

Daily System Generation Summary on Saturday

Saturday, November 21, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,147 MW
Distillate	0 MW
Total TNB	2,147 MW
Total IPP	14,674 MW
Total Co-Gen	0 MW
Total System	19,644 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,274	5.43 %
Gas	44,032	13.09 %
Total TNB	62,306	18.52 %
ST-Coal	219,358	65.22 %
LSS	1,839	0.55 %
Gas	51,907	15.43 %
Total IPP	273,104	81.20 %
Co-Gen	206	0.06 %
Total Co-Gen	206	0.06 %
Total Generation	335,616	99.78 %
PLTG	-39	-0.01 %
HVDC	-695	-0.21 %
Interconnection	-734	-0.22 %
Net Energy	336,350	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	16,124 MW
TNB Generation	3,619 MW
IPP Generation	11,622 MW
Spinning Reserve	874 MW
Maximum Demand	15,362 MW
Net Energy	336,350 MWH
Load Factor	91.23 %

Fuel Cost

Total Cost:	41,082,809.56 RM
Cost per Unit	12.24 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	266
Hydro	321
Syncon	617
Thermal	427
Total	1,631

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	36
TJGS	195
Total TNB	230
CBPS	49
NPRI	157
PGLA	5
SKSP	10
YPKA	25
Total IPP	247
Total Gas	477
Total Gas Required	477

Alternate Fuel Usage

Station	(mmcsfd)
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	14682	14098	13495	13151	12909	12647	12657	12552	12447	13564	14353	14760	14774	14483	14812	14712	14631	14319	14302	14945	15167	14858	14324	14018

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, December 1, 2020 9:55:50 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	521	521	521	522	522	520	521	522	523	449	452	450	451	451	452	452	522	522	522	527	528	527	527	515	527	527	527	599	671	695	693	692	693	694	694	693	693	695	693	694	691	692	692	693	693	693	693	692	693	696	
JMAH	U002	374	373	372	376	373	372	373	376	374	375	374	373	373	372	374	374	369	374	387	457	485	478	477	477	478	485	531	529	574	692	694	692	695	697	694	693	695	693	694	695	692	694	694	696	694	696	694	696			
JMHE	U001	961	900	899	901	903	900	795	778	782	781	781	781	783	780	783	781	782	782	781	919	940	942	940	939	939	937	938	939	939	753	515	319	321	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JMHE	U002	981	899	900	902	904	901	778	779	779	780	782	780	779	781	784	780	783	781	778	940	939	943	941	937	938	939	942	942	939	938	936	941	940	939	939	938	944	935	942	938	939	938	938	939	938	938	941	941	939	939	
JMJG	U001	667	678	673	622	593	588	599	596	594	544	548	544	554	557	538	453	450	531	594	673	676	596	597	598	599	482	387	387	388	393	397	425	447	447	447	447	447	447	447	446	447	448	447	450	448	449	447	447	447		
JMJG	U002	670	672	672	623	597	601	607	599	598	544	546	548	550	548	538	449	450	513	550	596	675	677	595	601	596	530	479	381	391	390	387	391	391	390	409	416	417	420	420	423	395	399	399	400	401	400	397	506	506		
JMJG	U003	666	677	662	637	593	596	596	594	596	542	539	549	542	548	534	486	457	503	555	629	662	554	512	431	439	432	436	381	391	386	383	387	387	387	394	400	405	426	442	446	495	498	517	540	543	615	680	668	668		
JMJG	U004	713	705	703	705	705	704	704	705	705	704	704	703	703	704	703	705	703	703	705	705	700	703	776	807	867	943	943	941	940	940	940	940	942	942	943	939	941	942	940	941	940	941	942	941	940	938	941	941			
JMJG	U005	703	700	702	701	701	701	700	706	725	733	731	731	727	731	731	732	732	733	729	732	750	768	801	800	801	800	801	801	798	798	800	800	798	798	800	799	800	796	798	801	801	799	800	803	801	801	797	801	801		
PKLG	U003	282	279	278	278	279	279	281	280	279	280	278	280	279	279	279	276	279	281	279	281	279	279	282	284	280	280	279	281	282	279	287	280	279	281	280	280	279	282	280	278	279	280	276	281	279	281	283	283			
PKLG	U005	466	468	480	468	471	466	465	467	469	468	467	470	470	468	467	466	468	468	467	460	466	467	467	469	472	467	464	468	468	466	468	466	464	467	468	460	466	467	460	466	468	468	468	470	469	462	464	464			
PKLG	U006	449	449	449	447	447	446	449	451	449	449	450	451	448	448	449	448	447	447	450	449	449	448	449	449	451	447	447	451	448	448	448	448	449	449	449	449	449	447	449	449	447	450	449	452	448	449	447	447	448		
TBIN	U002	689	691	692	691	689	692	686	692	690	690	688	689	693	687	688	693	689	689	692	687	690	690	692	689	691	691	687	690	688	692	693	686	693	688	690	691	691	689	690	693	689	690	688	690	692	690	690	690	690		
TBIN	U003	690	687	691	691	687	692	692	688	691	690	689	699	684	692	690	689	691	692	698	688	689	692	690	694	690	687	686	687	690	690	688	692	687	690	691	689	687	691	691	689	693	690	689	691	689	689	690	692	690	692	
TBIN	U004	982	911	902	903	901	903	875	784	783	782	782	783	782	784	780	783	782	782	783	863	943	943	942	944	942	943	941	942	943	942	943	943	943	943	943	943	943	943	941	943	942	943	942	943	941	944	944				
Total ST-Coal		9814	9610	9596	9467	9365	9361	9121	9016	9037	8812	8811	8832	8818	8830	8789	8565	8541	8801	8950	9518	9774	9764	9619	9613	9640	9623	9531	9303	9434	9313	9142	9084	9106	8801	8841	8854	8847	8870	8902	8887	8929	8925	8948	8974	8980	9054	9098	9211	9211		
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	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	0	0	
CBPS	BLK2	354	356	288	223	223	226	227	220	222	224	224	220	225	222	224	223	217	232	296	332	367	364	363	363	363	366	362	366	363	365	365	366	366	362	363	370	361	365	362	362	349	352	346	349	348	356	348	348			
GLGR	GT01	67	67	68	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	73	90	108	107	100	92	68	68	68	68	69	68				
GLGR	GT02	68	67	68	96	100	96	95	95	96	95	96	95	96	95	96	96	96	95	109	108	108	108	109	108	109	108	109	108	109	108	108	108	95	93	109	108	100	91	67	68	68	68	68	68	68	68	68				
GLGR	ST1C	72	73	73	41	40	40	40	40	40	40	40	40	40	40	40	40	40	39	40	44	45	46	46	46	47	46	45	45	45	45	45	45	45	44	37	81	95	96	91	89	73	72	72	72	72	72	72				
NPRI	BLK1	505	502	511	509	511	511	511	508	511	511	509	510	511	508	511	513	508	516	501	510	513	509	511	510	510	506	518	512	514	511	512	510	511	511	508	522	511	520	511	508	505	506	511	510	506	511	509	509			
NPRI	BLK2	515	513	521	522	521	522	523	523	521	523	523	522	520	523	520	523	525	520	526	512	521	523	522	522	522	521	517	530	521	525	521	523	522	523	523	519	533	520	530	524	520	513	518	523	523	518	523	521	521		
PCGP	PGRG	597	591	601	600	605	603	602	603	599	602	601	604	602	602	599	602	606	598	610	589	601	603	602	602	603	603	596	612	601	608	602	603	601	604	604	599	620	602	611	602	597	595	597	602	602	597	604	603	603		
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	218	218	218	218	218	77	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	0	0	0	8	57	97	174	336	240	238	224	277	314	220	236	223	223			
SPGP	BLK2	750	748	745	742	576	350	351	337	332	332	324	325	361	360	360	361	361	749	746	740	737	734	735	732	732	728	725	726	731	743	747	749	749	747	368	308	302	308	307	309	310	309	172	0	0	0	207	207			
TJGS	GT1A	197	201	148	149	152	150	171	162	150	164	158	146	146	166	162	130	138	149	237	163	188	233	231	180	206	218	226	234	235	231	227	226	212	204	208	233	234	227	232	218	219	223	238	232	235	214	173	154	154		
TJGS	GT1B	183	190	137	140	138	140	159	151	141	152	136	134	134	155	151	118	126	142	220	156	177	217	217	171	191	209	211	219	221	212	218	219	202	198	197	213	226	215	223	208	204	211	216	220	217	205	158	143	143		
TJGS	ST1C	213	231	183	179	179	186	181	204	185	176	181	1																																							

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	
KNRG	HY01	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
KNRG	HY02	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	
KNRG	HY03	36	36	36	36	36	36	36	36	35	36	36	36	36	37	37	37	25	25	26	24	25	26	25	25	
KNYR	HY01	64	64	66	97	71	92	98	64	63	65	66	65	64	82	71	81	98	70	98	64	80	64	65	65	
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	99	99	99	99	99	99	99	
KNYR	HY04	60	61	66	95	67	91	89	64	62	64	65	63	87	71	71	96	73	96	60	62	78	64	63	66	
LPIA	HY01	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
LPIA	HY02	23	23	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	23	23	23	23	23	23	23	
MNOR	HY01	6	6	6	6	5	5	5	5	5	5	5	5	3	3	3	3	4	4	4	4	4	4	1	1	
PGAU	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	21	21	
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	
SIHY	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	
SIHY	HY02	50	50	50	30	30	30	30	30	30	30	30	30	30	0	0	0	0	0	50	50	50	50	50	0	
SIHY	HY03	50	50	50	30	30	30	30	30	30	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY01	17	17	17	17	17	17	17	17	17	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY02	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY03	17	17	17	17	17	17	17	17	17	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY04	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	34	64	64	64	64	83	
TMGR	HY02	43	42	54	87	48	81	88	44	44	44	44	44	44	70	59	73	88	57	75	43	43	54	44	44	
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	
TMGR	HY04	31	29	-1	-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	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	103	99	99	99	98	-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	
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	
Total Hydro		633	610	574	593	499	577	588	485	481	486	488	488	484	409	346	371	407	324	396	340	344	418	380	535	
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	0	2	5	5	5	14	8	12	15	21	13	12	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	13	16	21	27	24	17	31	25	13	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	13	18	22	27	30	29	30	30	27	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	15	17	18	21	10	4	7	12	15	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	4	11	16	17	16	23	29	35	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	9	11	12	20	17	18	18	3	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	13	18	25	30	39	39	44	46	45	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	12	15	14	17	17	15	10	39	13	2	10	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	13	18	24	30	33	37	43	41	29	40	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	9	18	23	13	13	13	20	28	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	11	19	27	28	30	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3	10	12	8	25	47	38	30	10	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	2	4	10	12	27	28	22	26	2	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	6	9	12	18	17	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	8	45	92	122	176	204	250	277	323	329	281	
PCUF	CUFG	5	4	5	6	7	5	6	5	6	6	7	5	6	6	6	5	5	6	5	5	5	7	6	5	
PCUF	CUFK	4	3	3	4	5	3	2	1	3	4	4	4	2	3	2	4	3	2	3	4	3	2	2	3	
Total Co-Gen		9	7	8	10	12	8	8	6	9	10	10	11	7	9	8	10	10	8	8	9	9	8	9	10	8

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																									
Total Gen		14685	14323	14080	13845	13478	13328	13134	12909	12877	12684	12658	12664	12672	12666	12542	12280	12361	12986	13504	13894	14302	14659	14723	14808	14759	14578	14485	14646	14727	14812	14658	14592	14591	14531	14277	14187	14240	14334	14849	15250	15100	14979	14792	14514	14282	14069	13953	13764	
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	
TIE-HVDC		-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-30	-30	-29	-30	-29	-29	-29	-29	-30	-30	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29		
TIE-PLTG		39	93	17	-5	20	34	20	37	4	12	48	30	52	50	27	-4	-51	-10	-23	11	-13	-15	0	-25	21	49	39	-28	-50	-27	-18	-1	-2	-43	-5	17	-25	-27	-58	-75	-30	-39	-30	-55	-5	-2	-28	-3	
Interconnection		10	65	-11	-34	-9	6	-9	9	-24	-17	19	1	23	21	-2	-33	-79	-40	-53	-19	-43	-45	-29	-54	-7	19	10	-57	-78	-56	-47	-31	-32	-72	-34	-12	-54	-57	-88	-104	-59	-67	-58	-84	-34	-31	-57	-33	
System Total		14682	14265	14098	13887	13495	13330	13151	12908	12909	12709	12647	12671	12657	12653	12552	12320	12447	13033	13564	13921	14353	14712	14760	14870	14774	14567	14483	14710	14812	14875	14712	14631	14631	14611	14319	14207	14302	14399	14945	15362	15167	15054	14858	14606	14324	14108	14018	13805	
SRev ST-Coal		453	649	667	799	857	862	847	864	851	849	855	834	856	855	858	856	850	849	840	742	566	553	487	470	461	500	485	720	437	387	403	214	192	220	190	217	239	216	184	234	197	217	223	227	221	147	243	130	
SRev CCGT-Gas		508	638	830	953	809	801	767	768	814	785	807	825	831	774	793	866	835	822	550	720	599	349	129	235	202	179	158	84	116	110	121	98	143	154	141	164	54	129	92	144	251	291	307	355	324	471	555	630	
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	839	926	926	926	926	926	926	926	926	926	926	926	775	926	926	926	926	926	926	926	926	926	738	839	1027	1027	638	638	551	313	464	313	187	187	187	374	187	193	6	0	151	338	338	338	525	651	752	
Hydro		239	238	163	93	187	109	98	201	205	200	198	198	202	198	110	86	50	133	61	166	162	118	156	209	225	120	144	219	262	360	532	406	540	561	462	485	374	592	528	490	702	627	483	459	479	433	380	440	
S.Reserve Total		2039	2364	2586	2771	2779	2698	2638	2759	2796	2760	2786	2783	2815	2602	2687	2734	2661	2730	2377	2554	2253	1946	1698	1652	1727	1826	1814	1661	1453	1408	1369	1182	1188	1122	980	1053	1041	1124	997	874	1150	1286	1351	1379	1362	1576	1829	1952	