

Daily System Generation Summary on Saturday

Saturday, April 23, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,038 MW
Distillate	0 MW
Total TNB	2,038 MW
Total IPP	20,056 MW
Total Co-Gen	0 MW
Total System	26,373 MW

Generation Mix

Type	MWh	Percentage
Hydro	9,499	2.62 %
Gas	38,179	10.55 %
Total TNB	47,678	13.17 %
ST-Coal	229,146	63.30 %
LSS	4,631	1.28 %
Gas	80,244	22.17 %
Total IPP	314,021	86.74 %
Co-Gen	1,298	0.36 %
Total Co-Gen	1,298	0.36 %
Total Generation	362,997	100.27 %
PLTG	244	0.07 %
HVDC	725	0.20 %
Interconnection	969	0.27 %
Net Energy	362,028	100.00 %

Maximum Demand Record

Date: 3/29/2022	18,840 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:30:00 Hour
Total Set On Bus	17,793 MW
TNB Generation	2,863 MW
IPP Generation	13,882 MW
Spinning Reserve	994 MW
Maximum Demand	16,764 MW
Net Energy	362,028 MWH
Load Factor	89.98 %

Fuel Cost

Total Cost:	89,355,060.42 RM
Cost per Unit	24.61 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	910
Hydro	380
Syncon	569
Thermal	298
Total	2,157

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	30
TJGS	58
Total TNB	87
CBPS	52
EMPP	204
NPRI	163
PCGP	56
PLPS	49
SPGP	168
Total IPP	691
Total Gas	779
Total Gas Required	779

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	15945	15137	14624	14245	13877	13753	13520	13164	13116	14211	14888	15178	15058	14859	15554	15894	16095	15829	15622	15620	16578	16686	16330	16093

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, May 9, 2022 9:05:58 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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																									
JMAH	U002	453	404	353	355	454	504	506	553	557	557	605	605	604	604	605	605	505	603	653	697	692	697	695	696	695	697	694	695	695	695	695	695	694	696	696	696	695	694	694	696									
JMHE	U001	981	981	981	976	924	923	923	880	882	879	883	850	851	854	850	848	850	860	895	902	938	974	981	977	979	975	982	980	979	978	983	978	980	978	984	979	974	980	981	982	980	975	979	978	980	980	978		
JMHE	U002	978	978	981	975	919	921	919	882	881	880	882	850	850	854	849	849	849	857	898	899	955	980	977	974	974	973	976	977	973	971	975	974	976	978	978	984	978	977	980	979	983	980	975	979	980	980	979	978	
JMJG	U001	634	594	582	579	576	576	576	613	614	638	634	649	660	657	677	677	678	680	677	672	678	674	680	677	677	671	677	675	677	675	679	678	678	679	669	679	676	660	668	674	673	669	672	672	664	664	664		
JMJG	U002	618	599	588	581	574	581	579	618	621	637	640	653	660	661	662	660	679	657	680	677	674	673	677	677	673	677	673	684	671	689	672	673	676	669	678	672	666	689	667	681	672	680	661	680	676	676	676		
JMJG	U003	622	593	580	573	574	570	572	598	607	617	624	640	649	654	650	655	668	672	664	663	660	666	662	671	668	668	668	664	662	662	666	667	672	666	669	661	669	671	662	668	677	652	668	678	669	671	671	671	
JMJG	U004	979	977	976	975	930	921	922	884	884	854	855	852	856	854	854	854	853	857	905	902	961	977	977	968	971	969	970	972	972	970	970	970	970	970	968	975	972	975	972	973	972	972	975	969	972	971	972	972	972
JMJG	U005	975	973	972	971	917	919	919	876	879	848	850	852	851	849	849	853	850	854	900	906	977	977	975	974	976	973	983	973	975	976	972	972	972	975	973	977	972	974	974	970	971	970	971	972	972	972	972	972	
PKLG	U003	150	149	148	148	147	150	148	149	147	148	148	148	148	148	148	148	148	148	147	147	148	147	149	147	148	146	147	147	148	147	148	148	147	147	147	147	149	154	263	276	275	277	279	275	277	276	195	145	
PKLG	U004	153	152	150	150	151	152	151	151	153	151	154	150	152	151	153	152	153	153	152	154	152	152	152	152	153	152	150	147	156	152	153	153	153	155	150	153													

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		
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24	24	24	24
KNRG	HY02	38	38	38	38	23	23	23	23	24	23	23	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25
KNRG	HY03	36	36	36	36	23	23	23	22	23	23	22	22	23	23	24	37	37	37	24	22	22	36	36	36	36	36
LPIA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
LPIA	HY02	20	20	20	20	20	19	20	20	20	20	19	19	20	20	20	20	20	20	19	19	19	19	19	19	19	
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	
PGAU	HY03	21	21	21	21	21	21	21	21	21	21	21	22	21	21	21	21	21	21	21	21	21	82	82	82	20	21
PGAU	HY04	20	20	20	20	20	21	21	20	21	20	20	21	21	21	21	21	20	21	20	20	20	81	82	81	20	20
SIHY	HY02	50	50	50	50	50	30	0	0	0	0	0	0	0	0	0	0	0	30	30	30	50	50	50	50	50	
SIHY	HY03	50	50	50	50	50	30	24	0	0	0	0	0	0	0	0	0	0	30	30	30	50	50	50	50	50	
SYPS	HY01	25	25	25	25	16	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	25	25	25	25	25	
SYPS	HY03	25	25	25	25	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	
SYPS	HY04	25	25	25	25	16	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	25	25	25	25	25	
TMGR	HY01	82	68	44	78	80	82	82	82	87	86	63	54	86	43	43	62	86	54	61	43	86	40	42	41	43	
TMGR	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	
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	-1	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	86	84	91	93	93	87	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	94	93	21	-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	5	
UPIA	HY02	5	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 Hydro		489	472	448	483	458	344	308	285	283	291	288	264	232	265	211	210	231	254	246	253	235	254	207	208	209	
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	2	3	3	2	4	10	12	12	25	31	23	27	27	26	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	6	11	15	19	22	26	27	23	27	30	28	31	21	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	4	5	6	9	22	13	17	32	21	29	32	33	32	31	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	3	5	7	10	12	31	37	39	41	42	43	22	21	20	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	6	7	11	14	10	4	8	10	11	6	5	16	23	29	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	5	9	17	23	29	33	9	34	47	50	31	49	47	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	3	6	9	13	14	15	14	9	10	22	7	11	18	26	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	5	7	6	18	18	9	41	42	43	45	49	29	36	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	6	15	16	18	23	55	19	34	53	74	87	71	94	95	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	4	2	13	28	18	5	27	25	35	27	11	47	44	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	2	4	7	9	12	9	19	25	23	20	18	30	30	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	3	2	2	6	20	15	15	5	16	30	30	30	30	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	7	14	21	26	28	10	28	51	50	50	38	50	48	
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	8	8	9	44	86	97	100	0	0	98	91	2	10	95	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	6	5	19	23	30	22	51	52	52	46	34	43	49	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	2	1	2	1	4	10	12	15	31	14	34	35	39	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	4	8	12	16	10	14	8	17	18	12	29	14	6	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	5	15	11	30	30	30	30	30	30	30	30	30	30	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	17	82	124	170	306	414	376	459	477	550	574	637	658	604	
PCUF	CUFG	28	28	29	28	28	29	29	28	29	29	29	28	29	28	28	28	29	27	29	29	29	27	28	28	27	
PCUF	CUFK	26	27	27	22	27	28	26	27	28	26	26	25	26	26	27	26	25	25	25	25	27	26	27	25	24	
Total Co-Gen		54	55	56	50	55	57	55	55	57	55	54	54	55	53	53	54	56	54	55	53	53	55	54	56	52	
Total Gen		16033	15580	15153	14957	14677	14451	14286	14076	13892	13859	13807	13661	13590	13541	13221	12970	13116	13700	14228	14589	14926	15290	15218	15237		
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		31	29	31	31	29	29	29	31	31	29	31	31	31	31	29	29	30	31	30	31	30	31	31	31	30	

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																									
TIE-PLTG		56	11	-15	94	24	-26	12	-2	-16	-22	23	62	41	-7	27	14	-31	8	-15	-8	9	-51	10	-1	6	11	22	19	24	134	45	-59	-102	-32	-37	-9	-5	53	79	38	-52	3	41	41	-3	27	-7	54	
Interconnection		88	40	16	126	53	3	41	30	15	7	54	91	70	25	57	43	0	39	17	23	38	-22	40	30	36	41	53	50	55	165	76	-29	-70	-3	-6	22	24	84	108	66	-24	35	72	69	29	56	23	82	
System Total		15945	15540	15137	14831	14624	14448	14245	14046	13877	13852	13753	13570	13520	13516	13164	12927	13116	13661	14211	14566	14888	15312	15178	15207	15058	14903	14859	15239	15554	15680	15894	15950	16095	15936	15829	15687	15622	15642	15620	16020	16578	16764	16686	16598	16330	16227	16093	15880	
SRev ST-Coal		638	655	652	669	905	906	908	1002	1000	971	968	961	927	926	911	901	873	883	771	589	337	254	248	265	264	275	248	265	258	278	251	268	262	259	259	257	264	281	262	235	206	246	234	234	223	235	269	269	
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		
SRev CCGT-Gas		638	775	371	338	538	592	495	740	1070	1091	1203	1272	1342	1429	1704	1973	1848	1446	1340	1318	1325	1024	1140	1120	1338	1499	1621	1291	983	744	714	750	603	698	688	721	723	765	876	564	235	257	289	266	349	392	379	477	
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	
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	1	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		676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	489	489	489	489	489	489	489	489	489	302	214	214	214	302	489	489	489
Hydro		324	341	365	330	355	394	380	353	355	347	350	374	366	333	363	364	343	320	328	321	339	320	367	366	365	363	364	328	419	404	393	319	324	458	470	448	415	419	467	420	496	277	377	493	640	475	472	457	
S.Reserve Total		2276	2447	2064	2013	2474	2568	2459	2771	3101	3085	3197	3283	3311	3364	3654	3914	3740	3325	3115	2904	2677	2274	2431	2427	2643	2813	2909	2559	2336	2102	2034	2013	1865	1904	1907	1915	1891	1954	2094	1708	1239	994	1114	1207	1514	1591	1609	1692	