

Daily System Generation Summary on Thursday

Thursday, July 8, 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	17,644 MW
Total Co-Gen	0 MW
Total System	23,478 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,779	5.36 %
Gas	53,857	17.21 %
Total TNB	70,636	22.57 %
ST-Coal	191,318	61.13 %
LSS	3,097	0.99 %
Gas	47,855	15.29 %
Total IPP	242,270	77.41 %
Co-Gen	165	0.05 %
Total Co-Gen	165	0.05 %
Total Generation	313,071	100.03 %
PLTG	-610	-0.19 %
HVDC	718	0.23 %
Interconnection	108	0.03 %
Net Energy	312,963	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:	15:30:00 Hour
Total Set On Bus	15,847 MW
TNB Generation	3,366 MW
IPP Generation	10,904 MW
Spinning Reserve	1,569 MW
Maximum Demand	14,256 MW
Net Energy	312,963 MWH
Load Factor	91.47 %

Fuel Cost

Total Cost:	46,145,143.00 RM
Cost per Unit	14.73 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	130
Hydro	565
Syncon	462
Thermal	386
Total	1,543

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
TJGS	136
Total TNB	136
CBPS	55
NPRI	151
Total IPP	206
Total Gas	342
Total Gas Required	342

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	13431	12865	12321	11937	11620	11394	11311	11333	11400	12531	13049	13418	13583	13669	13998	14162	14136	13910	13230	13345	14235	14139	13945	13914

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, August 5, 2021 10:43:32 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

Daily MW Generation on Thursday

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	697	695	694	696	691	679	654	656	643	552	553	504	504	505	462	475	689	694	699	694	696	693	693	693	700	696	695	696	694	695	695	697	694	698	695	696	695	698	695	697	701	691	696	698	693	697		
JMHE	U001	882	879	879	782	778	779	784	776	783	780	780	778	781	781	778	783	779	777	781	780	842	839	836	842	842	840	840	843	952	954	950	950	952	946	950	950	919	922	922	917	919	921	919	917	920	920	921	922	
JMHE	U002	880	879	879	781	777	780	782	777	783	781	779	781	781	780	776	782	779	776	781	779	840	840	838	840	841	838	843	842	955	952	950	950	950	948	950	950	919	922	922	918	922	921	920	919	920	920	921	921	
JMJG	U001	676	672	672	673	673	675	673	671	676	672	675	671	668	673	673	673	661	683	677	664	664	666	667	666	668	669	672	667	668	667	670	672	672	671	672	673	668	673	672	676	672	674	670	671	673	668	669	673	
JMJG	U003	666	666	666	667	662	662	670	666	662	667	666	667	666	668	666	666	670	666	669	665	666	661	669	663	665	666	656	593	542	547	550	609	683	666	669	668	601	506	501	573	652	580	547	562	590	630	679	671	
JMJG	U004	886	886	885	884	886	883	887	887	885	826	789	787	788	790	787	789	790	787	787	798	845	845	846	847	845	847	846	846	887	945	953	954	955	956	955	952	936	925	925	923	924	921	924	920	923	925	923	922	
JMJG	U005	880	880	880	815	798	801	804	801	803	804	801	799	805	803	803	803	805	801	801	805	841	839	842	839	839	840	838	843	892	889	890	891	887	888	892	891	889	892	889	889	892	892	886	891	892	890	889	891	
PKLG	U006	451	449	449	451	449	447	449	446	445	449	450	451	451	449	446	449	444	449	450	446	449	445	449	446	448	444	444	445	447	449	446	448	449	448	449	448	446	446	450	446	458	451	450	450	447	448	450	439	
TBIN	U001	689	689	690	691	649	547	489	402	317	302	302	301	302	301	301	302	303	443	612	691	689	690	689	689	691	690	689	689	689	691	684	690	689	690	689	691	690	689	689	690	689	689	690	689	692	690	644		
TBIN	U002	699	695	694	695	654	558	497	404	328	299	303	303	305	301	302	303	303	428	601	693	691	693	692	692	697	690	692	693	693	694	692	691	692	687	692	653	653	655	695	692	695	695	693	693	694	696	692	657	
TBIN	U004	884	883	881	855	854	855	853	851	853	854	853	851	851	852	852	852	854	854	851	853	852	852	880	906	962	1015	1014	1013	1013	1013	1011	1015	1012	1014	1013	1011	950	952	925	924	921	925	922	924	926	924	924	921	
Total ST-Coal		8289	8275	8270	7988	7876	7678	7567	7335	7191	7077	6950	6942	6902	6902	6889	6864	6866	7353	7704	7873	8073	8066	8102	8123	8190	8245	8235	8169	8432	8491	8501	8557	8638	8610	8625	8546	8329	8241	8286	8347	8440	8366	8321	8328	8370	8411	8451	8358	
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	
CBPS	BLK2	360	358	358	358	362	362	350	357	354	361	361	357	362	360	362	362	362	360	359	359	362	362	361	361	362	362	357	357	360	360	362	362	357	362	360	362	362	362	362	362	362	362	362	363	363	364	359		
NPRI	BLK1	521	516	520	518	519	517	510	520	519	524	522	526	525	523	524	524	521	525	524	526	523	518	523	509	508	509	510	511	508	511	510	508	509	506	510	510	510	509	512	506	509	510	506	505	509	507	510		
NPRI	BLK2	527	523	526	526	525	524	518	524	528	527	532	529	532	533	530	528	533	529	531	529	527	527	525	524	511	510	513	513	512	510	512	514	509	510	509	514	512	513	511	516	509	512	513	509	512	510	514	514	
PCGP	PGRG	596	590	595	595	593	590	584	593	595	596	602	597	603	603	600	601	601	597	602	602	602	600	595	607	602	598	601	604	603	598	604	600	598	598	597	601	600	603	600	607	596	604	603	596	595	601	601	603	
SPGP	BLK1	717	717	717	719	718	718	717	720	719	719	718	719	719	718	719	720	717	719	720	719	720	719	718	716	718	714	715	710	713	708	712	716	714	713	715	720	717	720	719	718	719	718	719	719	719	719	721		
SPGP	BLK2	718	718	719	719	720	719	717	720	719	718	717	717	718	719	718	717	718	719	718	719	718	720	730	728	728	718	718	716	717	718	719	718	719	718	719	718	718	717	719	719	718	718	718	718	718	718	720		
TJGS	GT1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TJGS	GT1B	220	221	169	167	166	166	168	167	168	167	169	168	168	166	169	167	167	217	221	219	220	221	222	206	203	202	207	210	162	166	167	221	175	168	167	162	165	164	162	189	236	220	223	222	231	213	215	217	217
TJGS	ST1C	113	113	88	88	88	88	85	85	88	88	88	88	88	88	88	88	88	107	113	116	120	120	120	112	109	109	109	95	91	91	114	113	93	93	93	93	93	88	188	254	254	254	254	246	246	246	243		
TJGS	GT2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TJGS	GT2B	213	213	153	153	153	153	153	153	153	156	153	155	155	155	155	155	155	153	209	210	213	213	213	199	199	190	200	153	165	211	214	213	213	211	181	183	213	212	212	212	212	213	213	213	213	213	213		
TJGS	ST2C	118	118	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	114	118	120	120	120	114	114	114	114	113	215	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255		
Total CCGT-Gas		4103	4087	3945	3943	3944	3937	3902	3939	3944	3952	3965	3953	3970	3965	3964	3964	3965	4020	4112	4115	4128	4124	4113	4094	4053	4039	4086	4125	4218	4346	4359	4437	4377	4356	4344	4277	4283	4366	4526	4699	4808	4814	4814	4802	4776	4790	4789	4795	
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	0	
BSIA	HY01	22	22	22	22	11	11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	17	23	23	23	23	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
BSIA	HY02	23	23	22	22	11	11	11	12	11	11	12	12	12	12	12	12	12	24	24	24	11	11	12	23	22	22	22	11	11	11	11	11	11	11	11	11	11	11	11	11	12	11	12	11	11	12	11	11	
BSIA	HY03	22	22	22	22	11	11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	12	23	23	23	23	11	11	11	11	11	11	11	11	11	11	11	12	11	12	11	12	11	11	12	11	11	

Daily MW Generation on Thursday

		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	-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	0	0	0	0	0
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	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31
SIHY	HY02	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30
SIHY	HY03	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30
SYPS	HY01	16	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	17	17	25	25
SYPS	HY02	16	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	20	25	25
SYPS	HY03	16	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	23	25	25
SYPS	HY04	16	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	25
TMGR	HY01	84	84	33	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	81	45	54	84	54	47	42	84	61	42	55
TMGR	HY03	83	84	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	32	32	32	84	32	84	32	32
TMGR	HY04	79	77	78	78	78	76	78	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79
UJLI	HY01	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	89	-1	-1	-1	89	87	94	92	88	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	90	95	95	91	94	95	
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
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		1026	809	676	629	511	501	490	435	447	433	470	433	465	472	442	357	495	576	513	565	513	676	778	872
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	5	8	13	11	13	16	17	11
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	14	8	12	17	19	17	15	20
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	10	16	20	23	21	31	29	26	15
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	7	22	19	31	33	29	32	27	16
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	14	20	25	12	30	39	17	24
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	10	8	9	11	15	10	18	21
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	12	20	22	21	17	27	30	35	46
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	10	18	10	25	12	21	24	24	31
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	12	20	25	31	33	41	32	36	37
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	9	13	16	25	23	30	30	30	29
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	11	16	24	29	26	20	18	20
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	13	29	31	37	45	35	51	9	40
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	7	12	20	25	32	36	21	30	33
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	10	13	13	16	15	15	17	18
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	12	26	30	30	30	30	25	30
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	9	43	94	156	247	300	326	371	402	383	362
PCUF	CUFG	3	3	4	3	3	5	3	4	2	3	4	3	3	3	3	4	3	3	4	5	4	3	4	5
PCUF	CUFK	4	2	4	2	3	3	4	2	4	3	3	2	2	3	4	4	3	3	4	4	3	4	4	5
Total Co-Gen		7	5	8	5	6	8	7	6	6	6	7	5	7	9	8	6	6	5	6	7	7	8	7	6
Total Gen		13425	13176	12899	12565	12337	12124	11966	11715	11588	11468	11392	11333	11344	11348	11303	11200	11375	12049	12490	12806	13021	13199	13371	13499
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
TIE-HVDC		30	30	30	30	30	29	29	29	29	30	30	31	31	30	30	30	30	31	31	30	29	29	29	30
TIE-PLTG		-29	20	11	-37	-7	-18	7	-24	-54	-31	-25	44	9	-39	-52	-49	-49	-60	-64	-81	-52	-69	-70	-94
Interconnection		1	49	41	-7	23	11	36	5	-25	-2	5	74	40	-9	-23	-19	-18	-30	-34	-50	-21	-39	-40	-65
System Total		13431	13134	12865	12579	12321	12120	11937	11717	11620	11477	11394	11266	11311	11364	11333	11226	11400	12086	12531	12863	13049	13245	13418	13571
SRev ST-Coal		458	468	470	531	630	680	680	722	714	721	732	738	736	734	740	734	743	671	664	552	524	530	515	521
SRev CCGT-Gas		86	102	244	246	245	252	287	250	245	237	224	236	219	224	225	225	224	169	77	74	61	65	76	95
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

Daily MW Generation on Thursday

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-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 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		464	464	551	551	638	638	638	638	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825
Hydro		174	141	187	134	165	175	186	113	101	114	77	114	82	75	105	190	52	320	132	267	132	284	756	662
S.Reserve Total		1182	1175	1452	1462	1678	1745	1791	1723	1698	1897	1858	1913	1862	1858	1895	1974	1844	1647	1611	1444	1455	1430	1624	1555