

Daily System Generation Summary on Saturday

Saturday, March 27, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,335 MW
Distillate	0 MW
Total TNB	2,335 MW
Total IPP	17,259 MW
Total Co-Gen	0 MW
Total System	22,853 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,518	4.19 %
Gas	57,316	16.53 %
Total TNB	71,834	20.72 %
ST-Coal	224,896	64.88 %
LSS	3,197	0.92 %
Gas	46,886	13.53 %
Total IPP	274,979	79.33 %
Co-Gen	238	0.07 %
Total Co-Gen	238	0.07 %
Total Generation	347,051	100.12 %
PLTG	-314	-0.09 %
HVDC	724	0.21 %
Interconnection	410	0.12 %
Net Energy	346,641	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	17,203 MW
TNB Generation	3,911 MW
IPP Generation	11,965 MW
Spinning Reserve	1,320 MW
Maximum Demand	15,863 MW
Net Energy	346,641 MWH
Load Factor	91.05 %

Fuel Cost

Total Cost:	44,518,112.87 RM
Cost per Unit	12.81 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	456
Hydro	377
Syncon	591
Thermal	252
Total	1,676

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	49
SRDG	5
TJGS	191
Total TNB	245
CBPS	48
NPRI	151
YPKA	36
Total IPP	234
Total Gas	479
Total Gas Required	479

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	15087	14445	13899	13382	13023	12911	12810	12822	12632	13871	14560	14998	14923	14681	15179	15406	15417	15102	14723	14862	15863	15687	15373	15031

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 6, 2021 11:55:21 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	689	693	692	693	692	693	694	691	692	694	601	601	600	600	601	551	552	553	550	552	554	553	603	652	692	694	692	692	693	692	691	693	691	692	693	691	692	691	690	695	690								
JMAH	U002	695	690	696	700	698	696	693	697	695	697	603	606	604	603	605	552	556	556	554	557	557	556	605	655	696	696	697	695	693	696	694	693	695	694	695	698	695	698	697	697	693	694	694	697	699	694	698		
JMHE	U001	751	621	393	319	321	321	320	321	315	318	317	313	312	315	313	313	279	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
JMHE	U002	982	986	979	983	924	849	849	849	848	852	850	851	850	854	849	850	853	851	847	907	896	912	961	957	959	981	980	978	979	978	980	982	982	983	976	981	981	982	978	980	978	982	980	979	982	983	977	978	
JMJG	U001	639	637	651	668	669	667	668	665	665	668	664	669	665	668	669	666	667	666	671	669	672	671	671	673	672	675	674	671	671	670	671	677	671	671	671	669	672	674	672	671	666	666	670	668	668	650	647	651	
JMJG	U002	640	638	651	671	665	667	670	668	666	671	663	671	668	667	657	664	667	667	666	669	673	670	674	671	673	677	674	675	671	673	671	678	672	669	673	679	668	669	679	667	679	667	669	678	668	657	645	649	
JMJG	U003	647	634	651	667	669	666	671	664	666	666	664	671	669	668	665	668	668	671	663	668	671	669	674	666	669	671	673	672	672	671	673	670	674	668	672	669	669	674	669	666	673	668	673	671	671	662	644	642	
JMJG	U004	971	969	969	970	908	854	852	855	854	854	854	854	854	854	850	855	852	854	853	900	904	959	948	911	911	912	912	913	913	930	931	941	939	939	939	939	939	939	941	940	939	938	939	939	941	895	834	785	
JMJG	U005	890	889	892	892	847	854	848	850	848	849	850	851	848	853	850	849	851	851	850	852	872	889	890	888	892	891	891	889	889	890	890	892	888	889	887	897	892	894	890	892	889	891	891	890	888	889	888	888	
PKLG	U003	280	279	280	279	279	280	281	277	277	242	190	155	158	157	158	158	158	157	157	156	157	157	157	208	205	207	265	275	277	279	278	280	277	278	278	278	277	278	278	277	276	277	276	277	277	278	278	278	
PKLG	U004	0	0	0	0	0	0	25	45	68	77	92	104	105	128	128	149	179	189	210	247	275	282	280	277	276	278	277	277	276	279	279	278	274	278	276	279	277	279	277	278	279	277	277	276	276	280	281	288	
PKLG	U006	449	446	449	451	451	445	448	450	453	449	449	445	449	449	446	450	448	448	445	445	446	448	451	451	449	450	446	447	449	445	449	450	452	445	449	449	445	453	455	452	449	451	452	443	446	448	449	448	
TBIN	U001	690	690	691	690	690	689	692	689	690	688	689	687	689	690	690	689	689	690	688	687	688	689	685	690	688	689	690	689	690	690	690	691	690	690	686	689	690	689	689	689	690	689	688	689	687	689			
TBIN	U002	691	691	689	691	692	690	687	687	692	691	690	692	690	692	690	692	692	690	692	692	690	692	689	689	693	690	692	692	690	689	689	687	691	691	692	690	690	691	691	693	691	693	691	690	692	691	689	694	
TBIN	U004	982	984	982	983	928	853	852	854	853	854	852	853	852	853	853	853	854	852	853	873	904	908	962	962	962	982	983	982	984	983	982	982	982	982	984	982	984	981	982	984	983	982	982	982	984	983	983		
Total ST-Coal		9996	9847	9665	9657	9433	9224	9250	9262	9277	9271	9029	9021	9015	9049	9029	8953	8968	8821	8698	8826	8956	8998	9264	9336	9436	9493	9486	9536	9547	9547	9568	9584	9581	9568	9572	9592	9582	9591	9590	9578	9576	9569	9575	9568	9567	9494	9391	9361	
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	356	291	218	219	219	224	224	224	217	224	224	223	219	226	218	228	228	229	249	347	349	353	349	347	337	346	348	358	354	345	353	351	351	357	348	348	348	352	338	351	357	351	348	346	353	357	351	354	
GLGR	GT01	110	112	111	110	111	70	69	69	68	71	69	71	71	71	70	70	72	71	70	69	71	68	67	68	66	67	67	68	68	67	67	68	66	68	68	67	68	68	67	67	67	103	100	99	99	101	99	101	
GLGR	GT02	108	107	108	108	108	66	67	66	66	67	66	67	67	66	66	66	66	66	66	66	66	68	68	67	67	67	68	68	67	67	67	68	67	67	67	67	67	67	67	101	100	100	99	100	100	101			
GLGR	ST1C	96	97	97	96	97	78	72	71	71	71	71	71	72	72	72	72	72	72	72	72	72	72	72	72	72	73	73	73	73	73	73	73	72	73	72	72	72	72	72	90	91	91	91	91	91	90			
NPRI	BLK1	493	501	499	498	494	504	398	324	322	330	329	329	329	335	329	330	334	340	434	503	504	504	496	501	483	492	501	513	504	495	504	506	507	509	500	497	522	520	511	525	526	525	526	520	529	527	524	526	
NPRI	BLK2	497	504	503	502	500	467	453	406	446	455	514	529	529	524	453	385	382	538	539	432	445	508	485	504	455	477	503	528	511	482	508	509	511	526	505	485	527	527	514	528	529	532	529	523	533	533	530	528	
PCGP	PGRG	587	596	495	284	262	262	262	261	262	261	260	261	262	266	261	265	267	298	620	600	603	601	591	597	571	587	594	614	601	592	602	600	603	613	599	595	601	607	578	612	604	604	597	588	603	604	598	598	
SPGP	BLK1	719	720	719	721	721	718	608	568	398	405	523	498	474	609	609	358	362	720	716	719	718	720	721	718	720	719	720	719	719	720	722	722	719	719	720	721	718	721	719	720	719	720	721	719	720	719	720	719	
SPGP	BLK2	713	712	715	714	715	715	718	719	680	618	560	508	497	499	499	500	500	720	717	720	720	719	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	276	479
TJGS	GT1A	175	137	135	138	139	135	135	135	136	135	135	137	136	136	136	139	137	139	142	217	223	222	224	221	204	193	180	203	221	219	222	223	221	222	226	227	226	224	210	222	219	224	222	221	221	221	222		
TJGS	GT1B	169	132	126	131	131	129	124	127	129	123	128	127	126	125	132	129	127	129	138	208	213	215	211	213	194	185	170	194	214	212	211	215	211	212	215	217	217	216	196	211	213	212	211	210	212	210	211	211	
TJGS	ST1C	203	169	169	169	166	172	172	172	172	172	172	172	172	172	161	168	172	175	232	238	241	242	242	237	218	204	213	241	241	241	241	241	241	241	241	237	237	237	227	234	234	234	234	234	234	233	236	233	
TJGS	GT2A	166	148	148	148	148	148	148	148	148	149	149	147	149	149	149	148	148	148	149	179	207	185	185	185	166	148	148	216	213	215	210	213	213	210	212														

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	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		
HTRG	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		
KNRG	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		
KNRG	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		
KNRG	HY03	22	23	23	22	22	23	23	23	23	23	23	23	24	24	24	0	0	0	0	0	0	0	0	0	0	
KNYR	HY01	63	58	61	61	66	66	65	64	63	64	65	65	66	63	92	85	99	102	94	99	97	90	99	84	86	
KNYR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	103	99	100	99	97	100	94	100	104	106	106	
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	103	99	99	98	96	100	94	99	103	107	106	
LPIA	HY01	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	15	14	14	14	14	14	14	14	
LPIA	HY02	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	10	10	10	10	10	10	10	10	
MNOR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	3	3	3	3	
PGAU	HY01	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	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	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	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	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	0	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	0	
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	HY02	43	45	44	44	44	45	45	45	45	45	46	45	45	44	81	68	89	92	44	54	45	43	45	38	42	
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	50	49	50	51	50	
TMGR	HY04	58	61	60	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	51	50	51	51	51	
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	89	97	95	97	99	
UPIA	HY01	6	6	6	6	6	5	6	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	4	4	4	4	4	4	4	4	4	4	4	
Total Hydro		263	264	266	204	204	232	211	209	209	209	230	212	211	211	208	275	253	289	505	438	453	441	1128	1069	726	
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	1	2	4	8	13	23	17	9	10	25	18	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	12	13	18	19	16	30	27	21	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	9	19	30	29	30	30	30	29	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	18	32	24	30	33	35	43	34	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8	13	23	34	20	30	34	20	24	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	9	8	17	10	17	21	27	26	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	21	25	50	50	50	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	13	22	20	33	37	28	35	32	36	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	15	16	33	43	41	31	46	47	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	6	7	12	29	30	30	22	30	27	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	26	16	33	25	36	44	36	40	26	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	12	12	21	28	50	40	52	47	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	8	10	21	31	21	42	44	26	29	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	7	20	14	18	16	24	29	19	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	29	70	121	156	264	371	372	408	451	489	
PCUF	CUFG	3	8	11	15	16	15	16	14	13	15	15	15	16	5	3	4	5	4	6	4	5	6	4	4	5	4

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	2	3	3	4	3	2	4	0	2	4	4	2	4	5	3	0	2	5	3	2	1	4	2	2	3	3	4	3	3	4	3	3	5	4	4	3	3	2	3	4	3	3	3	2	4	4	2	6	
Total Co-Gen		5	11	14	19	19	17	20	14	15	19	19	17	20	10	6	4	7	9	9	6	6	10	6	6	7	8	8	8	7	7	8	7	10	9	9	8	8	8	8	9	7	8	6	6	9	8	7	10	
Total Gen		15143	14808	14442	14172	13920	13619	13386	13231	13072	13034	12934	12847	12802	12976	12856	12541	12576	13287	13874	14214	14576	14875	15025	15174	14963	14736	14644	14897	15151	15248	15350	15336	15327	15305	15152	14949	14753	14751	14945	15616	15883	15856	15694	15517	15345	15112	15033	14920	
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	31	31	31	31	30	30	30	30	30	30	31	31	30	30	30	30	31	31	31	31	30	30	30	30	30	30	30	31	31	31	31	31	31	31	30	30	29	29	30	30	30	30	30	29	29	30	30	
TIE-PLTG		40	-1	-20	-22	5	-49	-12	36	33	-38	7	5	-25	-1	17	10	-72	-59	-13	16	0	-19	11	26	24	-42	-54	-112	-44	-50	-73	-51	-107	-47	33	27	15	-28	68	-6	4	12	-9	9	-44	-10	-14	-4	
Interconnection		70	30	11	9	35	-19	18	66	63	-8	37	36	6	29	48	40	-42	-28	17	47	30	11	41	56	54	-12	-23	-82	-14	-19	-42	-20	-76	-16	64	56	44	1	97	24	34	42	21	40	-14	20	16	26	
System Total		15087	14792	14445	14177	13899	13652	13382	13179	13023	13056	12911	12825	12810	12961	12822	12515	12632	13329	13871	14181	14560	14878	14998	15132	14923	14762	14681	14993	15179	15281	15406	15370	15417	15335	15102	14907	14723	14764	14862	15606	15863	15828	15687	15491	15373	15106	15031	14908	
SRev ST-Coal		251	400	232	190	411	470	476	583	566	564	695	675	677	646	663	661	653	777	639	591	562	530	368	348	219	140	149	145	134	134	143	127	130	143	139	119	129	120	121	133	135	142	136	143	144	217	260	406	
SRev CCGT-Gas		524	717	906	1111	1139	1257	1498	1657	1832	1868	1747	1806	1847	1697	1790	2096	2084	1305	882	635	526	348	428	468	535	686	734	611	428	479	419	428	415	307	342	367	386	394	433	302	246	157	174	183	134	153	237	305	
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	9	21	73	74	50	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		1091	1091	1091	1178	1178	1027	1178	1178	1178	1178	1027	1178	1178	1178	1178	1178	1178	976	976	976	976	187	187	676	802	889	889	802	489	489	489	489	489	489	489	615	702	702	702	302	302	151	302	302	489	676	676	802	
Hydro		176	175	173	148	148	271	141	143	143	143	273	140	141	141	144	77	99	63	54	121	106	118	409	492	346	259	178	116	121	359	345	348	322	336	394	335	263	214	762	719	618	827	824	863	723	626	353	385	
S.Reserve Total		2042	2383	2402	2627	2876	3025	3293	3561	3719	3753	3742	3799	3843	3662	3775	4012	4014	3323	2551	2323	2170	1972	1392	1495	1776	1887	1950	1761	1485	1461	1396	1392	1356	1275	1364	1436	1480	1430	2018	1465	1322	1350	1510	1541	1490	1672	1526	1898	