

Daily System Generation Summary on Saturday

Saturday, March 25, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,527 MW
Distillate	0 MW
Total TNB	1,527 MW
Total IPP	17,895 MW
Total Co-Gen	0 MW
Total System	23,130 MW

Generation Mix

Type	MWh	Percentage
Hydro	10,837	3.07 %
Gas	60,241	17.07 %
Total TNB	71,078	20.14 %
ST-Coal	198,511	56.24 %
LSS	5,705	1.62 %
Gas	77,747	22.03 %
Total IPP	281,963	79.89 %
Co-Gen	804	0.23 %
Total Co-Gen	804	0.23 %
Total Generation	353,845	100.25 %
PLTG	168	0.05 %
HVDC	728	0.21 %
Interconnection	896	0.25 %
Net Energy	352,949	100.00 %

Maximum Demand Record

Date: 5/24/2022	19,183 MW
Date: 5/24/2022	398,523 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	00:00:00 Hour
Total Set On Bus	18,045 MW
TNB Generation	2,891 MW
IPP Generation	13,011 MW
Spinning Reserve	2,107 MW
Maximum Demand	15,876 MW
Net Energy	352,949 MWH
Load Factor	92.63 %

Fuel Cost

Total Cost:	96,219,717.53 RM
Cost per Unit	27.19 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,218
Hydro	321
Syncon	366
Thermal	489
Total	2,394

Time	Weather	Temperature
Afternoon	Rainy	30
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	34
TJGS	158
Total TNB	192
EMPP	290
KLPP	55
NPRI	67
PCGP	88
SPGP	209
Total IPP	710
Total Gas	901
Total Gas Required	901

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	15876	15243	14602	14243	13862	13915	13761	13345	12821	13895	14618	14981	14878	14684	15065	15289	15172	15010	15027	15157	15707	15673	15346	15006

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 4, 2023 10:48:24 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		704	708	548	492	358	305	215	216	215	215	214	214	215	213	215	272	478	638	706	705	705	705	705	707	705	705	705	707	705	705	604	552	334	253	208	160	0	0	0	0	0	0	0	0	0	0	0	0	0
JMHE	U001		976	977	980	965	901	899	902	881	848	844	852	847	852	853	846	851	853	850	852	852	955	950	947	949	948	948	950	949	948	951	978	978	981	979	982	980	970	976	975	973	976	973	975	977	974	978	979	977	
JMHE	U002		980	982	984	970	900	901	901	881	843	843	850	848	851	847	845	852	850	850	851	853	928	950	949	949	946	952	952	950	946	950	979	979	981	981	982	982	984	981	981	980	981	981	979	978	980	981	981	975	
JMJG	U001		679	673	677	672	680	675	677	677	677	673	678	679	678	672	679	678	675	677	682	680	679	675	675	680	677	680	678	675	676	682	677	679	673	681	682	678	680	673	679	677	677	678	678	675	679	673	677		
JMJG	U002		679	677	678	681	679	678	682	677	682	672	683	680	685	684	682	682	673	682	679	680	678	678	681	694	680	685	682	682	678	683	675	679	678	685	680	674	681	682	680	682	678	680	678	679	673	677	683	683	
JMJG	U003		678	674	685	676	671	669	668	676	677	668	676	679	673	673	687	676	675	668	679	677	677	628	610	639	613	640	612	640	639	606	620	612	621	610	621	613	630	670	667	672	662	679	670	669	669	669	672	670	
JMJG	U004		978	979	976	976	920	906	906	902	857	857	859	859	858	860	857	858	857	859	858	856	886	942	954	952	952	952	952	954	953	952	980	977	975	980	979	973	976	977	973	977	976	972	976	974	976	975	974	973	
JMJG	U005		974	977	980	955	909	897	900	887	849	848	850	849	852	852	851	848	851	848	851	851	921	950	950	952	952	948	950	950	951	979	980	982	980	979	981	983	982	982	982	982	978	982	977	983	979	981	977		
PKLG	U003		277	278	228	167	150	147	149	147	147	149	244	281	210	159	150	150	151	151	150	151	150	151	150	151	151	151	151	151	151	151	152	151	151	259	290	286	284	281	282	278	278	278	278	276	278	277	278		
PKLG	U004		278	277	240	171	145	146	145	145	147	146	217	252	195	143	145	146	148	149	147	148	151	147	148	148	150	148																							

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	
HTRG	HY04	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
KNRG	HY03	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	
KNYR	HY01	60	60	59	59	60	61	61	60	61	60	59	60	60	59	100	-1	-1	-1	-1	-1	-1	100	99	99	100
KNYR	HY02	100	100	58	58	62	62	62	61	62	62	60	61	62	61	60	100	100	100	100	100	100	99	99	99	100
KNYR	HY03	54	55	54	54	55	55	55	56	56	54	54	55	55	55	55	55	55	55	55	55	55	94	95	96	97
LPIA	HY01	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	15	16	16	16	16	
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	
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	18	21	21	21	-1	
PGAU	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	
TMGR	HY02	32	31	35	34	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	88	89	0
TMGR	HY04	39	38	41	42	72	57	77	41	85	83	39	34	43	40	36	78	63	41	50	41	41	42	41	41	78
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	89	91	89	87
UJLI	HY02	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UPIA	HY01	5	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	5	5	5	5	5
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	4	4	5	5	5	5
Total Hydro		380	380	354	354	392	343	363	325	374	372	323	318	329	326	320	487	363	394	336	280	319	320	319	319	320
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	4	5	5	6	11	15	25	25	18	28
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	8	11	16	18	23	25	23	26	31
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	9	17	21	17	30	32	25	30	21
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	9	17	9	7	4	2	6	17	13	19
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	7	17	24	29	18	21	33	28	16
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	9	10	7	5	9	7	18	14	21
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	15	17	22	36	16	41	44	46	49
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	9	17	23	26	22	30	31	28	24
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	14	8	14	20	28	26	36	25	51
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	19	20	42	55	62	75	67	89	88	68
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	16	13	19	27	31	41	19	27	33
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	5	14	18	21	15	28	29	26	30
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	10	68	74	84	94	100	86	39	100
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	18	21	26	29	30	24	30	30
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	13	27	28	36	51	48	48	50
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	37	33	83	75	54	79	82	84	91
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	12	33	52	37	26	101	80	101	107	111
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	1	2	4	4	6	18	30	18
SSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	7	23	28	29	22	39	36	24	33
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	4	7	13	16	9	14	19	13	15
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	11	8	25	30	30	30	30	30	30	30
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	84	174	259	491	545	562	691	793	830	769
ESTL	ESTL	20	19	22	24	23	14	7	8	16	18	11	19	20	20	22	20	25	24	24	17	22	22	21	19	21

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		
KHTC	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	4	4	4	5	2	4	4	4	3	1	4	4	5	3	1	2	2	5	3	4	2	4	4	3	4	4	4	3	4	4	4	2	4	5	4	4	3	3	4	2	4	3	4	3	3	3	3	4	2
PCUF	CUFK	7	7	8	7	6	7	7	8	6	4	8	6	8	8	6	5	6	7	6	6	6	7	7	7	6	8	7	7	6	7	6	7	6	8	5	8	7	7	6	6	7	8	8	5	7	8	8	6	
PFTZ	PFTZ	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	7	7	7	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	
Total Co-Gen		36	35	39	41	36	30	23	25	30	28	28	34	38	41	38	32	35	38	37	34	36	36	33	33	35	36	37	34	21	25	32	24	33	32	35	33	37	37	39	39	34	38	36	30	24				
Total Gen		15938	15702	15267	15005	14639	14443	14269	14098	13851	13865	13969	13771	13751	13589	13439	12861	12898	13463	13944	14369	14679	14975	14981	15002	14950	14762	14718	14896	15174	15279	15359	15231	15196	15283	15069	15006	15042	14986	15198	15426	15674	15730	15677	15638	15373	15256	15074	14846	
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	0	0	0	
TIE-HVDC		30	30	31	31	30	30	29	29	31	31	30	30	29	29	30	30	31	31	31	31	30	30	30	30	31	31	30	30	31	31	30	30	31	31	30	30	29	29	31	31	31	31	31	31	31	31	31	31	31
TIE-PLTG		32	66	-7	-31	6	14	-3	11	-42	38	24	48	-39	43	64	28	46	17	19	44	31	-22	-29	-17	41	-9	4	27	78	46	40	23	-7	-25	29	-48	-14	-42	12	-40	-64	-33	-27	-38	-4	-9	37	17	
Interconnection		62	96	24	0	37	44	26	40	-11	69	54	77	-10	72	94	58	77	47	49	75	61	8	0	13	72	22	34	58	109	77	70	53	24	5	59	-18	15	-13	41	-10	-33	-1	4	-7	27	21	68	48	
System Total		15876	15606	15243	15005	14602	14399	14243	14058	13862	13796	13915	13694	13761	13517	13345	12803	12821	13416	13895	14294	14618	14967	14981	14989	14878	14740	14684	14838	15065	15202	15289	15178	15172	15278	15010	15024	15027	14999	15157	15436	15707	15731	15673	15645	15346	15235	15006	14798	
S.Rev ST-Coal		286	282	384	443	677	713	699	706	694	723	690	669	697	704	688	699	707	704	799	782	621	538	548	504	539	512	537	508	526	547	392	401	385	473	453	442	416	370	392	308	328	320	323	323	360	324	311	319	
S.Rev CCGT-Gas		922	1161	1347	608	589	634	598	599	753	704	767	1024	945	900	1124	1876	1801	1412	1273	1182	1352	1187	1295	1415	1475	1687	1805	1593	1244	1071	1183	1274	1144	837	1086	1115	1090	1079	1069	785	596	768	843	885	1107	1240	1198	1114	
S.Rev 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	
S.Rev 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	
S.Rev 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	
S.Rev 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	
Syncon		626	439	313	313	313	313	313	313	313	313	313	313	313	313	313	313	414	414	414	414	414	414	414	414	414	414	439	439	439	439	439	439	439	439	439	439	439	439	439	439	439	126	126	126	126	277	277	403	
Hydro		273	274	301	301	263	225	205	243	194	196	245	250	239	242	248	81	179	273	206	212	173	172	173	173	173	172	242	218	219	222	221	180	215	199	177	221	175	317	324	357	356	271	454	430	421	429	299	377	458
S.Reserve Total		2107	2156	2345	1665	1842	1972	1902	1948	2041	2023	2102	2343	2281	2336	2460	3056	3188	2890	2779	2677	2647	2398	2517	2593	2687	2942	3086	2846	2518	2365	2281	2416	2254	2013	2286	2258	2349	2299	2344	1975	1729	1676	1730	1763	2030	2148	2171	2389	