

Daily System Generation Summary on Saturday

Saturday, July 10, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,185 MW
Distillate	0 MW
Total TNB	2,185 MW
Total IPP	17,938 MW
Total Co-Gen	0 MW
Total System	23,772 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,812	4.75 %
Gas	66,446	22.87 %
Total TNB	80,258	27.62 %
ST-Coal	170,053	58.53 %
LSS	2,839	0.98 %
Gas	37,698	12.98 %
Total IPP	210,590	72.48 %
Co-Gen	156	0.05 %
Total Co-Gen	156	0.05 %
Total Generation	291,004	100.16 %
PLTG	-256	-0.09 %
HVDC	726	0.25 %
Interconnection	470	0.16 %
Net Energy	290,534	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	14,894 MW
TNB Generation	3,863 MW
IPP Generation	9,783 MW
Spinning Reserve	1,241 MW
Maximum Demand	13,671 MW
Net Energy	290,534 MWH
Load Factor	88.55 %

Fuel Cost

Total Cost:	43,510,256.70 RM
Cost per Unit	14.95 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	330
Hydro	167
Syncon	735
Thermal	671
Total	1,903

Time	Weather	Temperature
Afternoon	Rainy	31
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
TJGS	218
Total TNB	218
CBPS	55
NPRI	78
PLPS	35
Total IPP	168
Total Gas	386
Total Gas Required	386

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	13052	12483	12052	11601	11283	11026	11070	10906	10631	11177	11576	11787	11917	12093	12383	12539	12403	12319	12144	12463	13671	13504	13288	13101

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, August 5, 2021 10:45:47 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

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	U002	435	435	432	417	405	348	355	354	354	343	248	212	215	215	213	215	213	214	259	369	452	454	512	556	596	604	697	693	694	695	697	697	693	694	696	698	696	694	694	697	698	697	695	696	697	691	590		
JMHE	U001	851	779	776	780	785	779	782	777	778	780	780	777	777	782	780	782	783	777	781	779	779	777	781	774	780	779	780	780	776	781	775	780	780	781	777	779	783	778	776	850	851	849	849	851	850	852	848	852	
JMHE	U002	850	785	776	781	781	781	783	780	780	779	780	779	779	783	781	779	783	779	782	780	779	777	782	775	782	779	778	782	779	782	775	781	780	782	776	783	781	776	776	850	850	849	849	848	848	852	847	851	
JMJG	U001	662	668	671	667	672	667	611	590	545	547	523	508	510	506	511	508	508	522	574	661	673	668	667	675	671	668	680	666	682	669	683	670	671	675	675	667	671	673	673	670	669	668	669	671	670	666	668	667	
JMJG	U002	634	683	676	673	671	670	634	590	542	550	525	509	508	510	508	500	500	515	587	668	672	675	675	668	574	576	567	590	601	682	682	670	682	673	675	677	673	673	673	675	661	677	678	672	672	673	673	672	
JMJG	U003	648	586	501	425	341	329	327	324	327	330	335	271	189	0	0	0	0	0	0	0	0	0	0	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	U004	856	815	789	789	787	787	787	787	787	786	789	789	787	790	789	791	788	787	785	787	786	789	786	787	788	786	789	786	788	788	789	787	789	788	789	787	787	787	785	825	852	854	856	853	854	856	857	854	
JMJG	U005	851	796	800	800	800	801	798	799	800	797	799	801	801	801	798	798	800	801	800	800	800	800	800	801	799	800	799	801	800	801	799	801	798	800	800	801	797	797	800	853	852	848	854	854	849	850	849	855	
PKLG	U006	405	404	404	405	405	379	305	267	269	270	270	267	272	267	269	269	265	272	267	305	398	429	447	450	450	450	448	449	446	449	448	450	444	449	447	446	449	449	447	448	448	446	449	446	446	449	446		
TBIN	U001	400	401	401	374	351	350	350	351	263	211	212	213	212	213	212	213	212	213	212	212	212	210	263	293	301	362	390	457	447	501	484	401	400	401	401	401	423	606	689	689	690	691	635	599	553	500			
TBIN	U002	405	404	404	384	354	353	353	354	268	211	214	214	214	214	214	213	213	216	212	269	263	264	302	303	303	312	374	459	453	501	501	454	454	455	455	454	454	554	570	683	689	692	696	637	604	552	502		
TBIN	U004	853	853	853	852	850	854	853	853	855	853	854	855	852	853	853	853	853	854	851	852	853	856	851	855	853	854	854	854	854	853	855	851	852	853	853	852	852	853	853	854	854	852	852	857	854	854	852		
Total ST-Coal		7850	7609	7483	7347	7202	7098	6938	6824	6654	6514	6326	6195	6116	5934	5928	5921	5921	5945	6069	6315	6648	6747	6770	6892	6855	6892	6982	7169	7335	7400	7501	7476	7352	7346	7340	7348	7346	7336	7354	7894	8106	8126	8135	8130	8014	7949	7841	7640	
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
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	350	357	354	354	362	354	359	351	362	362	365	358	369	354	354	362	362	363	363	360	360	362	362	355	362	362	362	362	362	359	355	363	363	362	362	359	362	362	362	362	362	357	355	353	362	355	351		
NPRI	BLK1	507	384	184	161	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
NPRI	BLK2	500	503	502	502	511	496	509	494	511	512	514	508	511	523	508	499	510	512	511	505	506	511	512	503	506	509	515	509	502	512	505	510	511	514	510	512	514	510	511	512	509	506	514	503	502	512	500	508	
PCGP	PGRG	584	590	587	589	603	581	595	578	600	602	602	595	601	614	595	590	603	596	601	594	281	280	281	283	281	281	283	281	281	280	280	283	281	281	284	504	600	596	602	600	591	599	587	587	602	589	590		
PLPS	GT11	130	129	129	129	129	130	129	130	130	129	130	130	129	130	130	130	130	129	129	130	130	129	130	130	130	130	129	129	130	130	130	130	130	130	129	129	130	130	129	147	148	148	130	130	130	130	130		
PLPS	ST18	57	58	58	58	58	58	58	58	57	58	58	58	59	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	57	59	59	60	60	57	58	58	58	58			
SPGP	BLK1	718	718	720	718	717	720	719	719	718	719	719	719	719	719	719	719	717	717	717	720	718	720	719	719	721	720	719	720	721	720	719	721	718	718	720	719	720	718	719	720	718	719	718	721	720	720	719	719	
SPGP	BLK2	720	720	720	719	718	721	720	721	720	720	719	719	719	719	719	719	719	717	717	720	719	720	718	720	720	721	720	719	720	719	719	719	721	718	718	719	720	719	719	719	719	719	718	721	719	719	719	719	
TJGS	GT1A	187	223	220	224	227	217	200	187	200	196	196	194	198	228	221	226	196	225	223	229	227	227	229	227	223	227	225	226	226	223	228	223	223	223	226	222	216	229	225	224	220	223	225	217	222	220	221	222	
TJGS	GT1B	179	214	210	216	217	210	191	180	190	193	187	185	192	220	215	215	187	217	219	219	219	215	217	216	212	214	216	217	216	217	214	213	216	215	217	206	210	215	213	216	212	212	214	211	213	211	216		
TJGS	ST1C	238	243	243	238	242	238	219	211	215	215	215	215	215	240	240	240	217	242	242	242	242	242	242	242	242	242	242	245	245	245	245	245	245	245	245	242	229	243	242	242	242	238	239	242	242	236			
TJGS	GT2A	216	185	222	216	216	216	184	187	187	186	187	217	217	217	215	217	186	221	217	215	217	215	199	217	212	221	220	220	217	220	218	218	218	221	217	147	158	222	215	216	216	216	216	216	216	216	216	216	
TJGS	GT2B	212	182	218	212	212	212	181	181	184	183	183	213	214	211	213	213	182	210	213	213	212	198	214	209	216	213	215	215	215	215	218	217	217	213	211	144	156	219	213	212	212	212	212	212	213	213	213		
TJGS	ST2C	255	235	244	255	255	255	236	233	233	233	233	254	254	254	254	235	252	250	252	252	252	252	255	255	257	257	257	256	256	256	256	256	256	256	256	256	226	204	241	253	253	253	253	253	253	253	253		
Total CCGT-Gas		4853	4741	4611	4591	4475	4408	4300	4230	4307	4308	4305	4372	4389	4500	4445	4434	4300	4463	4468	4459	4144	4139	4119	4146	4125	4157	4160	4160	4149	4160	4144	4151	4154	4160	4152	4152	4185	4283	4459	4464	4475	4463	4474	4424	4422	4461	4426	4430	
Total 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		
BSIA	HY02	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	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	47	47	47	47
SIHY	HY02	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	34	50	50	50	50
SIHY	HY03	30	30	30	0	0	0	0	0	0	0	0	0	0	30	49	50	49	49	49	50	50	50	50	49	50
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	25	25	25	25	25	25
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	25	25	25	25	25	25
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	17	17	21	25	25
TMGR	HY01	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
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	-1
TMGR	HY04	39	40	39	39	47	38	41	38	42	41	42	51	71	84	41	40	74	41	47	40	41	44	51	42	40
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	-1	-1	-1	-1	-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	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	5
Total Hydro		380	474	468	315	368	320	343	420	328	410	416	447	557	632	606	317	363	485	518	509	528	539	487	516	495
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	2	5	8	9	15	18	19	14	25	28	17	26
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	1	2	4	10	9	16	18	21	19	11
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	8	15	22	24	28	32	28	10	15	5
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	3	5	8	11	26	35	34	22	32	48
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	9	12	20	27	44	31	39	43	33	19
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	7	13	11	17	12	20	20	17	26	22
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	7	15	30	31	29	7	21	15	15
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	8	11	14	26	24	36	40	35	40
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	10	8	18	29	24	34	37	33	34	16
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	6	13	23	25	28	30	30	30	16	14
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	23	17	29	28	39	40	47	47	36
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	9	11	17	17	41	52	47	42	39	31
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	5	7	15	22	30	31	36	39	40	40
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	14	15	14	21	24	26	17	24	29
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	8	8	8	20	20	30	24	30	28
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	8	44	79	127	181	264	300	406	424	465	423	409
PCUF	CUFG	3	3	2	4	3	4	2	4	3	4	4	2	2	4	3	3	3	4	4	2	3	4	4	4	4
PCUF	CUFK	2	3	4	4	3	3	3	3	3	3	3	3	4	4	3	3	2	3	4	4	5	4	3	4	2
Total Co-Gen		5	6	6	8	6	7	5	7	6	7	7	5	7	9	6	7	9	5	4	8	7	6	6	7	8
Total Gen		13088	12830	12568	12261	12051	11833	11586	11481	11295	11239	11054	11019	11069	11075	10985	10687	10637	10977	11186	11472	11591	11731	11788	11984	11946
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
TIE-HVDC		30	30	30	30	30	30	30	30	31	31	31	31	30	29	29	31	31	31	31	31	30	31	31	30	30
TIE-PLTG		9	37	59	8	-27	1	-41	20	-13	6	1	13	-28	-42	53	21	-21	7	-17	22	-10	20	-25	27	2
Interconnection		40	67	89	38	3	30	-11	50	16	36	32	43	3	-11	83	52	10	37	13	51	19	50	5	58	33
System Total		13052	12767	12483	12227	12052	11807	11601	11435	11283	11207	11026	10980	11070	11090	10906	10639	10631	10944	11177	11425	11576	11685	11787	11930	11917
SRev ST-Coal		813	836	843	849	848	854	938	951	952	951	951	951	883	883	883	879	884	883	796	776	753	736	733	740	741
SRev CCGT-Gas		262	374	248	188	204	171	279	349	272	271	274	222	205	94	149	160	294	131	126	135	450	455	475	448	469
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
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
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
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

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	
Syncon		738	738	738	738	738	769	769	618	825	825	825	825	638	651	464	652	839	738	825	825	825	825	825	825	674	825	825	825	825	825	825	825	825	825	825	825	825	825	638	464	464	464	551	551	551	551	551	
Hydro		282	188	194	247	194	241	218	292	233	151	145	114	191	103	316	317	184	205	135	144	125	114	166	137	309	140	112	107	131	77	107	138	75	50	92	84	199	164	149	172	160	245	325	297	298	241	287	260
S.Reserve Total		2095	2136	2023	2022	1984	2035	2204	2210	2282	2198	2195	2112	1985	1731	1812	2012	2196	1958	1969	1900	2176	2147	2202	2143	2192	2143	2096	2013	2026	1981	2014	2059	1981	1959	2010	2002	2082	1949	1764	1541	1245	1321	1380	1495	1617	1533	1617	1647