

Daily System Generation Summary on Sunday

Sunday, July 9, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,902 MW
Distillate	0 MW
Total TNB	1,902 MW
Total IPP	17,845 MW
Total Co-Gen	0 MW
Total System	23,749 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,287	3.74 %
Gas	43,403	13.22 %
Total TNB	55,690	16.96 %
ST-Coal	186,017	56.65 %
LSS	5,903	1.80 %
Gas	80,622	24.55 %
Total IPP	272,542	83.00 %
Co-Gen	147	0.04 %
Total Co-Gen	147	0.04 %
Total Generation	328,379	100.00 %
PLTG	6	0.00 %
Interconnection	6	0.00 %
Net Energy	328,373	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:	20:30:00 Hour
Total Set On Bus	17,511 MW
TNB Generation	2,661 MW
IPP Generation	13,364 MW
Spinning Reserve	1,479 MW
Maximum Demand	16,026 MW
Net Energy	328,373 MWH
Load Factor	85.38 %

Fuel Cost

Total Cost:	75,944,223.32 RM
Cost per Unit	23.11 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,043
Hydro	180
Syncon	792
Thermal	560
Total	2,575

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	34
TJGS	45
Total TNB	79
CBPS	43
EMPP	267
NPRI	129
PCGP	81
SPGP	205
Total IPP	725
Total Gas	804

Total Gas Required 804

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	14874	14203	13626	13223	12856	12580	12603	12347	11807	12257	12782	12885	13038	13133	13375	13705	13871	13827	13752	14199	15807	15983	15738	15446

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, July 10, 2023 9:15:44 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	705	703	705	706	705	709	706	702	703	706	702	709	705	708	706	705	706	706	704	705	703	704	705	706	705	706	705	703	704	705	706	702	709	711	711	479	503												
JMAH	U002	705	702	706	704	707	704	706	706	704	707	705	703	702	705	704	702	702	705	705	705	703	702	707	704	701	704	604	605	594	297	305	304	304	301	304	496	648	706	705	704	698	705	708	700	700				
JMHE	U001	974	899	900	897	796	799	801	797	800	738	701	700	700	702	704	700	701	699	698	703	802	800	799	797	803	799	800	799	799	857	874	881	877	881	881	880	885	975	975	975	978	975	981	977	975				
JMHE	U002	499	498	499	498	499	500	498	501	500	501	500	501	500	503	501	500	503	499	500	505	500	500	502	499	502	498	500	499	502	500	499	501	498	499	501	500	499	502	504	502	501	500	500	499	500	497			
JMJG	U002	675	680	682	676	683	678	682	677	678	681	680	686	687	678	682	677	678	682	682	680	681	678	590	548	549	550	551	541	554	551	549	554	542	552	538	537	528	536	534	541	542	541	540	544	537	541	535	542	
JMJG	U003	679	678	673	678	674	644	609	671	681	680	675	679	677	670	672	672	684	671	668	668	671	671	672	672	675	672	672	671	673	672	670	672	676	672	581	607	595	609	684	685	683	679	683	688	685	679	689	683	
JMJG	U004	977	952	900	900	876	819	805	803	804	804	804	804	804	805	805	801	803	808	804	805	805	804	803	805	804	806	806	804	804	804	806	819	872	881	877	883	881	881	909	967	978	975	980	977	978	976	983		
JMJG	U005	852	901	898	900	836	803	799	799	804	797	805	799	796	805	801	799	800	798	803	801	799	804	801	800	800	798	803	803	799	800	801	804	834	879	882	881	882	881	881	933	980	979	981	983	979	981	983	982	
PKLG	U003	160	163	153	149	150	150	152	150	151	150	151	151	150	151	150	151	151	150	151	150	151	151	150	150	151	151	150	150	151	150	150	151	150	150	150	151	199	274	278	185	157	155	156	156	154				
PKLG	U005	370	276	267	268	269	267	267	269	269	269	268	269	271	269	269	269	269	269	269	269	269	269	269	271	268	271	268	269	268	268	269	268	269	268	269	268	269	271	303	398	466	392	300	269	268	268	269		
PKLG	U006	449	415	322	275	269	267	269	268	268	269	268	269	269	268	271	269	269	269	269	269	269	269	269	268	267	268	269	269	268	268	269	270	270	268	268	269	269	269	311	398	442	442	442	436	355	270	267		
TBIN	U001	535	260	209	211	210	211	211	209	211	209	210	209	211	210	210	209	209	209	212	211	210	211	209	211	211	210	210	210	210	210	211	212	210	211	209	210	210	281	355	596	708	703	695	678	493	243	209		
TBIN	U003	449	449	385	221	212	209	210	210	210	212	211	210	210	211	211	211	210	210	210	210	210	210	210	210	210	210	210	210	210	210	211	212	210	211	209	211	210	296	377	449	448	449	503	661	700	678	537		
TBIN	U004	979	947	903	903	866	805	801	803	803	803	804	804	805	802	803	804	802	801	802	803	803	803	803	803	803	801	802	802	804	802	801	803	821	885	881	884	882	883	884	929	982	983	981	980	976	981	980	984	
Total ST-Coal		9008	8523	8202	7986	7752	7565	7516	7565	7590	7523	7488	7486	7491	7483	7492	7478	7487	7469	7480	7482	7582	7578	7491	7436	7455	7444	7452	7435	7452	7241	7242	7240	6806	6947	6860	6876	6866	6888	7501	8270	9159	9389	9213	9157	9244	9031	8434	8285	
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	0	
CBPS	BLK2	221	221	221	221	222	222	221	222	221	222	221	222	221	222	222	222	222	221	221	221	220	222	222	222	222	221	221	220	221	221	358	343	359	359	359	360	325	353	298	298	338	333	296	360	359	332			
EMPP	BLK1	689	706	711	701	601	551	418	399	468	465	422	412	424	416	398	402	424	459	454	496	506	475	471	471	444	479	467	538	544	660	698	709	713	691	711	709	716	720	710	710	689	690	708	701	674	721	709	700	
EMPP	BLK2	690	707	708	697	711	709	710	681	466	465	422	410	427	414	399	401	424	464	454	496	505	473	469	477	444	483	471	548	546	666	702	710	711	691	711	709	715	720	710	711	689	690	709	701	675	722	711	707	
EMPP	BLK3	696	709	709	695	711	710	711	681	465	466	422	411	428	414	398	401	423	461	453	495	504	473	469	477	444	488	471	543	547	665	701	709	712	691	711	709	716	719	711	704	687	689	711	704	667	721	710	707	
GLGR	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	50	88	108	107	108	108	107	107		
GLGR	GT02	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	95	94	94	95	94	94	95	94	95	94	93	94	94	94	94	93	94	94	94	94	108	108	95	108	106	107	106	107	106	106		
GLGR	ST1C	40	41	41	40	41	41	41	41	41	41	40	40	41	41	41	40	41	41	41	40	41	43	41	41	41	42	41	41	41	41	41	42	42	42	42	42	42	42	47	46	39	95	96	94	97	96	96	96	
NPRI	BLK1	509	333	359	328	332	336	333	320	332	334	333	333	334	335	320	322	331	335	332	334	334	332	332	335	337	335	335	335	332	335	334	353	529	517	526	527	529	529	526	526	513	507	524	525	494	531	527	526	
NPRI	BLK2	323	328	347	321	329	332	327	316	328	329	327	329	330	333	316	316	329	326	329	330	328	328	329	332	335	335	331	331	327	329	330	346	528	449	523	525	532	534	525	525	512	505	472	441	507	535	525	523	
PCGP	PGRG	404	600	602	595	604	605	606	580	600	600	602	603	603	608	558	395	400	400	403	406	401	403	400	404	409	402	403	402	402	600	604	603	609	595	603	605	613	614	603	603	594	596	600	577	614	602	602		
SPGP	BLK1	718	719	717	715	713	717	715	717	715	716	715	716	717	716	718	685	714	718	718	714	710	709	712	704	705	715	715	717	717	718	719	717	720	717	718	719	718	720	723	716	719	718	718	722	725	717	719		
SPGP	BLK2	717	725	726	721	726	725	724	710	726	725	727	725	726	726	707	714	362	455	456	455	454	454	459	601	719	714	720	720	721	720	717	717	717	716	718	718	719	717	719	719	719	717	719	717	719	719	720		
TJGS	GT1A	137	138	140	134	135	140	137	131	139	139	135	138	135	138	130	132	135	135	136	138	139	137	136	135	135	135	134	136	135	139	137	139	138	135	138	226	232	231	232	232	232	232	232	232	232	227	232	232	233
TJGS	ST1C	78	78	78	78	78	78	79	78	78	77	78	78	77	77	77	78	78	78	78	78	78	78	78	78	78	78	78	78	79	79	79	79	79	79	79	103	120	120	121	121	121	121	121	121	121	117			

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	
PGAU	HY01	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	
PGAU	HY02	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
SIHY	HY01	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
SIHY	HY02	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
SIHY	HY03	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
SYPS	HY01	16	16	16	16	16	16	16	15	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
SYPS	HY03	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
SYPS	HY04	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
TMGR	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	
TMGR	HY03	41	40	41	41	41	42	41	39	41	43	41	41	41	38	39	41	41	41	41	41	41	41	41	41	
TMGR	HY04	-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	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	
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	
UPIA	HY02	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Total Hydro		549	549	550	548	549	568	567	539	546	549	548	549	550	493	276	294	315	414	429	410	411	410	410	408	409
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	0	0	0	0	0	0	0	0	0	0	
BKLS	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	
BSLS	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	
CHLS	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	
GBLS	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	
GELS	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	
GNLS	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	
JELS	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	
JSLS	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	
KDLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	
KMLS	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	
KNLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KRLS	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	
MALS	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	
MCLS	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	
MNLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PKLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	13	14	14	14	16	17	20	23	27	24	26	25	22	11	12	20	19	15	16	22	14	14	13	18	
KHTC	BLK1	-13	-15	-13	-13	-15	-13	-10	-14	-14	-15	-11	-11	-12	-13	-10	-9	-14	-16	-11	-17	-17	-20	-18	-21	
PCUF	CUFG	3	3	1	2	2	2	3	2	3	1	3	4	3	5	2	3	2	2	2	2	2	4	3	2	
PCUF	CUFK	3	4	1	2	2	2	3	2	4	0	2	4	2	5	3	3	3	1	4	3	2	4	3	3	
PFTZ	PFTZ	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Total Co-Gen		10	10	7	9	9	12	20	17	24	14	24	26	19	12	11	21	14	9	12	9	14	2	8	1	
Total Gen		14883	14481	14212	13883	13607	13405	13219	13091	12833	12758	12600	12570	12617	12580	12371	12022	11803	12093	12279	12517	12815	12834	12855	13099	

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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