	504	607	552	554	557	556	555	554	555	555	554	652	653	657	694	696	643	654	605	528	551	556	687	694	696	687	609	554	556	555	556	554	627	696	694	694	697	692	697	694	696		
JMHE	U001	972	962	978	895	844	781	782	784	780	779	779	779	780	782	778	784	780	781	780	848	923	947	948	951	946	952	947	950	950	965	972	975	982	956	951	956	947	946	811	748	751	753	750	752	750	751	746	748	
JMHE	U002	978	981	972	895	842	780	780	781	781	778	780	779	779	782	778	781	780	780	779	851	955	950	949	952	947	950	950	951	949	977	977	979	983	983	981	985	981	984	983	977	980	985	980	985	977	980	977	980	
JMJG	U001	596	542	549	548	546	549	574	547	552	548	548	550	545	547	548	550	547	596	595	598	602	601	594	598	598	598	601	598	598	599	598	601	596	594	557	549	550	548	555	627	639	654	647	645	646	649	649	643	
JMJG	U002	604	548	546	546	549	548	601	602	599	598	597	596	603	601	594	548	550	594	601	598	596	601	598	596	601	596	599	598	595	603	598	598	598	601	563	551	547	548	549	620	645	644	647	651	643	653	649	650	
JMJG	U003	595	540	546	542	548	546	595	587	591	593	596	593	592	595	598	538	542	585	590	593	590	595	594	594	596	593	595	596	594	593	596	591	595	594	558	545	547	547	546	613	651	642	645	644	643	641	644	646	
JMJG	U004	977	975	975	919	898	839	787	788	790	790	790	786	789	789	788	788	789	790	792	879	952	951	952	953	950	951	953	952	975	969	969	972	972	971	971	972	970	971	970	971	972	971	972	974	972	972	971		
JMJG	U005	800	799	800	800	778	780	781	781	781	778	780	782	780	781	778	780	780	796	785	800	801	801	800	800	801	804	801	800	801	800	805	801	801	801	803	798	806	805	804	805	807	805	807	806	820	829	826	823	
PKLG	U003	153	154	153	154	154	154	154	153	155	154	154	154	154	153	153	153	153	153	153	153	223	270	197	153	154	206	259	278	269	182	151	154	154	154	156	151	152	163	270	278	278	277	278	278	277	278			
PKLG	U004	153	159	152	155	156	155	155	160	157	157	153	156	157	155	157	155	153	155	155	154	155	155	216	239	153	145	157	217	249	276	267	166	147	148	150	151	146	156	151	166	250	281	276	275	270	279	278	283	
PKLG	U006	445	445	445	448	449	439	443	447	439	443	440	440	446	446	442	445	450	448	450	445	450	449	445	447	442	449	444	443	447	442	442	449	450	449	445	445	451	452	449	448	450	448	449	450	449	452	448		
TBIN	U001	626	630	629	630	632	600	649	689	650	649	648	649	599	600	599	600	599	602	689	688	691	686	689	687	689	687	688	688	689	685	690	686	685	688	691	687	687	686	687	689	684	687	693	687	690	691	692	685	
TBIN	U002	629	633	634	632	632	604	652	694	651	653	653	653	602	603	602	602	601	602	692	691	685	687	690	689	693	695	692	691	691	687	693	689	691	695	691	695	691	694	685	695	691	691	691	691	691	692	694		
TBIN	U003	631	450	282	197	131	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	0	0	0	0	0	0	0	0	0	0	0	0	0			
TBIN	U004	983	982	983	906	888	796	783	783	781	783	782	782	782	779	784	783	783	783	784	878	951	954	951	953	952	951	953	953	952	983	983	984	983	983	983	983	983	983	983	982	983	983	984	982	982	982			
Total ST-Coal		10345	10009	9852	9472	9151	8725	8740	9010	8809	8807	8811	8807	8713	8718	8704	8613	8614	8770	9142	9482	9809	9916	10036	10026	9872	9729	9603	9747	9834	10218	10234	10066	10005	9824	9606	9579	9568	9575	9444	9753	10167	10206	10193	10214	10192	10231	10217	10219	
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	209	224	226	214	351	370	267	347	366	365	365	362	362	354	312	223	322	357	365	360	360	360	356	360	363	346	355	357	363	350	367	355	355	364	370	358	362	374	361	352	355	359	352	211	218	213	212		
EMPP	BLK1	771	769	767	767	769	764	771	80	80	79	0	0	0	0	0	0	0	0	0	0	183	188	751	755	757	759	760	755	8	0	0	0	0	186	186	215	0	0	78	56	15	0	18	17	17	16	0		
EMPP	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	29	177	178	177	178	576	713	714	719	728	722	721	721	467	483	594	724	727	729	734	733	731	733
GLGR	GT01	69	69	68	69	69	69	69	70	68	70	69	71	69	69	70	69	70	68	69	68	69	69	68	68	68	68	86	103	68	68	68	68	68	68	69	68	68	69	80	108	108	108	108	107	107	107	108		
GLGR	GT02	67	67	66	67	67	66	67	67	66	66	67	67	66	67	67	67	67	66	67	67	66	65	66	66	66	66	66	85	102	66	66	66	66	66	67	66	66	66	80	106	106	106	106	106	106	106	106		
GLGR	ST1C	72	72	72	72	72	72	72	72	73	72	72	72	72	72	72	72	72	72	72	73	72	73	73	73	73	73	73	80	94	78	73	73	73	73	73	73	73	73	78	98	97	98	98	97	98	97	97		
NPRI	BLK1	493	515	514	501	503	525	506	510	521	515	515	509	517	517	500	514	516	517	516	515	516	510	514	502	514	514	494	511	512	515	494	514	504	505	514	512	511	512	514	518	499	502	514	510	498	511	503	498	
NPRI	BLK2	355	229	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PCGP	PGRG	261	262	410	591	588	600	590	597	610	603	602	593	605	604	584	603	603	606	603	601	603	603	603	582	602	603	575	597	598	602	572	600	592	588	603	604	599	601	600	606	580	589	604	524	481	402	402	260	
PLPS	GT11	108	115	116	130	127	128	129	129	128	129	129	129	129	129	129	129	129	129	128	129	129	129	129	129	129	129	129	128	129	129	130	128	129	128	129	129	128	126	121	141	136	135	140	136	135	138	137	135	
PLPS	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	0	0	5	137	137	142	138	137	138	137	136	
PLPS	GT13	106	112	112	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	74	116	139	133	133	140	135	134	137	134	135
PLPS	ST18	129	133	133	132	58	59	59	58	57	56	57	57	57	57	57	58	57	57	57	57	57																												

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	
CEND	HY02	0	0	0	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY03	9	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	125	63	-1	-1	
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	35	22	22	
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	36	22	22	
KNRG	HY03	23	25	24	24	24	25	24	24	25	25	25	37	37	37	37	37	37	37	37	37	36	35	23	24	
KNYR	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	
KNYR	HY02	55	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	103	103	97	96	
KNYR	HY03	-1	-1	-1	-1	-1	-1	53	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	56	58	54	101	
KNYR	HY04	52	60	61	59	56	102	55	61	102	75	61	61	85	58	58	73	85	79	91	63	88	63	53	57	
LPIA	HY01	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	16	16	16	0	
LPIA	HY02	14	14	14	14	14	14	14	14	14	12	12	12	12	15	15	15	14	14	14	14	14	10	10	0	
MNOR	HY01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	
PGAU	HY01	0	0	0	0	14	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	81	21	-1	
PGAU	HY02	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	4	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	31	50	30	50	30	30	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	
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	
SYPS	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	
TMGR	HY01	26	1	1	1	0	0	31	31	86	86	62	62	41	-1	1	0	0	0	0	0	0	0	0	0	0
TMGR	HY02	40	89	62	51	43	89	46	63	80	46	45	45	46	49	43	45	48	68	49	60	45	59	46	44	
TMGR	HY03	0	0	0	0	0	0	0	30	-1	0	0	0	0	0	0	0	0	32	32	0	0	0	0	0	
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	31	31	31	31	30	-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	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	87	86	95	-1	
UPIA	HY01	5	5	5	5	5	4	4	5	3	3	4	4	4	4	4	4	4	4	4	4	4	4	5	5	
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Total Hydro		266	245	219	214	215	314	232	371	400	340	297	296	268	253	222	230	248	375	346	311	266	325	289	275	
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	2	6	10	14	17	21	23	21	21	27	28	26	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	10	13	9	22	16	16	30	29	29	24	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	7	12	17	22	25	28	29	30	30	30	30	18	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	5	10	13	26	28	32	35	38	29	28	17	13	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	37	39	36	32	37	44	47	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	7	11	16	11	15	21	29	29	24	21	25	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	9	17	25	31	37	41	45	48	50	40	41	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	7	9	15	19	30	38	40	29	31	27	50	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	8	16	22	28	33	36	39	26	44	48	28	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	16	20	23	26	28	30	28	30	20	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	13	21	12	30	14	46	50	50	50	50	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	10	20	29	34	50	48	52	52	37	52	23	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	7	16	21	27	30	35	39	41	43	24	44	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	11	12	7	19	15	25	19	19	31	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	3	38	104	183	242	323	396	449	476	468	473	494	
PCUF	CUFG	3	4	4	4	3	5	4	3	3	3	4	3	3	4	4	3	4	3	4	3	4	3	4	3	

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		
PCUF	CUFK	3	2	2	3	5	4	4	4	3	3	3	2	5	3	3	4	4	1	3	2	5	2	1	5	3	2	6	3	5	3	2	3	2	4	4	5	4	1	2	3	4	5	3	5	4	4	2	3	
Total Co-Gen		6	6	6	7	8	9	8	7	6	6	7	5	10	7	7	8	8	3	7	5	8	6	5	8	6	5	10	7	8	7	5	7	5	8	8	10	8	5	6	6	8	9	6	9	8	8	5	7	
Total Gen		15527	15069	14796	14561	14200	13940	13746	13591	13334	13256	13139	13109	13015	13005	12974	12657	12620	13314	13764	14158	14582	14925	15141	15425	15229	15135	15067	15267	15528	15701	15887	15746	15704	15643	15356	15069	14928	14791	14905	15913	16460	16358	16331	16184	15914	15776	15759	15465	
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	0	0
TIE-HVDC		-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	
TIE-PLTG		60	-43	-26	55	-21	-68	-4	4	-37	8	-44	28	-46	-21	42	-16	-56	-9	-66	-23	-52	-55	14	8	8	6	23	5	16	-20	105	-36	-36	-23	-22	-40	-15	-17	-66	8	46	-28	-7	-11	53	-29	34	10	
Interconnection		30	-73	-56	25	-51	-98	-34	-26	-67	-22	-74	-2	-76	-51	12	-46	-86	-39	-96	-53	-82	-85	-16	-22	-22	-24	-7	-25	-14	-50	75	-66	-66	-53	-52	-70	-45	-47	-96	-22	16	-58	-37	-41	23	-59	4	-20	
System Total		15497	15142	14852	14536	14251	14038	13780	13617	13401	13278	13213	13111	13091	13056	12962	12703	12706	13353	13860	14211	14664	15010	15157	15447	15251	15159	15074	15292	15542	15751	15812	15812	15770	15696	15408	15139	14973	14838	15001	15935	16444	16416	16368	16225	15891	15835	15755	15485	
SRev ST-Coal		712	832	785	1153	1028	1123	925	840	932	927	929	925	964	964	970	962	958	945	798	779	605	508	507	573	591	620	631	719	714	494	476	481	492	577	577	576	583	580	716	616	358	325	338	317	339	300	314	312	
SRev CCGT-Gas		1177	1198	986	837	668	596	730	602	333	348	348	371	348	345	331	569	660	310	286	273	196	274	199	481	507	491	601	528	381	138	211	358	304	238	369	374	532	440	373	279	154	152	328	442	660	691	720	958	
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
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	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	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	0	0
Syncon		839	940	940	940	940	810	1091	903	1091	1004	1004	1004	1091	1122	1091	1091	1091	990	990	1091	1091	940	940	940	1091	1091	1091	1091	1091	803	889	990	803	716	803	990	990	990	990	464	338	338	802	615	615	615	615	615	615
Hydro		267	101	127	132	151	182	143	278	117	178	221	222	163	91	153	126	108	168	197	95	140	232	268	282	143	144	154	184	180	227	285	51	246	249	274	231	177	186	259	283	520	311	319	398	402	425	390	387	
S.Reserve Total		2995	3157	2924	3148	2873	2797	2975	2623	2473	2543	2588	2608	2652	2608	2631	2834	2903	2413	2271	2324	2118	2040	2000	2362	2418	2432	2563	2608	2452	1662	1947	1966	1931	1866	2109	2257	2368	2282	1898	1516	1370	1590	1600	1772	2016	2058	2066	2299	