

Daily System Generation Summary on Friday

Friday, July 16, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,127 MW
Distillate	0 MW
Total TNB	2,127 MW
Total IPP	18,099 MW
Total Co-Gen	0 MW
Total System	23,875 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,352	5.74 %
Gas	67,556	21.13 %
Total TNB	85,908	26.88 %
ST-Coal	183,921	57.54 %
LSS	3,614	1.13 %
Gas	45,839	14.34 %
Total IPP	233,374	73.01 %
Co-Gen	160	0.05 %
Total Co-Gen	160	0.05 %
Total Generation	319,442	99.93 %
PLTG	485	0.15 %
HVDC	-697	-0.22 %
Interconnection	-212	-0.07 %
Net Energy	319,654	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	15,957 MW
TNB Generation	4,513 MW
IPP Generation	10,474 MW
Spinning Reserve	963 MW
Maximum Demand	15,006 MW
Net Energy	319,654 MWH
Load Factor	88.76 %

Fuel Cost

Total Cost:	48,963,153.75 RM
Cost per Unit	15.32 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	131
Hydro	358
Syncon	380
Thermal	541
Total	1,410

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
SRDG	5
TJGS	219
Total TNB	224
NPRI	154
SKSP	45
Total IPP	200
Total Gas	424
Total Gas Required	424

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	13776	13134	12556	12066	11752	11518	11439	11470	11446	12458	12958	13310	13521	13624	13996	14322	14498	14359	13723	13647	14947	15006	14849	14890

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, August 5, 2021 10:51:07 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

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																								
JMAH	U002	696	695	694	699	602	582	481	405	352	354	352	353	355	354	356	354	406	459	506	505	555	555	609	604	608	604	605	607	607	670	696	699	696	698	696	697	695	697	694	694	697	694	691	693	696	698	695	
JMHE	U001	917	920	852	852	780	767	778	778	779	780	783	780	779	779	776	781	779	781	782	819	849	850	851	849	850	849	853	851	900	901	901	899	902	898	900	898	898	898	908	928	931	928	929	930	928	929	930	932
JMHE	U002	919	920	853	851	784	780	781	777	780	780	781	782	780	779	781	780	781	780	779	824	850	848	849	849	850	850	856	849	902	900	899	898	901	900	904	898	901	898	903	929	931	933	929	930	930	931	931	931
JMJG	U001	669	672	673	671	674	671	671	672	613	549	519	510	506	509	511	506	538	596	641	644	669	670	671	673	668	673	672	669	667	677	672	671	678	668	675	671	601	669	673	672	672	667	670	605	495	485	510	591
JMJG	U002	590	596	592	595	595	596	600	592	571	543	502	503	506	511	508	508	541	596	644	645	669	677	669	668	669	672	673	671	673	676	675	676	672	671	672	676	675	673	671	672	680	675	674	672	672	669	676	
JMJG	U004	925	872	855	847	787	788	790	789	791	790	788	787	790	789	790	789	787	790	788	830	856	856	856	856	854	854	859	855	887	907	905	905	907	905	906	909	911	906	906	933	933	933	934	934	935	933	934	933
JMJG	U005	887	847	847	825	797	798	799	799	800	798	800	799	796	798	800	800	798	801	800	854	850	848	850	848	848	850	852	852	890	891	889	890	887	887	895	888	887	890	892	887	890	887	892	887	888	889	889	889
PKLG	U006	448	449	448	448	450	450	450	449	449	445	446	450	449	449	449	450	449	448	446	446	453	450	446	449	448	446	446	448	449	446	449	448	449	448	449	448	449	448	449	448	449	450	447	449	446	446		
TBIN	U001	689	690	657	507	448	399	347	316	302	301	301	302	301	301	302	301	339	400	417	451	450	450	463	499	551	550	550	601	662	690	690	691	690	689	689	689	690	689	688	690	689	689	689	690	689	690	690	
TBIN	U003	690	691	697	514	449	404	350	345	296	309	302	303	303	303	303	304	346	403	421	452	453	452	507	504	552	551	553	553	552	602	657	719	675	694	692	689	690	691	692	689	691	693	690	689	689	692	693	692
TBIN	U004	922	855	854	852	852	853	853	852	852	851	852	853	853	853	854	854	853	853	853	853	855	853	853	852	852	853	854	852	902	904	903	903	903	901	906	905	904	904	904	933	932	932	932	933	932	933	933	930
Total ST-Coal		8352	8207	8022	7661	7218	7088	6900	6775	6585	6501	6425	6421	6418	6425	6429	6427	6566	6854	7030	7324	7456	7511	7610	7657	7746	7756	7772	7753	7978	8115	8279	8396	8362	8359	8387	8367	8303	8363	8384	8472	8493	8481	8483	8411	8298	8298	8323	8405
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	521	530	531	532	530	530	527	525	524	530	527	530	530	530	530	530	530	530	521	530	529	524	529	526	525	526	527	526	527	520	527	528	529	530	527	516	526	528	531	530	530	531	532	530	524	529		
NPRI	BLK2	526	529	528	527	531	532	530	530	526	532	530	534	532	533	532	528	525	530	533	524	530	528	529	526	524	521	520	520	522	520	522	520	523	523	523	523	518	523	524	524	527	527	526	524	526			
PCGP	PGRG	597	603	604	603	603	603	601	599	598	604	601	604	603	602	601	600	600	604	603	598	603	603	599	604	602	604	608	602	603	603	597	602	604	602	602	601	594	607	605	610	601	602	603	602	602	597	616	
SKSP	BLK1	302	231	219	223	241	216	219	217	217	216	217	216	219	220	218	217	218	226	219	217	221	220	314	219	245	238	338	219	261	331	276	233	294	289	217	241	220	221	221	338	334	332	334	334	336	331	329	
SPGP	BLK1	725	725	725	724	725	725	724	725	724	726	722	726	724	724	727	727	725	724	725	724	723	723	722	720	721	721	717	716	716	713	712	718	715	714	717	717	720	727	724	725	725	724	726	726	723	725	724	
SPGP	BLK2	725	726	724	724	726	726	724	724	724	726	724	723	725	724	727	726	726	724	725	725	724	723	725	724	724	726	725	724	723	726	723	726	725	723	727	724	724	726	724	725	725	724	724	725	724	725	725	
TJGS	GT1A	223	226	227	226	226	228	227	223	223	227	227	228	224	227	224	229	196	228	223	227	224	226	222	226	222	223	226	224	222	226	226	221	222	222	222	224	226	227	224	226	221	223	223	222	222			
TJGS	GT1B	216	216	215	218	215	214	214	215	214	215	214	216	220	219	215	214	189	221	217	217	213	216	215	218	216	212	217	216	214	217	215	212	215	216	217	215	216	214	214	214	223	215	214	218	217	215	216	217
TJGS	ST1C	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	222	240	240	243	243	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	243	243	243	246	246	246	246	246	246	242		
TJGS	GT2A	217	217	217	217	217	217	217	217	187	187	168	148	185	215	168	168	217	217	215	215	214	217	217	214	216	214	215	215	215	215	215	215	217	214	216	216	216	216	216	215	215	215	215	217	224	216		
TJGS	GT2B	212	212	214	214	214	214	212	212	215	182	182	163	142	182	212	162	165	213	213	213	213	213	213	213	213	211	211	211	211	212	212	212	212	212	213	213	213	213	213	213	211	211	213	212	214	221	212	
TJGS	ST2C	254	254	254	254	254	254	254	254	235	235	222	211	233	254	225	222	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	259	254		
Total CCGT-Gas		4761	4712	4701	4705	4725	4702	4692	4684	4679	4628	4608	4574	4518	4621	4697	4565	4480	4703	4706	4680	4690	4693	4687	4793	4680	4704	4706	4795	4669	4722	4785	4710	4694	4761	4742	4682	4701	4654	4694	4692	4832	4807	4805	4812	4813	4810	4814	4816
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122	125	128	128	129	129	129	
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	122	125	128	128	129	129	129	
BSIA	HY01	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	11	11	11	0	0	0	23	23	23	23	23	23	23	23	23	
BSIA	HY02	12	13	13	13	13	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	23	23	23	23	23	24	23	23	23	22								

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			
PGAU	HY01		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	-1	-1	20	20	-1	-1		
PGAU	HY03		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	21	0	0	20	20	20	20		
PGAU	HY04		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	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	30	48	48	47	47		
SIHY	HY02		0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	31	0	0	30	50	50	50		
SIHY	HY03		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	50	50	30		
SYPS	HY02		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	17		
SYPS	HY03		0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	0	0	0	17	17	25	25		
SYPS	HY04		0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	0	0	0	17	17	25	25		
TMGR	HY01		34	35	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	32	34	34	34	34	34	34	84	84		
TMGR	HY03		32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	30	32	32	32	32	32	84	83		
TMGR	HY04		40	50	55	62	83	41	41	41	42	42	42	44	42	64	63	72	41	66	53	40	42	42	41	65	84		
UJLI	HY01		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	93	93	91	-1	-1	-1	53	183		
UJLI	HY02		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	94	94	86	95	95	95	95	84	96		
UPIA	HY01		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	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			636	484	332	399	579	479	490	465	462	505	462	463	465	470	329	329	323	326	517	552	465	576	600	605	602	625	
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	
BDLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	6	10	14	17	19	21	23	25	26	26	25	24	23	20	
BKLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	3	7	7	13	22	17	20	30	32	32	31	13	32	32	
BSLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	2	7	9	17	20	24	13	28	27	30	23	30	23	30	
CHLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	2	9	13	14	22	20	25	31	36	39	40	44	35	40	
GBLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	5	8	16	22	22	30	34	39	40	39	42	33	36	
GELS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	2	8	7	13	14	10	7	13	28	28	28	25	28	26	
GNLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	3	6	15	22	26	31	36	26	34	32	39	38	30	41	
JLSL	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	10	17	17	17	27	35	42	43	23	37	43	
KKLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	20	25	22	26	33	38	41	12	41	38	31	
KRLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	4	10	14	18	19	25	29	30	23	23	30	17	30	30	
MCLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	5	8	16	24	29	32	41	26	29	23	11	27	38	
SPLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	4	11	18	27	32	39	45	49	52	27	43	52	48	39	
SSLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	14	20	27	28	30	35	26	37	31	23	39	
STLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	7	11	18	17	22	28	11	19	8	13	19	
TBLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	6	14	20	17	30	30	30	30	30	30	30	30	30	
Total LSS			0	0	0	0	0	0	0	0	0	0	0	0	7	52	119	187	269	340	361	406	456	473	469	417	443	489	
PCUF	CUFG		4	2	5	4	3	5	3	2	3	4	3	3	4	3	3	4	3	2	3	4	3	4	3	4	2	4	
PCUF	CUFK		4	3	4	4	3	5	2	2	4	3	2	5	4	3	2	3	6	4	4	3	4	2	4	3	3	3	
Total Co-Gen			8	5	9	8	6	10	5	4	7	7	6	7	6	5	6	8	7	6	6	9	8	7	5	7	6	7	8
Total Gen			13757	13408	13064	12773	12528	12279	12087	11928	11733	11641	11501	11465	11407	11521	11461	11336	11428	12008	12446	12831	12960	13149	13310	13516	13508	13560	
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	
TIE-HVDC			-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28		
TIE-PLTG			17	-10	-34	-54	8	-23	58	36	17	-7	19	42	3	30	27	15	18	-29	24	66	39	22	36	18	23		
Interconnection			-12	-39	-63	-83	-21	-52	28	6	-12	-36	-10	13	-25	1	-2	-15	-11	-59	-5	37	9	-7	7	-10	-6		
System Total			13776	13454	13134	12863	12556	12338	12066	11929	11752	11684	11518	11459	11439	11527	11470	11358	11446	12074	12458	12801	12958	13163	13310	13533	13521	13628	
SRev ST-Coal			433	445	515	628	713	718	713	724	834	838	838	834	835	832	838	834	839	836	791	735	685	682	690	688	696	685	
SRev CCGT-Gas			112	161	172	168	148	171	181	189	194	245	265	299	355	252	176	308	393	170	167	193	183	180	186	80	193		
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	
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	

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																								
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																								
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																								
Syncon		651	839	926	926	825	825	825	825	825	825	825	926	926	926	926	825	825	738	738	738	738	738	551	213	364	364	126	126	126	126	313	464	565	565	277	151	0	0	151	151	0	0	151					
Hydro		316	232	217	150	71	171	160	185	188	145	188	187	185	180	220	220	226	223	133	198	286	175	151	146	149	126	123	208	461	306	319	502	531	531	627	599	389	392	360	393	384	555	554	415	394	394	500	707
S.Reserve Total		1512	1677	1830	1872	1757	1885	1879	1923	2041	2053	2116	2145	2200	2089	2160	2288	2384	2155	1916	1951	1892	1775	1765	1652	1776	1718	1711	1526	1521	1449	1312	1231	1296	1227	1318	1557	1525	1630	1543	1204	908	965	964	951	972	794	906	1262