

Daily System Generation Summary on Saturday

Saturday, November 27, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,397 MW
Distillate	0 MW
Total TNB	2,397 MW
Total IPP	14,773 MW
Total Co-Gen	0 MW
Total System	19,887 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,796	3.78 %
Gas	39,236	11.59 %
Total TNB	52,032	15.37 %
ST-Coal	184,413	54.48 %
LSS	2,402	0.71 %
Gas	98,377	29.06 %
Total IPP	285,192	84.25 %
Co-Gen	1,216	0.36 %
Total Co-Gen	1,216	0.36 %
Total Generation	338,440	99.98 %
PLTG	647	0.19 %
HVDC	-698	-0.21 %
Interconnection	-51	-0.02 %
Net Energy	338,491	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	17,085 MW
TNB Generation	2,834 MW
IPP Generation	12,903 MW
Spinning Reserve	1,298 MW
Maximum Demand	15,833 MW
Net Energy	338,491 MWH
Load Factor	89.08 %

Fuel Cost

Total Cost:	71,577,955.43 RM
Cost per Unit	21.14 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	472
Hydro	256
Syncon	968
Thermal	637
Total	2,333

Time	Weather	Temperature
Afternoon	Hot	36
Morning	Sunny	26

Gas Usage

Station	(mmcsfd)
GLGR	53
TJGS	105
Total TNB	158
CBPS	54
KLPP	48
NPRI	158
PGLA	105
Total IPP	364
Total Gas	522
Total Gas Required	522

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	14215	13574	13177	12792	12517	12293	12353	12327	12359	13504	14198	14749	14628	14486	14965	15107	15106	14934	14791	15435	15670	15372	15025	14691

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, December 6, 2021 7:03:34 PM

(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	406	351	358	355	356	354	353	310	303	301	306	303	307	305	305	356	457	602	655	660	605	603	607	557	554	694	691	679	675	677	686	692	686	690	689	686	688	693	691	690	601	654	658	605	504	474			
JMAH	U002	403	355	357	354	355	354	352	302	303	305	304	305	305	304	303	303	304	354	454	610	655	654	606	605	603	555	557	666	697	691	700	693	679	695	692	696	694	695	694	697	692	696	607	659	654	603	504	479	
JMHE	U001	977	898	907	902	849	849	847	850	851	848	850	849	848	855	845	842	851	849	852	851	850	850	918	924	948	951	950	951	956	953	953	949	950	953	947	954	952	954	953	976	978	978	981	975	979	979	977	977	
JMHE	U002	979	778	788	785	781	516	316	322	320	134	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
JMJG	U001	593	593	539	503	509	506	508	504	439	444	449	446	447	467	507	508	507	593	629	626	664	671	671	673	670	672	631	593	601	596	594	596	596	598	592	596	596	598	615	623	613	618	618	618	616	612	525		
JMJG	U002	598	596	537	512	508	512	510	483	447	449	447	448	450	449	468	512	508	508	590	675	668	682	669	677	672	672	673	626	594	598	601	597	598	597	604	596	598	601	598	615	619	615	619	620	621	621	611	530	
JMJG	U003	591	595	533	504	502	507	507	481	458	457	456	456	456	472	497	506	505	581	653	666	665	663	664	662	667	666	631	594	593	596	593	596	595	596	590	593	596	600	612	615	614	616	616	613	618	612	598		
JMJG	U004	971	925	900	902	854	851	850	853	852	850	851	852	854	852	853	854	853	853	850	852	851	904	922	948	952	952	952	953	951	952	952	952	951	952	952	949	950	949	973	971	953	952	953	954	953	951			
JMJG	U005	889	891	892	892	848	848	850	851	850	849	852	848	849	850	849	849	853	851	848	851	849	853	891	891	890	895	889	895	894	889	891	890	892	892	891	891	899	892	889	887	895	892	892	892	891	891	892		
PKLG	U003	152	152	152	152	152	153	153	151	153	152	152	153	153	154	153	155	151	152	152	151	151	152	152	153	149	151	151	152	152	152	159	210	208	207	250	250	252	251	252	228	157	146	153	151	149	160	152		
PKLG	U004	156	157	158	156	157	157	155	159	157	157	157	158	157	158	157	156	156	157	156	157	156	157	157	157	156	165	156	157	157	156	163	210	207	206	246	249	253	250	252	226	154	151	158	153	157	155	155		
PKLG	U006	268	268	267	271	269	269	267	267	267	270	270	270	270	269	269	268	268	267	269	267	268	270	269	270	269	268	267	310	358	358	358	360	359	360	414	446	449	446	450	433	372	284	267	269	265	269	267		
TBIN	U001	350	351	326	303	304	302	301	302	303	302	301	302	303	302	301	302	302	350	401	401	451	475	526	551	551	504	503	502	601	604	692	691	690	691	690	689	688	689	687	689	689	680	599	631	597	552	494	449	
TBIN	U002	354	355	310	302	302	303	302	303	303	302	302	303	302	305	303	300	302	358	404	404	457	455	538	554	551	505	503	502	603	603	690	690	689	691	691	690	690	690	691	691	690	675	608	632	601	552	493	453	
TBIN	U003	354	352	309	302	301	301	301	302	301	304	304	302	302	303	302	301	301	353	403	400	456	467	523	552	549	501	501	500	577	602	690	691	689	691	690	689	690	689	690	691	691	670	599	633	598	551	501	453	
Total ST-Coal		8041	7617	7333	7195	7047	6782	6572	6440	6307	6126	6098	5994	6000	6010	6042	6148	6173	6421	7011	7504	7759	7852	8093	8192	8234	8003	8004	8124	8372	8431	8702	8697	8797	8818	8810	8939	8983	8992	8984	9093	9041	8759	8273	8461	8357	8113	7736	7355	
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	
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
CBPS	BLK2	353	357	367	357	359	359	351	353	360	363	362	360	360	374	348	354	250	360	369	354	355	360	355	361	351	355	356	358	359	369	346	349	349	357	351	372	362	361	356	356	355	353	353	346	352	361	356	360	
EMPP	BLK1	208	209	210	217	375	376	743	756	756	757	758	758	760	759	772	770	768	768	764	761	756	753	753	755	758	758	757	756	748	744	748	524	348	373	374	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EMPP	BLK2	761	769	412	373	768	767	375	374	375	376	374	375	375	375	523	769	374	374	373	374	374	375	375	375	375	374	374	373	371	373	373	374	373	373	751	0	0	0	0	0	0	0	369	760	764	762	764	765	765
EMPP	BLK3	501	499	500	500	375	375	375	374	375	376	374	375	375	375	13	14	13	196	375	376	375	375	375	376	375	519	518	667	669	669	746	742	745	749	744	746	749	748	750	753	754	754	374	375	375	756	759		
GLGR	GT01	67	68	69	69	68	70	68	70	68	68	69	69	69	68	67	68	80	103	104	105	104	102	102	104	104	105	104	104	104	104	104	103	104	104	104	103	104	104	103	104	104	104	104	104	104	104	104	105	
GLGR	GT02	68	68	68	69	68	68	68	68	68	68	68	68	68	68	68	68	81	104	104	105	104	104	104	104	104	104	104	104	103	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	103	104	
GLGR	ST1C	71	71	72	71	71	71	71	71	71	71	71	71	71	71	71	71	75	93	93	94	94	94	93	94	94	94	94	94	95	94	94	93	94	93	94	93	94	93	94	94	94	94	93	93	93	93	93		
KLPP	GT13	123	127	135	127	127	130	124	127	128	128	127	128	129	137	138	126	127	131	132	126	127	135	135	129	125	128	128	130	129	135	125	128	129	132	127	138	132	133	132	132	132	132	132	128	129	132	129	132	
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	110	140	140	140	140	140	140	140	140	140	140	140	
KLPP	ST17	66	66	68	66	67	66	65	66	66	67	66	66	67	67	67	65	66	67	66	65	66	66	66	66	66	66	66	66	66	65	66	65	67	66	57	119	143	143	143	143	143	143	143	143	143	143	142	143	
NPRI	BLK1	503	504	532	512	514	518	501	513	511	519	516	518	516	538	500	498	518	519	525	513	514	516	515	511	501	506	512	516	515	529	502	517	516	521	505	530	513	514	515	511	509	509	508	502	505	516	504	517	
NPRI	BLK2	480	491	530	509	515	522	485	515	514	523	518	520	520	541	490	494	521	524	534	499	516	525	520	512	485	503	516	519	516	526	483	518	517	526	494	529	516	517	518	511	512	508	497	485	494	519	488	518	
PCGP	PGRG	586	590	626	599	599	605	586	599	597	604	603	607	604	634	587	583	606	610	615	602	303	303	304	301	301	303	303	301	301	316	304	303	301	310	301														

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																								
HTRG	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																								
KNRG	HY01	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35																								
KNRG	HY02	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	HY03	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35																								
KNYR	HY01	-1	-1	-1	-1	-1	56	53	56	-1	-1	-1	-1	-1	93	-1	-1	-1	-1	-1	98	97	-1	55	-1																								
KNYR	HY02	-1	-1	-1	93	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	57	-1	-1																								
KNYR	HY03	51	51	60	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	96	55	54	48																								
KNYR	HY04	56	55	101	61	67	99	57	54	59	101	99	101	101	58	60	101	94	90	58	56	91	91	60	77																								
LPIA	HY01	21	21	21	21	21	21	21	21	21	21	21	21	21	21	18	18	18	20	20	20	20	20	22	22																								
LPIA	HY02	22	22	22	22	22	22	22	23	22	22	22	22	22	22	22	22	22	20	20	20	20	23	22	22																								
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3																								
PGAU	HY01	-1	-1	19	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	20	-1	-1																								
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	30																								
SIHY	HY03	50	49	50	50	50	50	50	50	30	30	30	30	50	50	50	50	50	49	0	0	50	50	50	50																								
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17																								
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	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	17	17	17	17	17	17																								
TMGR	HY01	-1	-1	-1	-1	-1	31	33	33	-1	-1	-1	-1	0	0	0	0	0	0	0	30	-1	-1	0	32																								
TMGR	HY02	42	48	86	50	66	87	45	55	54	87	88	87	87	46	46	87	84	82	41	45	87	86	47	69																								
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																								
TMGR	HY04	39	43	83	50	61	83	-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	94	-1	-1	-1	-1	-1	-1	-1	-1	-1	93																								
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	101	93	88	91																								
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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5																								
Total Hydro		446	454	608	575	452	526	448	454	461	426	424	447	425	426	338	412	446	720	523	376	378	480	450	405	328	329	379	357	308	372	328	386	406	453	434	643	568	454	768	1130	1045	884	766	973	770	706	658	678
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	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	1	3	4	7	8	11	17	22	16	29	27	24	22	26	13	7	4	5	7	7	1	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	2	4	9	10	13	15	19	16	10	14	20	25	20	31	25	17	18	14	2	3	1	1	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	3	6	8	10	12	16	22	32	32	32	30	22	18	17	22	28	23	9	15	8	3	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	2	5	11	19	15	19	21	27	23	23	37	32	39	36	39	40	36	34	31	13	11	2	1	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	1	3	5	7	11	11	14	12	12	12	13	12	12	5	4	7	7	6	4	5	6	4	2	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	3	5	9	11	17	22	32	34	38	27	23	27	15	15	21	12	13	19	18	15	7	2	0	0	0	0	0	0	0	0	0	0		
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	8	11	14	15	14	15	12	14	15	11	8	11	8	9	9	10	5	4	1	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	1	4	6	10	13	16	21	28	36	40	43	32	31	36	16	16	14	11	3	6	2	1	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	1	1	4	9	12	25	27	29	30	30	30	30	30	28	27	25	30	26	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	17	24	4	11	37	23	32	29	44	30	45	28	15	14	13	10	5	2	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	2	8	19	23	24	26	23	37	28	30	39	30	19	30	36	52	40	35	30	20	19	9	4	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	1	3	10	15	18	18	20	36	28	27	24	34	31	41	13	23	25	28	3	13	1	1	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	1	3	7	15	15	25	18	14	10	12	12	22	21	22	16	13	10	9	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	8	6	8	15	26	15	11	11	16	20	7	6	3	3	3	4	5	3	2	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	10	41	86	136	178	226	254	334	335	330	353	338	359	324	292	296	254	238	163	130	87	38	12	0	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	28	26	25	25	26	26	27	26	26	25	24	25	25	26	25	25	24	24	24	24	23	23	22	23	27	25	26	24	25	24	25	25	24	25	26	25	25	24	25	26	25	25	26	25	24	26	25	
PCUF	CUFK	27	25	28	26	26	26	24	26	25	23	26	26	26	27	25	25	26	27	26	25	25	23	25	23	25	29	28	25	26	24	26	26	30	29	26	24	29	25	24	26	27	26	24	22	26	24	27	
Total Co-Gen		55	51	53	51	51	52	50	53	51	49	51	50	51	52	50	51	52	52	50	50	47	49	47	47	48	52	50	48	53	49	52	50	55	53	51	49	53	50	50	51	52	51	50	47	50	50	52	
Total Gen		14237	13806	13496	13371	13178	13011	12811	12658	12527	12351	12300	12364	12346	12501	12361	12184	12290	12942	13453	13854	14180	14430	14709	14741	14636	14466	14465	14684	14966	15139	15209	15119	15104	15145	15011	14841	14832	14844	15330	15787	15652	15575	15352	15318	15052	14815	14685	14411
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

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																								
TIE-HVDC		-31	-28	-30	-29	-29	-30	-29	-29	-29	-29	-29	-28	-29	-29	-28	-30	-29	-30	-29	-28	-29	-30	-28	-28	-29	-29	-30	-28	-28	-28	-28	-28	-30	-30	-30													
TIE-PLTG		60	54	-41	56	37	5	56	20	45	3	42	17	28	19	69	39	-33	-29	-17	37	18	1	-5	24	45	29	13	-38	37	50	136	84	33	34	113	16	76	25	-69	-9	17	25	14	43	60	29	32	-8
Interconnection		29	26	-71	27	8	-25	26	-8	17	-25	13	-12	-1	-10	41	10	-62	-58	-45	7	-12	-29	-33	-5	15	0	-15	-68	7	21	108	55	4	5	84	-12	48	-5	-98	-39	-11	-3	-14	15	33	-1	2	-38
System Total		14215	13787	13574	13351	13177	13043	12792	12673	12517	12383	12293	12382	12353	12517	12327	12181	12359	13007	13504	13853	14198	14465	14749	14753	14628	14473	14486	14758	14965	15124	15107	15070	15106	15146	14934	14860	14791	14856	15435	15833	15670	15585	15372	15309	15025	14822	14691	14457
SRev ST-Coal		748	948	956	860	902	908	1105	1093	1099	995	1033	904	898	897	900	900	894	899	901	806	693	681	707	682	637	624	628	645	637	665	472	486	490	461	478	454	426	429	436	377	388	484	745	690	692	745	743	744
SRev CCGT-Gas		517	536	396	290	632	643	522	569	572	532	555	413	415	301	365	515	746	268	213	376	500	471	485	506	571	535	715	619	623	530	689	648	629	585	657	527	521	382	222	236	245	251	258	312	268	200	246	164
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
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
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
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
Syncon		1153	1153	1002	1052	1153	1153	1052	1052	1052	1240	1240	1089	1240	1240	1240	1153	1153	764	1052	1153	1153	1002	1153	1153	1153	1153	1153	1153	1002	1153	1153	1153	1153	1153	952	952	902	591	403	403	403	591	490	591	879	728	966	
Hydro		236	228	225	208	130	56	235	229	222	69	73	200	71	70	157	84	50	165	100	146	144	193	71	116	193	192	143	115	315	100	194	186	166	119	177	165	240	329	265	291	486	647	578	472	574	350	560	317
S.Reserve Total		2654	2865	2579	2410	2817	2760	2914	2943	2945	2836	2901	2606	2624	2508	2662	2652	2843	2096	2266	2481	2490	2347	2416	2457	2554	2504	2639	2532	2577	2448	2508	2473	2438	2318	2465	2098	2139	2042	1514	1307	1522	1785	2172	1964	2125	2174	2277	2191