

Daily System Generation Summary on Sunday

Sunday, September 5, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,069 MW
Distillate	0 MW
Total TNB	2,069 MW
Total IPP	17,819 MW
Total Co-Gen	0 MW
Total System	22,836 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,826	5.99 %
Gas	35,907	11.42 %
Total TNB	54,733	17.41 %
ST-Coal	187,149	59.53 %
LSS	3,737	1.19 %
Gas	68,174	21.69 %
Total IPP	259,060	82.41 %
Co-Gen	1,254	0.40 %
Total Co-Gen	1,254	0.40 %
Total Generation	315,047	100.22 %
PLTG	1,370	0.44 %
HVDC	-690	-0.22 %
Interconnection	680	0.22 %
Net Energy	314,367	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	16,221 MW
TNB Generation	2,751 MW
IPP Generation	11,937 MW
Spinning Reserve	1,479 MW
Maximum Demand	14,714 MW
Net Energy	314,367 MWH
Load Factor	89.02 %

Fuel Cost

Total Cost:	48,845,417.92 RM
Cost per Unit	15.49 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	160
Hydro	223
Syncon	521
Thermal	879
Total	1,783

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	25

Gas Usage

Station	(mmcsfd)
GLGR	29
TJGS	104
Total TNB	133
CBPS	53
NPRI	83
PGLA	79
PLPS	37
Total IPP	252
Total Gas	385
Total Gas Required	385

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	13901	13386	12960	12543	12316	11896	11852	11655	11249	11824	12303	12688	12910	13075	13545	13748	13835	13602	13333	13676	14714	14598	14447	14273

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 6, 2021 10:45:37 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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	U001	594	552	552	550	551	445	401	399	302	301	299	300	301	300	300	301	302	299	300	401	402	401	341	300	298	300	351	406	453	451	451	390	351	353	354	511	614	694	689	698	649	552	551	553	551				
JMAH	U002	616	553	555	556	554	443	405	404	302	303	301	305	306	306	303	305	305	307	301	304	306	305	411	403	405	344	304	304	302	357	411	458	453	456	390	354	356	354	492	618	697	695	707	646	554	556	556	503	
JMHE	U001	903	900	850	849	778	779	782	782	780	778	779	780	783	781	782	779	779	781	779	776	778	773	778	779	849	847	849	847	850	847	853	849	850	844	851	854	849	852	893	920	917	923	922	921	920	924	920	922	
JMHE	U002	903	900	858	852	780	779	782	779	779	778	779	779	782	778	779	778	781	781	779	780	781	775	779	777	851	846	848	846	852	849	852	849	853	846	852	851	851	850	902	919	921	921	921	921	917	923	921	919	
JMJG	U001	656	656	639	597	596	596	598	596	596	598	601	594	596	600	593	596	598	603	595	596	597	593	607	607	613	678	647	643	672	672	671	673	672	671	652	654	657	664	659	623	630	618	600	593	598	596	598	604	
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	19	167	293	377	407	417	462	492	557	643	644	647	648	645	653	628	627	612	595	601	596	597	597	476		
JMJG	U003	656	652	627	592	597	599	589	598	515	507	462	449	444	447	444	447	448	447	447	447	472	541	622	669	664	649	662	664	667	667	666	668	664	652	651	654	656	656	621	623	612	593	601	596	595	595	591		
JMJG	U004	905	902	882	827	790	787	788	789	790	788	789	789	789	789	789	788	788	622	692	742	786	789	821	856	854	855	855	855	854	854	856	855	854	854	854	855	878	920	922	923	922	923	922	923	924	925			
JMJG	U005	887	887	845	801	800	798	804	801	801	801	800	797	797	801	799	800	801	801	799	801	798	801	801	799	849	851	856	849	852	852	852	848	850	851	850	853	849	861	890	890	887	887	891	887	892	887	887		
PKLG	U005	268	271	268	269	269	269	269	269	269	268	269	269	269	268	267	268	267	269	268	269	268	269	270	269	267	272	269	268	272	269	267	269	267	269	267	270	269	268	267	267	266	269	269	268	269	270	269	269	
PKLG	U006	452	379	360	361	358	359	359	357	286	283	278	279	277	279	278	277	279	278	277	279	278	277	278	276	280	320	359	358	389	439	448	449	448	450	450	450	450	448	446	449	448	448	448	440	446	446	448	448	446
TBIN	U001	500	458	402	401	399	390	296	300	300	299	300	301	300	300	302	300	302	300	301	300	301	300	300	302	301	301	300	300	300	301	301	301	300	300	301	300	301	301	301	301	301	301	301	301	301	301	301	301	
TBIN	U002	503	449	401	402	403	388	302	301	303	304	303	304	307	304	303	305	302	303	302	304	302	301	304	302	304	303	308	303	304	305	302	304	303	304	303	304	303	301	304	302	305	303	306	304	301	303	306	304	304
TBIN	U004	903	903	871	852	851	851	855	853	855	854	853	852	854	853	854	852	853	856	852	853	853	853	853	853	854	852	849	852	851	855	852	855	855	851	854	853	851	871	925	922	923	923	922	925	923	923	926		
Total ST-Coal		8746	8462	8110	7909	7726	7483	7230	7228	6877	6864	6813	6801	6805	6802	6797	6797	6803	6815	6793	6630	6703	6758	7103	7187	7473	7677	7681	7803	7913	8042	8207	8316	8387	8457	8308	8244	8246	8249	8695	8999	9161	9127	9082	8984	8786	8805	8796	8624	
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	354	360	357	357	348	362	343	364	350	311	304	327	347	268	228	238	278	291	362	337	373	370	371	364	365	365	367	369	367	363	364	366	367	368	372	364	370	357	367	340	315	307	348	363	362	359	361	
EMPP	BLK1	749	745	744	755	744	738	754	717	758	741	744	751	757	765	754	758	757	764	761	755	746	755	742	755	747	743	744	752	745	749	744	748	750	735	726	700	736	747	733	754	756	755	751	750	759	761	747	763	
GLGR	GT01	96	95	97	95	94	96	95	95	94	95	96	95	97	96	96	95	97	95	96	94	96	95	96	95	96	95	96	94	96	96	95	98	97	96	97	95	96	97	95	95	95	94	95	95	95	95			
GLGR	ST1C	41	40	40	41	41	40	39	41	41	40	41	40	41	40	40	40	41	39	40	40	40	41	40	41	40	41	40	40	41	41	40	41	41	41	41	41	41	41	41	41	41	41	40	41	40	40	41		
NPRI	BLK1	515	506	511	508	506	500	512	486	511	500	510	511	422	515	474	346	347	349	353	507	502	515	505	508	505	506	503	508	507	509	505	509	510	502	511	509	507	508	497	510	510	509	505	504	509	506	504	509	
NPRI	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	121	122	122	179	216	229	286			
PCGP	PGRG	603	590	598	594	591	581	601	562	599	583	596	597	607	603	595	352	355	453	604	597	592	612	599	602	595	598	590	603	600	602	601	602	604	592	610	605	600	602	585	604	603	604	598	595	603	602	597	602	
PGLA	GT11	216	213	216	215	214	212	216	206	216	208	175	174	197	172	175	179	185	174	188	192	182	217	224	227	226	159	222	225	226	224	225	226	225	223	220	226	228	227	222	228	231	232	230	230	213	168	158	199	
PGLA	GT12	219	217	219	221	219	217	221	211	220	212	179	179	200	177	180	184	190	178	193	198	187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGLA	ST10	233	234	234	236	235	232	236	229	237	233	206	208	212	214	207	206	208	207	212	221	225	78	114	116	114	90	112	115	115	114	114	115	115	115	115	115	115	115	115	116	115	116	106	92	88	101			
PLPS	GT11	128	128	129	129	129	128	129	128	129	128	129	129	129	129	128	129	128	129	128	129	129	129	128	128	128	128	128	128	129	129	128	128	129	129	144	142	141	142	142	142	142	143	143	143	143	143			
PLPS	ST18	57	58	59	58	58	57	57	57	57	57	57	57	57	57	58	58	58	58	58	57	57	58	58	55	57	58	58	56	57	58	58	57	58	58	57	56	61	59	58	59	59	57	58	58	60				
SPGP	BLK2	723	724	724	724	724	724	726	725	726	724	724	722	724	726	726	726	598	723	724	726	726	725	720	719	717	721	724	712	716	713	711	707	709	720	724	725	723	724	725	726	726	727	724	724	727	727	723	726	
TJGS	GT2A	214	215	215	215	215	215	215	215	216	216	190	193	140	149	135	107	107	107	107	151	221	216	216	216	216	215	216	217	217	216	216	216	215	217	216	217	217	217	214	217	217	217	217	217	216	214			

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	HY03	54	96	94	97	96	95	96	91	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96		
KNYR	HY04	54	97	95	98	98	96	98	92	98	97	96	97	98	98	98	98	98	98	98	98	98	97	98	98		
LPIA	HY01	24	24	24	22	22	22	22	19	19	18	18	16	15	13	13	13	18	20	20	20	20	20	26	26		
LPIA	HY02	0	0	0	0	0	0	0	15	15	20	20	20	25	25	20	15	0	0	0	0	0	0	0	0		
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		
PGAU	HY01	-1	-1	-1	-1	-1	-1	17	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	21	-1	-1	-1		
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	48	48	47		
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	32	50	50	50	50	30	30	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		
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	17	17	17	17	17	17		
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	17	25	16		
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	16		
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	25	25	16		
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	29	82	82	-1		
TMGR	HY02	48	42	43	45	44	40	44	37	58	40	47	56	88	64	43	73	79	51	78	44	42	86	45	67		
TMGR	HY03	41	39	41	41	40	38	41	34	41	38	40	42	60	40	41	41	57	41	57	41	40	81	41	60		
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	91	88	91	-1	-1	93	85		
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	91	-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		
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		469	628	626	633	631	621	632	628	782	638	649	657	713	667	641	667	680	688	722	673	669	999	763	790	651	656
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	0	1	3	8	12	16	19	22	18	26	27	27	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	15	17	21	26	29	31	22	32	32	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	12	20	23	27	31	25	32	32		
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	19	24	10	19	37	20	28		
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	10	18	26	16	37	40	40	45		
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	11	16	12	24	20	27	11	29		
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	18	25	33	29	37	47	50		
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	15	24	23	33	37	34	36	33		
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	17	25	30	34	34	35	40		
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	15	20	23	28	24	30	30		
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	14	22	28	34	39	44	47	37		
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	16	22	26	32	47	25	51	42		
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	13	20	29	34	37	40	42		
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	12	16	19	24	26	29	29		
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	9	25	30	30	27	30	30	12		
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	18	77	153	255	332	364	454	466	514	480	524	504	
PCUF	CUFG	29	27	27	26	25	26	26	28	26	26	25	26	27	27	26	25	24	24	24	25	24	25	24	25	24	
PCUF	CUFK	28	27	25	24	25	26	28	26	25	27	26	26	28	27	24	27	27	26	25	26	26	27	25	27	24	
Total Co-Gen		57	54	52	50	50	52	54	54	51	51	52	52	53	55	55	50	53	54	53	51	51	50	49	50	52	
Total Gen		13891	13728	13399	13205	13001	12710	12545	12391	12344	12106	11902	11898	11834	11867	11667	11233	11217	11557	11873	12065	12287	12541	12661	12841	12926	
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		-29	-29	-29	-29	-28	-28	-28	-28	-29	-29	-29	-28	-28	-28	-30	-30	-30	-30	-29	-29	-29	-29	-29	-29	-29	
TIE-PLTG		26	55	48	75	77	58	38	96	63	52	42	80	18	16	48	85	3	12	85	72	19	17	9	-10		
Interconnection		-3	26	20	46	48	30	9	67	35	23	13	51	-11	-12	19	57	-25	-17	56	43	-9	-13	-20	-40		
System Total		13901	13709	13386	13166	12960	12687	12543	12331	12316	12090	11896	11854	11852	11886	11655	11183	11249	11581	11824	12029	12303	12561	12688	12888		

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		785	843	933	996	1001	1000	992	998	1001	996	1001	994	1001	1003	995	1003	999	1000	1001	976	1005	958	1000	1000	1015	924	966	949	889	876	873	873	870	854	885	882	878	871	853	848	711	729	719	819	861	846	856	859	
SRev CCGT-Gas		162	192	164	173	181	214	156	267	155	219	387	394	525	453	611	1090	1184	947	742	407	277	146	133	126	148	226	151	137	131	137	147	142	139	145	115	112	130	123	146	182	204	128	247	211	155	182	197	68	
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	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	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	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	0	0	0
Syncon		738	738	738	738	738	738	738	587	738	738	738	738	738	738	738	738	738	587	738	738	738	313	464	551	738	738	738	551	551	364	400	651	464	464	738	738	738	738	651	313	277	464	464	464	464	551	738		
Hydro		287	128	130	123	125	135	124	279	-26	118	107	99	43	89	115	104	76	269	76	125	129	224	309	195	147	142	147	232	257	326	377	147	300	269	180	119	160	154	224	407	287	181	187	189	149	181	218	96	
S.Reserve Total		1972	1901	1965	2030	2045	2087	2010	2131	1868	2071	2233	2225	2307	2283	2459	2935	3012	2803	2557	2246	2149	1641	1906	1872	2048	2030	2002	1869	1828	1703	1797	1813	1773	1732	1918	1851	1906	1886	1874	1750	1479	1502	1617	1683	1629	1673	1822	1761	