

Daily System Generation Summary on Saturday

Saturday, September 9, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,963 MW
Distillate	0 MW
Total TNB	1,963 MW
Total IPP	17,841 MW
Total Co-Gen	0 MW
Total System	23,806 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,549	4.39 %
Gas	38,116	10.76 %
Total TNB	53,665	15.15 %
ST-Coal	215,815	60.91 %
LSS	4,761	1.34 %
Gas	78,735	22.22 %
Total IPP	299,311	84.48 %
Co-Gen	526	0.15 %
Total Co-Gen	526	0.15 %
Total Generation	353,502	99.77 %
PLTG	-102	-0.03 %
HVDC	-701	-0.20 %
Interconnection	-803	-0.23 %
Net Energy	354,305	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:	20:00:00 Hour
Total Set On Bus	17,603 MW
TNB Generation	2,831 MW
IPP Generation	13,357 MW
Spinning Reserve	1,383 MW
Maximum Demand	16,261 MW
Net Energy	354,305 MWH
Load Factor	90.79 %

Fuel Cost

Total Cost:	72,265,115.00 RM
Cost per Unit	20.41 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	896
Hydro	245
Syncon	807
Thermal	259
Total	2,207

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	42
Total TNB	72
CBPS	41
EMPP	262
NPRI	125
PCGP	83
SPGP	180
Total IPP	690
Total Gas	761
Total Gas Required	761

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	15620	14942	14335	13897	13558	13314	13379	13126	12972	13986	14703	15189	15234	14783	15316	15525	15698	15357	15017	15282	16261	16090	15573	15226

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, September 12, 2023 10:00:35 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Saturday

		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		696	695	694	696	694	695	694	696	694	695	696	695	694	696	695	697	695	696	694	695	694	696	695	696	696	696																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
JMAH	U002		694	692	694	694	693	695	693	695	696	696	695	692	690	694	696	695	694	694	696	696	694	694	692	695	694	696	692																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
JMHE	U001		895	902	900	900	900	900	899	900	900	900	850	852	850	851	848	852	852	855	844	847	863	902	902	898	900	896	896	899	901	898	900																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
JMHE	U002		971	669	497	502	501	500	499	500	500	500	501	499	501	501	660	799	852	852	844	846	894	953	948	948	949	949	945	949	947	949	950																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
JMJG	U001		672	679	676	679	680	680	677	680	673	675	685	677	682	677	678	676	677	675	680	673	668	679	676	678	685	678	677	679	678	678	671	675	676																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
JMJG	U002		670	667	667	672	672	668	671	665	675	670	667	673	670	666	672	670	668	669	670	672	675	678	671	671	668	667	671	673	672	669	671	663	666	673	673	667	668	671	670	671	672	667	673	667	668	668	671																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
JMJG	U003		593	602	587	600	593	598	599	596	591	597	593	598	590	596	596	597	601	597	598	596	598	596	601	593	597	598	590	593	598	596	602	601	601	594	598	600	596	593	601	598	598	597	596	593	597	601	612																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
JMJG	U004		980	979	979	977	931	931	931	929	933	927	894	858	852	854	855	857	852	854	850	852	860	916	948	948	949	949	954	952	952	950	952	950	951	978	980	978	979	981	980	975	979	973	980	983	976	977	978	977																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
PKLG	U003		279	278	278	280	278	278	277	280	280	284	278	280	279	280	280	279	279	280	280	280	279	282	278	279	278	276	278	279	276	276	278	280	280	281	277	277	275	278	275	279	279	276	278	279	280	280	278																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
PKLG	U005		462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
TBIN	U001		689	686	688	690	689	689	689	688	689	688	689	688	689	688	689	688	689	689	689	688	689	689	689	688	689	688	688	689	688	688	689	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	68

Daily MW Generation on Saturday

		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	HY04		56	56	98	98	96	93	60	59	60	59	75	98	98	88	60	54	54	84	98	98	98	98	98	98	98	98	98	95	94	92	93	98	98	95	98	98	92	94	92	94	92	98	98					
LPIA	HY01		21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3						
PGAU	HY01		18	25	25	25	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1							
PGAU	HY02		19	25	25	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	-1	-1								
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	0	0	0	0	0	0	0	20	20	20	20	0	0	0	0									
SIHY	HY01		51	31	31	31	31	0	0	0	0	0	0	0	0	0	0	0	0	51	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
SIHY	HY02		50	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	50	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
SIHY	HY03		50	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
SYPS	HY01		22	23	23	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
SYPS	HY03		24	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
TMGR	HY01		80	80	80	80	80	81	81	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1						
TMGR	HY02		85	86	86	86	86	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
TMGR	HY03		78	81	81	81	81	81	82	81	82	66	60	83	83	66	40	39	40	41	62	41	41	42	41	46	41	40	41	42	41	66	40	83	82	46	40	40	40	40	64	54	41	41	41	38	39	40	43	40
TMGR	HY04		37	41	42	49	41	44	42	41	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	82	82	-1	-1	-1	-1	-1	33	81	33	33	30	31	0	0	0				
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	88	89	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1						
UPIA	HY01		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4						
UPIA	HY02		4	4	4	4	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3					
Total Hydro			1070	1012	1060	1040	1003	865	747	744	705	546	547	593	593	566	510	373	496	573	588	598	598	540	622	626	512	512	531	532	530	575	549	572	844	628	413	413	497	560	531	772	895	752	695	626	677	645	501	478
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	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	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	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	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	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	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	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
JSLS	LSS1		0	1	1	1	0	0	0	0	0	1	1	0	0	1	0	3	7	14	16	22	27	35	30	31	34	36	30	40	50	50	22	18	15	8	6	5	5	1	1	1	1	1	1	1	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	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	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	0	0	0	0	0	0	0	0</																

Daily MW Generation on Saturday

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																									
PCUF	CUFG	17	16	17	18	19	18	20	20	20	20	20	21	21	20	21	20	21	21	21	20	21	20	20	20																									
PCUF	CUFK	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16																										
PFTZ	PFTZ	1	1	0	1	1	1	2	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4	4																										
Total Co-Gen		17	12	18	10	7	13	10	20	21	24	28	26	24	30	28	28	27	22	23	21	18	10	18	17	26	25	24	23	18	4	14	17	22	27	31	26	31	37	27	26	32	27	28	27	26	23	21	20	
Total Gen		15619	15245	14921	14636	14295	14067	13873	13662	13534	13389	13274	13223	13332	13261	13113	12763	12930	13471	13970	14267	14683	14898	15158	15339	15174	14814	14706	15093	15324	15450	15475	15498	15641	15544	15323	15118	14996	15047	15249	16137	16220	16100	16063	15831	15551	15352	15196	14961	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
TIE-HVDC		-30	-29	-28	-29	-28	-30	-30	-29	-28	-30	-30	-30	-28	-28	-31	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-31	-30	-30	-30	-29	-29	-29	-29	-28	-31	-28	-31	-31	-28					
TIE-PLTG		29	4	7	-11	-12	-8	6	7	4	-9	-10	-14	-16	-7	15	-10	-13	14	12	-4	9	-22	-3	8	-32	-36	-48	-15	36	44	-21	-38	-27	-41	-4	-4	8	19	-4	-1	-10	-14	4	12	9	-18	1	-3	
Interconnection		-1	-24	-21	-39	-40	-38	-24	-22	-24	-39	-40	-44	-47	-35	-13	-41	-42	-15	-16	-32	-20	-50	-31	-20	-60	-65	-77	-44	8	16	-50	-69	-57	-71	-34	-33	-21	-10	-33	-29	-41	-42	-27	-16	-22	-49	-30	-31	
System Total		15620	15269	14942	14675	14335	14105	13897	13684	13558	13428	13314	13267	13379	13296	13126	12804	12972	13486	13986	14299	14703	14948	15189	15359	15234	14879	14783	15137	15316	15434	15525	15567	15698	15615	15357	15151	15017	15057	15282	16166	16261	16142	16090	15847	15573	15401	15226	14992	
SRev ST-Coal		175	237	252	226	331	330	335	336	335	333	431	434	444	442	434	437	434	428	445	434	428	319	247	247	248	252	245	250	256	252	238	242	235	171	161	163	171	160	163	167	157	165	157	166	204	257	252	258	
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			
SRev CCGT-Gas		1122	1035	1177	1465	1658	1755	1822	2040	2131	2124	2129	2149	2009	2227	2465	2745	2770	2371	1958	1774	1549	1596	1549	1443	1477	1007	1161	822	597	463	425	338	475	455	902	1038	1156	1091	829	173	229	189	178	331	372	257	179	202	
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 Co-Gen		-1	0	1	-1	0	0	0	0	-1	0	-2	1	0	1	0	0	1	0	1	0	0	2	0	1	1	0	-1	-2	-3	-1	3	-2	2	1	0	0	0	-5	0	-1	1	-1	4	1	0	-1	-1	-1	
Syncon		500	500	500	651	802	802	802	802	890	890	890	890	890	890	890	890	739	739	890	890	890	890	890	890	890	890	890	890	890	739	739	890	525	802	890	890	890	890	978	615	615	615	802	890	552	552	739	890	
Hydro		485	516	468	337	223	161	192	195	146	178	137	91	91	118	174	263	391	314	148	188	188	146	151	147	174	174	155	154	156	262	288	114	294	146	223	223	139	163	104	504	381	524	481	312	471	416	286	158	
S.Reserve Total		2281	2288	2398	2678	3014	3048	3151	3373	3501	3525	3585	3565	3434	3678	3963	4335	4335	3852	3442	3286	3055	2953	2837	2728	2790	2323	2450	2114	1896	1715	1693	1582	1531	1575	2176	2314	2356	2299	2074	1458	1383	1492	1622	1700	1599	1481	1455	1507	