

Daily System Generation Summary on Friday

Friday, July 9, 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	17,784 MW
Total Co-Gen	0 MW
Total System	23,618 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,386	4.03 %
Gas	65,788	21.43 %
Total TNB	78,174	25.47 %
ST-Coal	178,089	58.01 %
LSS	2,385	0.78 %
Gas	48,206	15.70 %
Total IPP	228,680	74.49 %
Co-Gen	155	0.05 %
Total Co-Gen	155	0.05 %
Total Generation	307,009	100.01 %
PLTG	-691	-0.23 %
HVDC	724	0.24 %
Interconnection	33	0.01 %
Net Energy	306,976	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	15,720 MW
TNB Generation	3,405 MW
IPP Generation	10,701 MW
Spinning Reserve	1,608 MW
Maximum Demand	14,084 MW
Net Energy	306,976 MWH
Load Factor	90.82 %

Fuel Cost

Total Cost:	45,499,454.17 RM
Cost per Unit	14.81 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	176
Hydro	132
Syncon	775
Thermal	619
Total	1,702

Time	Weather	Temperature
Afternoon	Rainy	31
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
TJGS	214
Total TNB	214
CBPS	55
NPRI	149
PLPS	6
Total IPP	210
Total Gas	424
Total Gas Required	424

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	13367	12742	12205	11787	11506	11278	11264	11216	11230	12203	12713	13006	13219	13259	13721	13814	13641	13453	12926	13093	14084	13909	13654	13582

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, August 5, 2021 10:45:04 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

Daily MW Generation on Friday

		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		699	698	690	696	695	513	354	359	353	354	355	353	354	403	514	556	606	673	697	696	691	696	696	696	695	697	696	693	696	693	516	505	506	510	690	697	691	605	501	495	438	435	434							
JMHE	U001		905	851	849	781	780	778	779	778	779	781	780	780	782	779	780	778	783	780	781	782	776	782	778	785	839	841	838	840	872	889	889	889	893	887	892	892	887	888	890	885	890	886	890	891	891	891	849	845	846	
JMHE	U002		903	850	850	779	764	780	779	779	781	777	781	778	777	781	779	779	783	780	781	781	779	780	778	780	843	838	840	879	890	888	889	890	890	891	890	888	888	888	888	890	889	889	890	892	849	849	849			
JMJG	U001		673	671	671	671	675	672	667	603	537	505	510	508	505	508	506	508	517	611	672	670	678	670	664	672	664	668	665	668	666	664	671	654	670	669	664	671	670	666	663	667	666	670	666	668	667	670				
JMJG	U002		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	206	281	354	430	487	516	519	518	518	546					
JMJG	U003		672	623	595	585	591	623	672	644	568	495	505	506	507	506	507	508	503	577	660	667	667	664	671	662	668	666	664	660	668	667	658	673	666	667	666	668	668	654	671	660	661	662	666	667	660	657	668	665		
JMJG	U004		918	858	798	788	789	787	787	791	789	790	786	789	789	790	786	787	791	788	788	788	790	788	787	788	789	790	788	844	846	886	895	895	894	895	894	894	894	892	896	894	892	896	892	894	895	852	858	854		
JMJG	U005		873	821	800	796	800	798	801	797	801	797	796	800	793	801	800	813	796	799	801	799	800	798	800	801	800	838	839	840	839	890	892	892	890	889	889	891	888	891	889	891	889	891	889	891	890	891	889	850	850	848
PKLG	U006		446	446	447	450	449	398	312	281	268	269	267	270	269	267	271	268	268	301	380	440	449	448	450	447	446	447	448	449	446	446	444	446	449	448	448	445	446	446	449	446	449	447	448	446	449	406	405	408		
TBIN	U001		601	497	501	396	335	299	300	300	299	300	300	300	301	300	299	300	299	300	358	401	456	501	517	550	549	547	547	600	689	687	688	638	641	601	549	408	401	401	401	601	691	691	521	500	427	401	401	401		
TBIN	U002		605	524	500	402	330	300	302	303	302	302	303	304	302	302	302	303	302	352	404	452	508	501	503	505	504	605	693	691	688	688	643	604	604	542	417	403	404	404	578	693	693	540	502	434	403	404	403			
TBIN	U004		894	853	853	851	855	852	852	853	851	853	853	854	853	853	855	853	855	853	853	853	854	852	849	851	855	855	855	855	857	893	894	890	893	891	893	890	894	893	895	894	890	891	894	893	854	854	854			
Total ST-Coal			8189	7692	7554	7195	7063	6800	6605	6488	6329	6223	6235	6241	6235	6241	6237	6248	6251	6445	6833	7047	7209	7341	7459	7501	7590	7693	7683	7896	8154	8298	8306	8259	8221	8137	8028	7583	7544	7568	7759	8378	8662	8737	8388	8251	8110	7745	7754	7778		
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			
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			
CBPS	BLK2		352	361	357	364	356	355	357	358	361	362	358	359	357	364	357	357	357	357	364	364	357	357	364	357	362	362	364	364	362	362	361	357	365	365	357	357	357	357	365	358	360	365	362	358	365	361	356			
NPRI	BLK1		499	511	502	509	500	500	505	501	510	509	510	505	506	500	500	511	511	507	514	508	505	508	509	509	509	511	511	510	510	511	511	511	510	508	511	505	509	510	508	501	503	515	510	506	512	505	497			
NPRI	BLK2		503	512	505	511	502	501	508	504	512	511	511	507	508	513	503	505	515	512	509	514	511	507	508	513	511	512	513	512	512	511	512	512	514	510	514	509	511	511	511	511	505	505	517	514	509	513	507	502		
PCGP	PGRG		591	603	592	601	587	586	596	591	601	600	601	592	597	601	588	588	603	602	595	602	600	595	598	601	599	602	601	602	603	602	601	603	604	604	598	602	597	599	602	601	591	593	609	604	597	603	597	587		
PLPS	GT11		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	44	44	45	45	46	45	55	69	129	130	130	130	129				
PLPS	ST18		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	36	56	59	58	58	58			
SPGP	BLK1		720	719	719	718	719	719	719	720	718	720	719	719	718	716	717	720	717	717	719	718	717	718	719	718	719	719	719	718	710	718	710	715	715	714	719	719	719	719	717	716	719	720	718	719	720	718	719			
SPGP	BLK2		721	720	718	718	719	720	720	719	719	718	719	721	718	718	719	721	717	717	718	719	721	720	719	719	718	719	719	718	710	718	710	710	719	719	719	719	719	719	719	719	719	719	719	719	719	719	718	721		
TJGS	GT1A		224	223	224	223	219	223	223	223	223	227	224	226	223	222	223	217	196	227	226	226	225	221	221	227	223	222	228	226	226	226	226	222	224	226	225	226	225	226	222	225	196	206	223	227	229	223	222			
TJGS	GT1B		211	216	214	216	209	214	219	216	215	219	217	214	220	217	215	210	187	218	216	216	216	216	214	214	219	216	217	218	214	218	217	214	215	214	218	215	216	216	214	212	189	193	217	215	220	219	211			
TJGS	ST1C		243	244	244	244	244	240	240	243	240	243	243	243	243	243	243	243	218	241	241	241	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244				
TJGS	GT2A		217	217	215	217	217	217	217	217	202	185	151	149	149	148	148	106	106	223	213	214	214	214	214	214	169	190	216	216	216	217	217	216	216	216	216	216	216	204	150	188	216	190	158	158	159	217	216	216		
TJGS	GT2B		213	213	213	213	213	213	213	213	201	184	150	146	146	145	145	103	103	220	211	211	212	209	210	212	212	166	187	214	213	212	212	212	212	212	212	212	201	147	183	213	185	155	156	154	212	212	212			
TJGS	ST2C		255	255	255	255	255	255	255	255	248	235	219	211	209	209	191	191	242	253	253	253	253	253	253	253	238	232	255	255	255	255	255	255	255	255	255	255	255	255	253	212	222	254	249	218	218	218	255	255	255	
Total CCGT-Gas			4749	4794	4758	4789	4740	4743	4752	4758	4750	4713	4622	4592	4594	4605	4567	4461	4421	4788	4767	4789	4786	4763	4767	4784	4773	4673	4701	4793	4790	4782	4785	4788	4783	4839	4823	4839	4794	4654	4722	4828	4784	4640	4774	4831	4816	4996	4963	4929		
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	HY03		11	12	12	12	11	11	12	12	12	12	12	12	12	12	24	24	24	24	24																															

Daily MW Generation on Friday

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																									
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	0	0	0																						
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	25	25	25	17																							
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	17																							
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25	17																								
TMGR	HY01	41	82	41	80	40	40	42	41	50	62	51	41	49	84	41	40	86	44	42	44	42	44	42	44	42	44																							
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	34	36	35	-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	-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	6	6	6	5	5	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	5	5	5	5	5	5	5	5	5	5	5																								
Total Hydro		433	513	438	473	419	401	405	403	415	440	418	404	413	488	409	361	448	477	442	479	465	465	457	511	476	451	494	478	509	525	525	526	482	468	444	571	498	529	594	680	660	649	733	690	685	850	805	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	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	4	7	7	12	10	16	20	19	20	26	25	13	26	20	20	23	6	13	15	15	3	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	1	2	3	5	7	14	16	15	11	5	0	0	2	2	3	2	3	2	1	2	2	2	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	4	3	7	18	28	26	15	24	25	24	23	12	1	10	5	8	5	7	4	2	2	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	4	10	13	11	11	13	15	36	19	21	26	14	41	9	8	7	6	6	8	7	5	5	3	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	1	3	10	15	20	19	26	26	22	19	24	26	23	15	9	17	15	15	13	23	7	3	3	1	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	3	4	8	10	15	13	12	16	16	17	20	25	20	18	13	16	15	13	6	5	3	4	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	2	5	9	15	14	17	39	26	26	36	24	13	8	13	6	7	5	7	7	3	3	2	1	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	1	4	6	12	23	27	32	38	34	43	50	42	45	35	38	24	16	13	9	24	16	9	5	2	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	2	3	7	9	27	31	24	33	37	37	32	33	15	3	11	6	11	11	12	7	5	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	0	2	4	6	3	4	11	14	30	30	30	27	16	30	13	9	5	5	10	8	8	7	4	1	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	1	3	5	6	7	9	11	13	14	15	24	23	24	25	20	17	17	20	26	21	16	3	3	1	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	5	16	10	13	34	35	29	30	42	27	36	20	26	9	15	15	16	12	6	11	11	6	1	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	1	3	7	10	12	20	26	19	31	28	35	30	26	15	21	16	15	28	4	3	3	2	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	1	2	3	4	5	6	9	8	9	12	14	12	13	16	14	14	13	12	11	10	10	7	2	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	2	6	21	17	21	30	28	30	30	30	30	14	12	30	17	16	8	15	24	5	3	3	1	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	7	40	92	134	169	242	312	327	360	372	401	377	302	298	220	200	178	171	158	176	118	68	43	14	0	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	3	3	4	4	3	3	3	4	2	3	2	4	4	4	3	4	3	4	2	3	4	3	4	3	3	3	4	2	4	2	4	2	4	3	3	3	4	4	3	3	3	3	4	3	3	3	2	3	
PCUF	CUFK	6	3	4	3	3	3	3	4	3	4	5	3	4	4	3	2	3	3	3	3	3	3	3	3	3	4	2	3	4	3	4	3	4	4	3	4	3	2	3	3	2	4	2	3	2	2	3		
Total Co-Gen		9	6	8	7	6	6	6	8	5	7	7	7	8	8	6	5	7	6	7	5	6	7	6	8	7	6	6	8	4	7	6	7	7	7	6	8	7	5	6	6	5	8	5	6	5	4	6		
Total Gen		13380	13005	12758	12464	12228	11950	11788	11657	11499	11383	11282	11244	11250	11342	11219	11082	11167	11808	12183	12489	12708	12888	13016	13164	13219	13225	13261	13475	13759	13829	13823	13757	13664	13609	13478	13117	12912	12801	13114	13892	14112	14031	13903	13777	13617	13596	13526	13335	
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		29	30	30	31	31	31	31	30	30	31	31	30	30	31	31	31	30	30	30	30	29	31	31	30	30	30	29	29	30	30	29	29	30	30	31	31	30	30	31	31	29	29	30	30	29	29	30		
TIE-PLTG		-9	-40	-8	-47	-1	-28	-22	-22	-30	-54	-19	-11	-37	-55	-21	-29	-85	-58	-45	-45	-29	-8	-14	-28	-23	-34	-21	-16	16	-1	-14	15	1	-9	2	-88	-41	-21	-5	-30	1	17	-31	-53	-62	-109	-81	-50	
Interconnection		20	-9	23	-16	30	3	8	8	0	-23	11	20	-7	-25	10	0	-56	-27	-13	-14	2	22	17	2	7	-4	9	14	45	29	16	44	30	21	32	-57	-10	9	25	1	32	45	-2	-23	-33	-80	-52	-20	
System Total		13367	13021	12742	12487	12205	11954	11787	11656	11506	11413	11278	11231	11264	11374	11216	11089	11230	11842	12203	12510	12713	12873	13006	13169	13219	13236	13259	13468	13721	13807	13814	13720	13641	13595	13453	13181	12926	12796	13093	13895	14084	13990	13909	13804	13654	13680	13582	13359	
SRev ST-Coal		576	630	692	694	681	829	785	858	885	883	883	882	883	882	871	883	882	792	748	733	743	697	677	681	644	647	646	516	476	476	521	565	587	602	651	655	685	679	601	467	500	669	664	662	747	738	883		
SRev CCGT-Gas		149	104	140	109	158	155	126	140	148	185	276	306	304	293	331	437	477	110	131	109	112	135	131	114	125	225	197	105	108	116	113	110	115	202	218	202	247	387	299	135	219	363	341	284	299	119	15		