

Daily System Generation Summary on Saturday

Saturday, April 10, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,189 MW
Distillate	0 MW
Total TNB	2,189 MW
Total IPP	16,264 MW
Total Co-Gen	0 MW
Total System	22,432 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,854	4.38 %
Gas	65,816	18.18 %
Total TNB	81,670	22.56 %
ST-Coal	219,844	60.72 %
LSS	3,688	1.02 %
Gas	56,977	15.74 %
Total IPP	280,509	77.47 %
Co-Gen	174	0.05 %
Total Co-Gen	174	0.05 %
Total Generation	362,353	100.08 %
PLTG	-442	-0.12 %
HVDC	724	0.20 %
Interconnection	282	0.08 %
Net Energy	362,071	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	17,932 MW
TNB Generation	4,838 MW
IPP Generation	12,108 MW
Spinning Reserve	980 MW
Maximum Demand	16,947 MW
Net Energy	362,071 MWH
Load Factor	89.02 %

Fuel Cost

Total Cost:	54,062,719.53 RM
Cost per Unit	14.92 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	285
Hydro	345
Syncon	515
Thermal	236
Total	1,381

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	53
SRDG	5
TJGS	172
Total TNB	230
CBPS	49
NPRI	157
PLPS	64
Total IPP	270
Total Gas	500
Total Gas Required	500

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	15726	15052	14474	13962	13511	13326	13215	13123	12930	13964	14803	15324	15347	15237	15849	16054	16169	16010	15531	15641	16947	16670	16422	16261

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, May 7, 2021 1:46:35 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	501	502	606	679	686	615	601	551	550	551	513	451	451	398	401	401	506	610	693	690	692	693	689	695	689	691	692	692	693	693	691	693	693	694	692	690	693	692	694	695	692	693	693	691	692			
JMAH	U002	504	505	608	689	693	631	603	555	553	550	506	452	455	453	401	406	404	509	608	693	699	698	696	692	696	694	693	697	693	697	693	694	696	695	688	695	696	695	696	695	695	691	690	696	696	691	697	
JMHE	U001	978	979	981	979	900	896	898	900	896	849	850	850	845	848	852	851	850	849	844	853	850	948	979	969	980	978	977	982	980	979	978	977	980	983	982	981	978	979	971	975	975	977	978	976	980	974	975	976
JMHE	U002	977	978	981	979	901	897	898	900	898	849	850	853	851	850	850	848	849	850	845	854	849	980	980	972	981	979	976	981	981	979	976	980	980	982	979	982	977	982	977	980	976	980	978	979	982	977	977	981
JMJG	U001	671	666	666	675	666	667	671	674	673	672	669	674	670	685	667	670	668	673	671	671	672	677	671	670	671	670	671	669	672	679	665	671	671	669	671	678	667	674	666	672	670	675	673	671	677	673	676	666
JMJG	U002	671	653	596	526	487	442	400	397	404	398	396	367	309	266	255	0	0	0	0	0	0	0	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	U003	673	666	676	673	672	670	670	672	671	672	675	663	670	671	666	674	668	671	671	670	672	671	671	672	669	672	672	678	670	671	672	673	674	668	672	671	667	668	672	671	672	671	663					
JMJG	U004	894	895	892	896	895	894	892	892	895	852	854	853	853	854	852	855	853	853	853	852	852	854	882	900	901	900	902	898	900	900	901	900	901	900	897	898	895	896	895	892	891	891	889	891	892	894	892	892
JMJG	U005	896	892	891	894	892	894	890	892	894	848	850	852	853	854	851	851	853	849	853	854	850	889	892	891	891	892	894	892	891	888	894	890	892	887	884	895	888	895	891	895	892	892	891	892	887	886	886	887
PKLG	U003	152	153	155	154	154	154	155	153	152	153	153	153	153	153	154	155	154	155	154	155	155	153	234	258	274	276	275	273	278	277	272	275	276	276	275	276	275	272	275	275	274	275	274	274	271	272	272	275
PKLG	U004	152	154	154	152	155	152	153	157	155	155	155	154	155	155	155	155	154	154	153	153	154	153	154	152	223	256	273	279	273	274	276	276	272	276	276	276	276	276	277	281	284	281	275	276	267	276	275	276
PKLG	U006	270	272	271	270	270	270	273	268	266	267	267	268	269	270	269	267	272	272	268	267	271	268	267	272	330	395	413	446	450	446	446	449	445	450	450	448	445	450	449	446	445	449	449	448	446	449	448	448
TBIN	U001	689	692	689	692	690	690	690	691	690	690	690	691	690	692	600	601	686	689	688	689	688	691	686	689	690	689	689	689	690	689	692	689	690	688	689	691	692	688	688	690	690	689	690	689	692	688	687	
TBIN	U002	693	693	691	472	354	353	354	353	352	355	352	353	353	352	353	352	351	352	355	351	350	350	355	348	352	354	351	352	353	353	352	352	349	351	352	354	351	354	353	353	352	352	354	352	353	349		
TBIN	U004	983	983	982	981	929	902	903	904	902	854	853	854	853	853	854	853	854	853	853	854	905	983	983	984	984	984	985	982	984	983	984	982	983	981	982	981	983	983	983	982	983	982	985	983	983	984		
Total ST-Coal		9704	9683	9839	9711	9344	9127	9051	8958	8952	8715	8633	8487	8431	8405	8268	7938	7932	8232	8427	8606	8609	8956	9087	9050	9295	9413	9456	9518	9501	9507	9494	9509	9495	9497	9490	9515	9486	9509	9482	9492	9491	9494	9486	9494	9490	9487	9478	9473
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		
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		
CBPS	BLK2	215	221	218	223	214	217	217	222	219	224	226	219	224	303	302	302	361	359	364	320	244	340	358	352	354	346	352	358	361	362	359	359	366	369	364	364	364	361	364	358	360	356	360	362	360	360	360	
EMPP	BLK1	761	699	243	675	758	760	757	757	0	0	0	0	0	0	0	0	0	0	743	746	750	747	0	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	GT01	99	99	67	68	67	67	68	69	68	69	69	67	68	67	68	69	68	69	85	104	104	104	105	102	104	103	104	105	104	105	104	105	105	104	106	104	67	69	71	106	104	103	105	104	96	67	67	
GLGR	GT02	100	98	67	68	67	68	68	67	68	68	68	68	68	68	68	68	84	104	104	104	104	104	104	103	103	102	102	102	102	102	103	102	103	102	103	67	68	72	104	103	103	104	104	95	67	68	67	
GLGR	ST1C	91	90	72	72	72	72	72	72	71	72	71	72	72	71	72	72	83	93	93	94	94	94	94	94	94	94	94	94	94	94	94	95	94	94	94	76	72	72	93	94	94	94	94	92	73	72	74	
NPRI	BLK1	494	498	499	505	493	363	308	321	391	398	399	504	505	499	502	506	508	506	509	506	509	482	506	485	496	497	506	518	516	518	512	510	518	522	517	512	515	516	523	516	512	517	515	515	517	515	514	512
NPRI	BLK2	497	501	500	507	497	491	494	508	500	507	508	508	509	500	506	508	509	508	513	508	512	484	510	486	499	499	508	521	516	517	512	512	520	524	519	514	517	518	526	518	515	518	517	518	518	517	516	514
PCGP	PGRG	587	402	493	262	402	403	402	263	403	400	562	600	603	592	600	604	607	601	608	402	609	567	602	590	602	603	601	604	602	604	602	593	606	600	602	594	603	603	600	599	599	603	601	600	601	601	596	
PLPS	GT11	145	144	145	145	145	146	146	146	145	146	123	124	124	124	124	123	145	144	143	135	141	135	133	131	136	139	139	139	138	140	139	139	139	137	140	140	141	140	140	140	128	124	124	116				
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	75	142	144	145	144	132	128	128	119				
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	63	131	135	136	135	134	135	135	139	136	131	135	135	138	134	136	135	136	136	124	121	121	111		
PLPS	ST18	59	59	59	59	58	59	59	59	60	59	59	54	57	57	57	57	59	61	60	59	59	60	61	81	103	143	144	143	143	142	143	143	141	143	142	142	145	172	213	213	213	213	209	203	204	198		
SPGP	BLK1	718	717	718	649	719	720	719	649	720	719	719	718	719	719	720	718	720	719	718	718	719	718	718	719	717	715	717	716	714	715	715	714	716	719	719	718	720	719	718	718	718	719	719	718	718	718		
SPGP	BLK2	717	716	717	648	719	720	720	648	717	717	719	717	718	718	719	718	719	717	717	716																												

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	HY03	9	9	9	9	9	9	9	9	9	9	10	10	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	125	-1	0	0	0	0	0	0	0	0	0	0
HTRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	124	63	63	63	63	63	63	63	63	63	63	63
KNRG	HY01	36	36	36	36	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36	36	36	36	36
KNRG	HY02	37	37	37	37	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	37	37	37	37	37
KNRG	HY03	36	36	36	36	37	37	25	25	25	25	25	25	26	26	25	26	38	38	36	36	36	36	36	36
KNYR	HY01	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	96	55	55	60	101	101	100
KNYR	HY02	57	56	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	99	99	99
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	99	99	99
KNYR	HY04	57	58	60	84	60	57	58	93	58	100	100	77	100	60	59	95	100	99	103	99	105	53	83	58
LPIA	HY01	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	18	18	20	20
LPIA	HY02	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MNOR	HY01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	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
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19	19	19	19
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	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	0	0	0	0
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	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
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
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
TMGR	HY01	29	31	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	43	44	66	45	43	43	73	44	74	75	50	74	44	45	83	89	76	91	79	91	38	58	40
TMGR	HY03	83	84	32	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	84	-1	-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
UPIA	HY01	5	5	5	5	5	5	5	4	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		653	515	379	400	232	228	204	270	207	279	279	252	279	209	209	304	295	381	405	308	412	371	376	1337
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
BDSL	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
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
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
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
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
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
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
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
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
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
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
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
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

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		
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	6	9	8	17	21	22	10	16	16	15	13	19	17	23	21	17	15	12	8	5	2	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	10	47	116	194	279	357	391	419	483	502	482	510	514	498	490	438	400	337	311	231	203	119	42	11	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	3	5	4	5	4	5	4	4	4	4	5	5	4	4	4	4	4	6	4	4	4	5	4	3	5	4	3	4	4	3	4	3	4	3	4	3	2	5	3	3	3	4	4	2	3	1	4		
PCUF	CUFK	4	4	4	3	3	2	3	3	4	5	3	4	3	3	4	3	3	6	3	5	3	3	2	4	3	4	5	4	4	3	4	2	3	4	4	3	4	2	3	2	3	3	5	3	5	2	3	3	
Total Co-Gen		7	9	8	8	7	7	7	7	8	9	8	9	7	7	8	7	7	12	7	9	7	8	7	5	9	8	8	8	7	8	5	7	7	7	8	7	7	4	8	5	6	6	9	7	7	5	4	7	
Total Gen		15767	15374	15044	14762	14521	14168	14021	13748	13545	13403	13316	13229	13210	13246	13126	12829	12902	13574	13940	14408	14804	15277	15358	15605	15389	15191	15232	15468	15843	16125	16059	16168	16192	16271	16034	15835	15547	15469	15646	16590	16952	16877	16698	16695	16426	16362	16224	16047	
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		
TIE-HVDC		30	31	31	30	30	30	30	31	31	31	31	30	30	30	30	31	31	30	30	30	30	30	30	31	31	31	31	29	29	29	29	30	30	30	30	31	31	30	30	30	30	31	31	30	30	30	30	31	
TIE-PLTG		15	-13	-35	-26	20	-9	32	-56	7	-37	-38	-28	-31	12	-24	-23	-56	-47	-51	-59	-25	12	7	53	14	-35	-33	-33	-33	-1	-22	-22	-4	-4	-4	-4	-12	-22	-22	-22	-22	-22	0	-23	-23	-64	-64	-12	
Interconnection		45	18	-4	4	50	21	62	-25	37	-6	-7	1	-2	42	6	7	-25	-17	-21	-29	4	42	37	84	45	-5	-2	-3	-3	28	8	8	26	27	27	27	27	19	8	8	8	8	9	31	7	7	-34	-34	19
System Total		15726	15360	15052	14762	14474	14150	13962	13776	13511	13412	13326	13231	13215	13207	13123	12825	12930	13594	13964	14440	14803	15238	15324	15524	15347	15199	15237	15474	15849	16100	16054	16163	16169	16247	16010	15811	15531	15464	15641	16585	16947	16871	16670	16691	16422	16399	16261	16031	
S.Rev ST-Coal		376	405	365	285	515	638	650	597	588	683	684	719	771	699	685	737	746	685	681	558	553	352	220	258	222	223	185	123	130	124	137	122	136	134	141	116	145	122	149	139	140	137	145	137	141	144	153	158	
S.Rev 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	82	7	74	74	37	0	0	0	0		
S.Rev CCGT-Gas		783	960	850	1456	891	1025	1069	1315	693	671	675	590	578	446	430	501	450	238	164	607	399	270	352	341	321	373	482	398	138	183	404	305	114	103	120	138	376	378	205	237	128	125	120	116	175	306	271	369	
S.Rev 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	
S.Rev 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	
S.Rev 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		716	803	904	904	904	904	904	904	904	904	904	753	904	904	904	753	904	803	803	904	904	904	904	87	702	778	778	778	591	302	302	489	489	489	489	590	590	590	591	151	151	0	151	151	151	302	302	313	
Hydro		263	214	163	142	97	101	125	59	122	50	50	228	50	120	120	176	34	49	25	21	4	125	119	200	318	274	271	185	223	420	473	383	473	383	429	508	445	464	491	557	555	721	749	673	690	316	477	428	
S.Reserve Total		2138	2382	2282	2787	2407	2668	2748	2875	2307	2308	2313	2290	2303	2169	2139	2167	2134	1775	1673	2090	1860	1651	1595	886	1563	1648	1716	1484	1082	1029	1316	1299	1212	1109	1179	1352	1556	1554	1436	1166	981	1057	1239	1114	1157	1068	1203	1268	