

Daily System Generation Summary on Sunday

Sunday, July 18, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,227 MW
Distillate	0 MW
Total TNB	2,227 MW
Total IPP	17,789 MW
Total Co-Gen	0 MW
Total System	23,870 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,574	4.70 %
Gas	67,594	21.79 %
Total TNB	82,168	26.48 %
ST-Coal	175,568	56.59 %
LSS	3,397	1.09 %
Gas	48,854	15.75 %
Total IPP	227,819	73.43 %
Co-Gen	165	0.05 %
Total Co-Gen	165	0.05 %
Total Generation	310,152	99.97 %
PLTG	592	0.19 %
HVDC	-697	-0.22 %
Interconnection	-105	-0.03 %
Net Energy	310,257	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:	21:00:00 Hour
Total Set On Bus	16,003 MW
TNB Generation	4,248 MW
IPP Generation	10,592 MW
Spinning Reserve	1,155 MW
Maximum Demand	14,849 MW
Net Energy	310,257 MWH
Load Factor	87.06 %

Fuel Cost

Total Cost:	47,881,437.80 RM
Cost per Unit	15.43 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	109
Hydro	265
Syncon	588
Thermal	485
Total	1,447

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	27

Gas Usage

Station	(mmcsfd)
TJGS	221
Total TNB	221
NPRI	153
PLPS	59
SKSP	10
Total IPP	221
Total Gas	442
Total Gas Required	442

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	14565	13820	13244	12919	12352	12008	11844	11597	11014	11430	11785	12018	12150	12336	12804	13025	13116	13187	12950	13127	14668	14849	14796	14698

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, August 5, 2021 10:52:40 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

Daily MW Generation on Sunday

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	696	695	697	695	608	606	606	530	471	351	355	353	355	217	214	215	214	309	408	403	511	558	577	607	693	696	697	694	695	692	697	698	656	652	654	697	695	694	694	698	696	697	696	694	696				
JMHE	U001	985	919	915	850	850	778	781	780	781	782	778	781	780	780	778	780	775	781	781	779	780	781	780	780	781	780	778	800	816	822	823	820	821	821	822	820	820	820	940	937	939	939	941	984	980	976	979		
JMHE	U002	985	921	918	850	850	777	783	781	782	779	777	780	781	777	780	777	780	779	781	780	779	779	778	780	778	781	780	775	806	818	820	822	820	821	821	819	821	820	820	941	936	941	940	942	980	980	977	979	
JMJG	U001	672	671	673	673	671	668	672	668	672	668	678	677	679	631	593	534	497	532	601	676	671	672	674	669	672	670	674	671	672	672	671	677	673	670	672	672	669	674	672	674	671	669	677	667	671	671	677		
JMJG	U002	688	684	684	681	677	679	680	681	682	686	682	679	678	632	598	570	506	544	603	670	676	669	670	674	679	673	672	674	676	673	666	670	668	672	672	679	667	678	672	673	674	673	668	673	676	668	672	671	
JMJG	U004	498	611	631	669	694	604	636	690	693	710	705	703	729	725	733	715	711	711	700	691	695	691	690	691	701	700	703	712	708	713	714	720	723	717	721	724	715	719	714	714	717	719	723	719	722	718	714	717	
JMJG	U005	889	895	890	842	848	804	803	797	801	799	799	803	799	799	797	800	799	799	800	800	804	796	799	799	796	801	799	801	799	798	797	804	800	800	801	801	798	801	790	868	857	892	892	888	771	848	868	886	
PKLG	U006	448	449	446	449	450	449	447	449	449	450	449	449	448	449	447	449	446	449	446	449	446	449	450	449	451	450	446	446	449	445	449	447	449	448	448	450	448	448	450	449	449	449	448	448	452	451	449		
TBIN	U001	686	687	686	601	601	601	575	499	401	348	351	352	352	351	351	351	241	211	212	212	212	213	212	212	213	212	241	344	402	460	550	625	689	690	689	687	651	577	551	636	689	690	689	687	689	691	690	689	689
TBIN	U003	693	693	690	678	606	607	589	504	446	385	357	354	355	354	353	354	253	214	214	214	213	215	213	214	216	212	215	233	306	306	303	303	346	410	405	403	405	419	501	696	692	693	699	696	690	690	689	694	
TBIN	U004	981	933	923	852	852	853	852	854	852	851	854	851	853	853	854	855	852	853	854	853	853	853	853	853	852	852	855	854	853	853	853	853	854	854	851	855	854	939	939	944	946	942	983	983	982	982			
Total ST-Coal		8221	8158	8153	7840	7707	7426	7424	7233	7030	6812	6783	6782	6812	6704	6638	6534	6087	6083	6205	6340	6438	6524	6522	6633	6696	6710	6770	6979	7166	7253	7341	7433	7537	7602	7598	7531	7428	7434	7626	8277	8259	8304	8310	8311	8309	8376	8383	8419	
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	
NPRI	BLK1	526	523	514	530	529	527	531	530	530	530	526	515	526	530	517	519	530	529	530	531	526	522	530	529	520	527	525	524	522	524	523	523	521	522	522	521	525	524	525	524	526	527	526	526	520	525	527		
NPRI	BLK2	526	525	516	527	530	527	532	529	532	533	526	519	528	532	518	522	518	517	518	511	513	514	518	520	511	517	518	512	519	516	517	516	517	516	517	516	508	520	518	519	520	518	519	517	514	515	511	513	513
PCGP	PGRG	608	605	592	613	612	607	619	619	621	619	605	594	606	617	597	598	622	610	621	622	608	603	625	624	602	614	616	607	626	613	617	631	629	636	625	601	628	636	620	625	618	621	623	615	609	602	609	609	
PLPS	GT11	135	142	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	76	138	138	139	137	138	138	139	134	139	115		
PLPS	GT12	136	140	114	120	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	137	141	143	143	143	143	143	143	144	139	143	119			
PLPS	GT13	139	143	108	109	108	123	124	124	125	125	125	124	125	125	125	126	124	125	125	125	124	125	125	125	124	125	124	124	124	124	125	124	125	125	124	119	125	127	127	127	127	126	126	126	122	126	111		
PLPS	ST18	207	211	194	133	133	58	58	58	57	58	58	57	58	58	58	58	58	58	58	56	58	58	58	58	59	57	58	57	59	58	58	58	58	58	135	141	177	209	211	211	210	209	210	210	207	209	199		
SKSP	BLK1	339	338	325	295	280	289	308	218	147	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SPGP	BLK1	726	725	726	727	725	725	726	725	724	724	726	725	728	725	726	725	725	725	726	725	726	725	725	722	724	722	720	717	720	721	719	718	718	719	719	720	721	721	720	723	723	725	725	725	724	726	725	726	
SPGP	BLK2	726	724	726	726	724	725	727	724	725	724	726	725	726	724	726	725	725	724	727	725	726	725	726	724	725	725	725	726	726	727	725	725	725	723	725	726	725	723	724	724	724	725	724	725	725	726	725	726	
TJGS	GT1A	227	233	225	233	231	234	234	231	232	234	231	224	234	234	225	153	202	223	229	224	224	225	224	223	226	223	222	224	227	221	222	225	222	223	226	225	225	223	232	222	220	226	222	222	226	227	223	225	
TJGS	GT1B	218	225	210	223	222	222	226	222	224	220	225	214	224	224	218	141	190	221	218	218	217	218	213	213	214	218	214	216	217	217	215	213	216	220	214	216	214	216	215	216	214	215	214	216	215	214	217		
TJGS	ST1C	252	253	253	253	253	249	252	252	252	244	252	252	252	200	214	241	241	241	241	241	241	241	241	241	245	245	245	248	248	248	248	245	245	245	245	245	245	245	245	245	246	246	246	246	246	246	246	242	
TJGS	GT2A	224	224	224	224	224	224	224	224	224	224	224	226	222	224	227	186	217	216	215	215	215	216	216	216	216	216	216	217	217	215	215	215	214	216	217	217	202	216	216	216	216	216	216	216	216	216	216	216	
TJGS	GT2B	221	222	222	222	222	222	222	222	222	222	222	222	222	220	222	144	183	214	214	211	214	213	212	212	212	212	211	213	211	211	211	211	211	211	212	212	212	199	213	213	213	213	213	213	213	213	212	212	
TJGS	ST2C	261	261	261	261	261	261	261	259	259	259	259	259	259	259	209	232	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	253	253	253	253	253	253	253	253	253	
Total CCGT-Gas		5471	5494	5321	5196	5174	4997	5039	4939	4875	4826	4705	4650	4709	4728	4668	4267	4509	4658	4677	4658	4646	4638	4667	4661	4632																								

Daily MW Generation on Sunday

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						
KNYR	HY04	98	97	57	100	59	100	-1	-1	-1	100	100	96	-1	-1	-1	-1	-1	-1	-1	-1	99	100	100	100	98	98	99	98		
LPIA	HY01	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
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	3	3	3	3		
PGAU	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	-1	-1	18		
PGAU	HY03	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	22	20	20	20	20	20		
PGAU	HY04	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	20	20	20	20	20		
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	47	47	47	31	31	0	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	50	50	50	31	31	0	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	50	50	50	31	31	0	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	0		
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16	16	16	0		
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	25	16	16	16	16	0		
TMGR	HY01	21	0	0	0	0	62	33	34	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	33	33	34	85	34	-1	-1	81	
TMGR	HY03	47	32	-1	-1	-1	8	0	0	0	0	0	0	32	29	30	32	32	0	0	0	0	0	17	32	31	32	32	0	82	
TMGR	HY04	43	43	38	53	42	41	69	54	75	48	41	38	41	43	38	41	58	60	57	43	41	40	83	52	41	70	42	43	43	
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	-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	-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	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	5	5	5		
Total Hydro		821	657	406	518	379	700	400	370	381	512	512	494	325	367	352	319	323	406	373	358	351	350	352	387	372	484	456	535	494	622
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	
BDLS	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	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	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	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	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	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	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	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	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	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	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	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	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	0	0	0	0	0	
STLS	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	0	0	0	0	0	
TBLS	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	0	0	0	0	0	
Total 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	
PCUF	CUFG	5	3	3	2	3	4	4	4	4	3	3	3	3	3	4	3	4	4	4	3	3	3	3	3	3	3	3	3	4	
PCUF	CUFK	5	2	3	3	4	4	4	3	3	2	3	3	5	3	3	3	3	1	4	4	2	4	3	4	2	3	3	4	4	
Total Co-Gen		10	5	6	5	7	8	8	7	7	5	6	6	8	6	7	6	9	4	5	8	6	6	9	7	7	6	7	5	8	
Total Gen		14523	14314	13886	13559	13267	13131	12871	12549	12293	12155	12006	11932	11854	11805	11665	11135	10970	11240	11414	11573	11738	11866	11941	12084	12140	12277	12305	12594	12807	
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	
TIE-HVDC		-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-30	-30	-28	-28	
TIE-PLTG		-7	59	102	9	59	18	-12	16	-23	-5	34	40	46	42	105	43	-8	69	20	-26	-10	24	-41	0	26	-4	6	67	39	
Interconnection		-35	31	73	-20	30	-11	-41	-13	-52	-35	5	11	17	13	75	14	-37	40	-9	-55	-40	-6	-70	-29	-3	-33	-24	37	10	
System Total		14565	14290	13820	13586	13244	13149	12919	12569	12352	12197	12008	11928	11844	11799	11597	11128	11014	11207	11430	11635	11785	11879	12018	12120	12150	12317	12336	12564	12804	

Daily MW Generation on Sunday

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																								
SRev ST-Coal		144	357	422	558	646	640	738	684	778	618	622	624	623	722	735	754	755	737	638	632	641	642	641	621	630	629	586	583	584	589	575	515	518	517	582	628	614	573	268	286	241	235	234	176	169	162	126	
SRev CCGT-Gas		52	54	227	209	157	191	149	249	313	362	133	188	129	110	170	498	256	107	88	107	119	127	98	104	133	109	117	126	97	113	119	107	110	110	209	142	80	197	145	97	105	97	102	112	109	142	120	188
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		
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		
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		
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		
Syncon		525	651	738	738	738	525	752	752	839	738	738	738	839	839	839	688	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	
Hydro		658	460	245	133	272	250	237	267	169	139	151	169	237	227	239	392	237	154	101	116	123	124	122	188	203	91	119	126	167	126	201	262	134	148	188	274	134	207	276	306	440	594	481	498	498	562	672	627
S.Reserve Total		1379	1672	1782	1788	1963	1756	2026	2102	2249	2007	1794	1869	1978	2048	2133	2482	2232	1855	1765	1700	1713	1731	1701	1671	1695	1568	1603	1576	1585	1474	1560	1444	1410	1427	1565	1736	1681	1958	1833	1322	1169	1270	1156	1182	1121	1211	1292	1315