

Daily System Generation Summary on Sunday

Sunday, October 8, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,778 MW
Distillate	0 MW
Total TNB	1,778 MW
Total IPP	16,139 MW
Total Co-Gen	0 MW
Total System	21,919 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,534	4.39 %
Gas	57,674	16.31 %
Total TNB	73,208	20.71 %
ST-Coal	189,488	53.59 %
LSS	6,277	1.78 %
Gas	83,239	23.54 %
Total IPP	279,004	78.91 %
Co-Gen	768	0.22 %
Total Co-Gen	768	0.22 %
Total Generation	352,980	99.83 %
PLTG	104	0.03 %
HVDC	-699	-0.20 %
Interconnection	-595	-0.17 %
Net Energy	353,575	100.00 %

Maximum Demand Record

Date: 5/11/2023	19,716 MW
Date: 5/11/2023	416,902 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	21:00:00 Hour
Total Set On Bus	18,354 MW
TNB Generation	4,330 MW
IPP Generation	12,712 MW
Spinning Reserve	1,291 MW
Maximum Demand	17,059 MW
Net Energy	353,575 MWH
Load Factor	86.36 %

Fuel Cost

Total Cost:	82,266,337.13 RM
Cost per Unit	23.27 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,729
Hydro	240
Syncon	363
Thermal	177
Total	2,509

Time Weather Temperature

Afternoon	Hot	34
Morning	Sunny	29

Gas Usage

Station	(mmscfd)
GLGR	37
TJGS	161
Total TNB	198
CBPS	38
EMPP	237
NPRI	136
PCGP	77
PLPS	20
SKSP	50
SPGP	190
Total IPP	748
Total Gas	946
Total Gas Required	946

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	16134	15422	14810	14264	13847	13553	13537	13008	12359	12685	13184	13831	14024	14080	14561	15138	15375	15371	15072	15688	16945	17059	16877	16564

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, October 30, 2023 11:56:34 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	694	693	694	696	696	696	697	696	694	698	696	695	697	695	696	695	697	698	696	695	694	695	695	697	694	696	694	695	695	694	694																			
JMAH	U002	695	696	696	694	695	695	696	696	695	698	694	694	693	696	696	692	693	689	695	694	696	696	698	699	696	695	695	695	696	695	697	695																		
JMHE	U001	700	628	549	554	352	320	320	318	297	75	22	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																		
JMHE	U002	977	976	972	972	972	973	974	970	974	926	899	898	897	902	899	903	901	900	901	902	899	900	902	901	898	925	972	974	974	979	975	973																		
JMJG	U001	672	667	663	671	667	671	670	665	668	663	668	667	666	666	671	667	668	667	669	667	666	667	667	669	667	665	667	665	673	670	666	672	666																	
JMJG	U002	668	670	670	671	670	666	672	672	672	669	670	673	669	665	669	671	673	671	671	675	671	669	669	669	669	668	670	672	671	668	673	670	666																	
JMJG	U003	645	645	648	649	649	645	645	640	651	649	650	645	649	644	651	650	646	645	656	643	649	649	649	647	647	651	650	640	646	644	647	654	650																	
JMJG	U005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																	
PKLG	U003	142	141	148	206	283	286	279	279	273	273	274	269	277	275	268	244	236	156	146	145	147	146	147	145	145	147	147	146	146	147	146	147	146																	
PKLG	U004	277	275	277	274	275	274	275	273	277	276	275	274	264	240	242	210	204	230	257	278	272	275	278	277	270	275	276	272	272	275	276	273	275																	
TBIN	U001	687	690	691	689	690	688	689	688	688	690	689	691	685	689	689	649	620	651	671	691	691	690	691	689	685	689	687	686	690	688	690	693	690																	
TBIN	U002	689	686	688	688	689	689	688	688	689	690	688	683	687	688	687	656	627	638	669	689	689	689	689	691	688	690	689	687	687	689	692	692	688																	
TBIN	U003	686	689	687	688	686	687	687	685	687	687	687	686	686	687	686	651	620	662	669	684	687	686	687	685	686	688	688	687	688	687	687	688	688																	
TBIN	U004	982	982	982	983	983	983	983	982	976	931	904	903	904	902	900	903	903	902	902	904	903	903	904	902	910	954	984	982	982	984	983	984	983																	
Total ST-Coal		8514	8438	8365	8435	8307	8273	8275	8253	8247	7970	7842	7806	7796	7815	7788	7671	7533	7605	7546	7608	7611	7648	7674	7666	7656	7693	7798	7824	7809	7822	7826	7831	7826	7820	7820	7820	7820	7826	7810	7826	7816	7820	7827	7887	7972	7966	8007	8013	7982	
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	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	0	
CBPS	BLK2	211	212	208	210	212	207	209	205	212	212	212	211	212	201	210	206	202	206	212	207	211	212	213	212	204	212	210	212	209	212	206	212	212	208	210	210	211	215	211	260	360	361	359	357	232	212	211			
EMPP	BLK1	652	624	579	449	415	409	409	405	412	415	415	411	421	411	396	373	372	364	370	376	370	372	374	374	374	364	374	373	373	511	574	572	608	699	700	613	574	562	716	710	709	704	697	704	687	704	704	709		
EMPP	BLK2	657	628	579	446	412	408	409	407	411	421	413	411	423	409	396	373	372	365	370	376	370	373	371	373	372	364	373	373	373	513	583	567	615	700	700	612	573	573	715	710	707	705	699	698	691	705	704	709		
EMPP	BLK3	656	628	577	449	413	408	409	406	410	419	414	411	422	409	397	373	373	365	371	377	371	372	374	375	375	366	374	374	374	514	582	566	615	710	700	616	573	572	716	710	708	705	699	698	691	712	704	709		
GLGR	GT01	106	99	65	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
GLGR	GT02	106	97	65	93	94	94	93	94	94	94	94	94	94	94	93	94	94	94	95	95	96	95	96	95	95	95	96	96	96	95	95	96	96	95	96	95	96	95	96	95	96	104	102	103	102	102	91	65	65	
GLGR	ST1C	97	95	72	71	41	41	42	42	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
NPRI	BLK1	527	526	524	526	525	521	466	299	308	311	309	308	310	309	295	310	301	295	311	320	312	317	317	316	318	307	319	318	318	317	319	511	512	517	518	521	521	522	523	523	523	523	521	521	521	516	521	524	523	523
NPRI	BLK2	524	528	524	527	527	405	326	322	331	337	335	330	341	330	316	329	322	319	323	331	322	329	331	328	329	320	331	331	331	329	527	523	527	530	512	529	527	528	532	529	529	521	505	512	510	524	525	528		
PCGP	PGRG	603	603	597	600	599	592	493	432	402	400	403	401	403	401	378	400	389	380	386	401	390	401	401	400	402	378	402	400	600	598	602	600	602	604	593	604	599	603	613	602	601	599	601	594	589	601	603	601		
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
SKSP	BLK1	333	336	336	334	311	220	220	220	221	221	220	219	217	219	218	217	220	219	218	222	218	220	219	214	217	217	216	218	217	220	219	217	218	218	218	218	331	334	338	337	337	338	335	336	336	337	335	337	326	
SPGP	BLK1	718	718	718	717	717	717	719	718	651	652	712	718	719	718	691	359	358	360	359	359	359	501	600	598	600	600	600	686	715	691	697	695	690	702	704	708	707	711	711	715	713	717	719	719	720	717	717	720		
SPGP	BLK2	715	717	707	712	713	707	709	706	598	601	600	600	601	600	345	362	352	348	353	364	351	500	598	707	646	637	650	700	686	696	698	694	705	697	706	705	710	708	711	712	708	712	704	702	713	713	718			
TJGS	GT1A	127	125	125	126	128	126	129	123	126	127	126	128	125	126	118	127	127	123	128	129	125	126	127	126	123	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	
TJGS	GT1B	118	117	112	112	117	114	116	113	116	116	113	114	116	115	109	113	114	111	114	113	113	115	115	114	114	110	113	114	113	111	115	112	115	114	115	115	111	115	113	112	110	111	212	210	211	212	210	212	215	210
TJGS	ST1C	164	163	163	163	163	163	160	163																																										

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
HTRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	68	0	0
HTRG	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
HTRG	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
KNRG	HY01	36	24	24	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36	36
KNRG	HY02	37	24	24	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	37	37
KNRG	HY03	37	20	20	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	38	38	38	38	38
KNYR	HY01	95	95	95	95	95	95	95	94	95	94	95	95	-1	-1	-1	95	95	95	95	94	94	95	94	95
KNYR	HY02	99	99	99	99	98	99	99	99	99	99	99	99	62	61	62	62	62	99	99	98	99	98	99	98
KNYR	HY03	98	98	98	97	98	97	98	98	98	97	97	95	52	49	50	47	51	98	98	98	98	99	98	99
KNYR	HY04	99	99	99	98	99	94	94	95	100	100	100	98	99	99	90	89	57	58	54	69	59	65	60	60
LPIA	HY01	16	16	16	16	16	16	16	16	16	16	16	16	15	15	15	15	15	15	15	15	15	15	16	17
LPIA	HY02	17	17	16	17	16	16	17	16	16	17	16	16	17	17	17	17	17	17	16	16	16	16	17	17
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1
PGAU	HY04	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21
SYPS	HY01	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	23	23	22
SYPS	HY03	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25
SYPS	HY04	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25
TMGR	HY01	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	78	78	78
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	84	84	84
TMGR	HY03	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	79	79
TMGR	HY04	41	42	41	41	41	41	61	47	81	78	81	70	39	78	43	40	40	53	40	50	41	41	42	39
UJLI	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4
UPIA	HY02	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Total Hydro		794	641	609	608	608	556	555	557	583	570	603	618	601	590	547	410	339	338	331	364	521	537	523	522
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	1	3	6	11	14	17	19	21	23	25	25	26
BKLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	2	6	9	15	18	20	23	21	19	16	17	29
BSLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	5	6	12	17	21	23	19	32	27	33	34	24
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	7	13	19	25	32	34	36	38	42	41	43
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	6	11	17	22	17	30	34	32	41	37	42	40
GELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	2	3	7	11	12	13	7	10	21	19	26	16	20
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	6	8	14	23	29	34	40	37	31	45	21	21
JELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	1	3	6	14	17	21	24	16	18	12	14	25	15
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	8	14	20	21	21	21	21	21	46	50	50	46
KDLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	12	16	32	45	56	65	51	80	61	90	77	72	89
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	6	9	17	22	26	27	32	35	38	39	42	39
KMLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	1	4	6	10	15	19	23	15	15	30	23	12	4
KNLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	2	13	26	40	52	66	77	87	94	100	100	100	60
KRLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	1	4	7	12	16	20	24	24	25	23	30	27	30
MALS	LSS2	0	0	0	0	0	0	0	0	0	0	0	6	6	20	7	13	13	21	29	10	21	30	26	24
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	3	7	14	21	26	31	31	30	23	49	43	38	47
MNLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	8	20	44	61	69	76	74	62	52	71	54	61	92
PKLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	15	26	41	56	67	56	45	88	71	55	104	54	70

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	
SNLS	LSS4	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	
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	
STLS	LSS2	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	LSS2	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	
ESTL	ESTL	14	13	8	13	17	15	15	14	13	15	20	21	20	19	19	17	16	8	8	10	18	16	19	22	24
KHTC	BLK1	-17	-20	-20	-17	-18	-18	-18	-14	-16	-14	-16	-15	-14	-14	-12	-14	-15	-17	-19	-22	-25	-26	-27	-29	-31
PCUF	CUFG	4	8	21	21	20	20	20	21	22	22	22	23	22	23	21	23	22	22	22	21	21	21	22	21	21
PCUF	CUFK	17	16	14	15	14	16	15	14	15	14	15	14	15	17	15	16	16	16	15	17	14	14	14	15	14
PFTZ	PFTZ	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Total Co-Gen		24	23	29	38	39	39	38	41	40	43	49	48	48	51	47	50	46	37	34	36	37	32	34	38	36
Total Gen		16097	15769	15405	15103	14792	14451	14228	13956	13817	13563	13514	13481	13501	13464	12988	12465	12329	12463	12633	12915	13132	13537	13769	13970	14008
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		-30	-29	-29	-31	-28	-29	-28	-28	-29	-30	-30	-30	-28	-29	-28	-31	-28	-31	-28	-30	-31	-30	-30	-31	-30
TIE-PLTG		-7	-5	11	2	10	13	-8	12	-1	-8	-9	5	-8	-22	9	-31	0	-15	-21	-32	-22	-36	-34	21	12
Interconnection		-37	-33	-17	-30	-18	-15	-36	-17	-30	-37	-39	-25	-36	-51	-20	-59	-30	-43	-52	-60	-52	-67	-62	-7	-16
System Total		16134	15802	15422	15133	14810	14466	14264	13973	13847	13600	13553	13506	13537	13515	13008	12524	12359	12506	12685	12975	13184	13604	13831	13977	14024
SRev ST-Coal		142	218	156	146	359	148	146	168	174	271	288	323	332	316	313	430	516	435	393	325	316	307	282	290	298
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
SRev CCGT-Gas		1029	1127	1392	1772	1801	2056	2279	2534	2692	2659	2619	2630	2583	2631	3033	3345	3385	3438	3381	3309	3380	3049	2848	2750	2803
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
SRev Co-Gen		0	-2	0	-2	0	0	2	0	0	0	0	0	0	-1	0	1	1	0	0	0	0	0	-1	0	0
Syncon		464	464	464	464	464	464	464	464	464	313	464	464	464	565	565	565	565	378	277	277	277	277	277	277	277
Hydro		390	231	176	177	177	149	150	148	122	135	102	238	104	115	158	194	265	266	273	241	185	169	183	184	317
S.Reserve Total		2025	2038	2188	2557	2801	2817	3041	3314	3452	3529	3473	3504	3483	3525	3968	4535	4732	4704	4612	4253	4158	3802	3590	3501	3694