

Daily System Generation Summary on Sunday

Sunday, May 21, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,071 MW
Distillate	0 MW
Total TNB	2,071 MW
Total IPP	19,267 MW
Total Co-Gen	0 MW
Total System	24,620 MW

Generation Mix

Type	MWh	Percentage
Hydro	8,206	2.39 %
Gas	28,364	8.27 %
Total TNB	36,570	10.66 %
ST-Coal	235,945	68.79 %
LSS	3,921	1.14 %
Gas	66,608	19.42 %
Total IPP	306,474	89.35 %
Co-Gen	308	0.09 %
Total Co-Gen	308	0.09 %
Total Generation	343,352	100.11 %
PLTG	-376	-0.11 %
HVDC	742	0.22 %
Interconnection	366	0.11 %
Net Energy	342,986	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	18,444 MW
TNB Generation	2,221 MW
IPP Generation	13,974 MW
Spinning Reserve	2,232 MW
Maximum Demand	16,214 MW
Net Energy	342,986 MWH
Load Factor	88.14 %

Fuel Cost

Total Cost:	86,055,911.79 RM
Cost per Unit	25.04 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,850
Hydro	156
Syncon	743
Thermal	490
Total	3,239

Time	Weather	Temperature
Afternoon	Hot	36
Morning	Cloudy	31

Gas Usage

Station	(mmscfd)
GLGR	30
TJGS	94
Total TNB	124
CBPS	43
EMPP	208
NPRI	121
PCGP	72
SPGP	77
Total IPP	521
Total Gas	645
Total Gas Required	645

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	16204	15603	14913	14343	13884	13558	13405	12965	12351	12756	13261	13597	13500	13466	13753	14083	14327	14311	14112	14520	16022	16165	16018	15687

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, June 2, 2023 11:42:40 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	U002	705	703	707	703	700	707	703	702	705	705	705	706	702	706	707	656	655	655	654	653	670	704	705	706	603	621	566	504	502	505	663	703	708	703	704	707	706	709	698	705	701	704	703	711	706	702	708	704	
JMHE	U001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	43	59	130	318	505	506	507	513	622	862	902	900	1001	997	895	900	894	899	905	901	899	900	901	953	978	913	844	739	701	701	700		
JMHE	U002	977	972	974	975	974	976	970	969	900	900	903	898	900	902	870	828	830	830	827	828	829	829	829	900	900	898	901	903	902	902	895	898	900	894	899	901	902	901	903	901	947	976	976	976	976	979	977	975	
JMJG	U001	662	670	665	669	666	668	665	669	663	670	667	670	665	667	666	665	667	665	672	665	671	666	662	662	670	667	666	667	665	668	666	667	668	664	670	667	666	666	667	668	658	669	664	664	667	668	664	666	
JMJG	U002	679	671	679	676	673	673	677	675	672	675	674	678	673	677	675	675	675	678	677	670	672	583	509	513	553	548	628	675	673	683	669	679	675	676	674	670	676	669	679	674	674	678	670	674	682	668	672		
JMJG	U003	671	673	671	671	671	672	668	676	671	671	673	674	667	672	677	668	672	675	669	677	670	671	649	596	593	656	668	671	672	671	673	673	671	673	670	677	666	684	664	672	672	671	672	668	669	675	672	672	
JMJG	U004	975	979	976	973	977	978	974	980	920	904	906	903	906	906	900	843	840	840	834	839	837	837	839	862	902	906	906	906	906	909	908	906	906	905	907	904	906	901	906	939	983	981	985	980	983	980	982		
JMJG	U005	976	973	971	977	976	977	972	972	904	901	898	900	895	899	891	828	827	830	829	831	828	833	829	896	902	904	902	900	901	899	900	900	900	900	900	900	900	904	902	967	981	979	980	981	982	978	977		
PKLG	U003	271	275	277	275	275	276	278	273	275	276	276	277	277	276	276	235	234	235	234	235	234	265	278	278	237	205	207	206	207	206	207	206	214	281	281	280	182	146	176	276	279	275	278	275	276	275	274	279	277
PKLG	U004	275	274	275	273	278	278	274	271	273	269	272	275	276	275	276	234	235	233	232	233	234	251	267	270	248	204	203	205	200	204	206	206	259	277	275	212	149	151	227	279	274	274	270	274	276	273	275	274	
PKLG	U005	468	466	470	467	466	470	459	467	466	468	463	466	468	468	471	405	405	406	404	406	404	405	405	467	431	338	311	310	311	311	311	407	467	466	400	311	272	359	456	460	463	462	462	475	468	466	473		
PKLG	U006	359	357	357	358	272	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TBIN	U001	700	699	697	702	703	701	697	702	696	703	700	701	701	700	649	650	650	700	660	697	701	697	697	649	692	699	698	697	703	702	698	698	697	701	697	700	700	698	698	699	702	700	697	698	704	701	699		
TBIN	U002	699	697	700	698	700	700	700	699	696	699	703	697	698	700	699	696	698	698	698	702	693	698	697	700	698	699	699	697	698	700	703	698	699	700	696	701	698	700	698	698	701	700	699	703	700	699	702		
TBIN	U003	693	694	694	696	694	692	693	695	691	694	695	694	693	694	692	648	649	650	696	674	690	694	695	694	650	666	663	665	667	666	663	666	667	664	664	668	695	694	695	695	697	693	690	695	696	610	598	594	
TBIN	U004	983	981	982	983	983	982	983	982	903	903	904	903	902	903	894	832	834	833	833	831	834	831	835	879	903	904	904	903	903	902	905	904	903	901	900	907	905	901	904	905	953	982	982	986	984	981	985	984	
Total ST-Coal		10093	10084	10095	10096	10008	9750	9713	9732	9435	9438	9439	9442	9423	9442	9397	8865	8872	8918	9019	9037	9288	9557	9477	9620	9414	9534	9705	9767	9805	9916	10079	10015	10245	10295	10309	10100	9922	9933	10165	10344	10567	10729	10645	10587	10499	10382	10351	110351	
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	
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	359	360	341	339	335	344	222	353	350	353	266	254	223	227	221	221	221	220	222	222	247	220	257	228	221	222	220	222	231	316	324	343	349	227	221	230	302	281	327	317	221	222	222	221	222	222	220	222	
EMPP	BLK1	686	712	666	499	423	471	406	465	457	493	441	449	426	423	388	406	395	413	409	396	440	442	448	402	405	202	0	0	0	5	1	245	363	374	376	375	375	374	370	375	415	408	415	518	427	452			
EMPP	BLK2	686	713	678	710	712	700	688	462	456	489	442	448	425	428	388	405	395	412	405	396	441	442	448	402	406	409	414	418	447	473	417	452	449	406	400	440	449	438	516	417	517	517	418	408	411	516	427	460	
EMPP	BLK3	686	712	678	710	712	698	689	462	458	489	442	449	424	426	388	407	395	413	405	395	439	441	447	402	405	410	413	419	447	472	419	453	449	406	399	441	452	438	513	416	519	516	420	408	410	516	429	458	
GLGR	GT01	66	67	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	66	66	94	94	94	94	94	94	94	94	94	94	94	95	94	94	94	94	94	94	94	94	94	94	95	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	95			
GLGR	ST1C	71	71	39	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	513	520	504	497	326	326	320	329	329	325	325	329	328	332	305	325	310	328	326	314	328	329	328	317	320	327	328	332	325	327	320	325	326	319	315	323	328	327	331	503	497	502	500	494	502	327	502	317	
NPRI	BLK2	523	533	515	344	332	332	326	333	333	331	331	332	332	337	311	331	314	332	332	320	334	335	333	322	325	333	331	334	331	340	324	335	334	328	321	331	337	331	341	512	507	509	511	495	331	331	339	333	
PCGP	PGRG	589	606	571	603	600	600	589	603	603	402	398	402	402	402	360	400	368	399	401	375	401	402	380	386	401	401	402	397	400	386	400	386	400	400	388	377	402	401	403	404	400	598	603	601	590	598	599	601	601
SPGP	BLK1	602	602	602	601	599	600	594	602	603	602	601	602	602	603	546	364	366	364	365	636	362	363	362	363	364	362	364	362	361	361	363	362	362	362	362	362	362	362	450	707	712	710	712	712	714	601	600	601	
TJGS	GT1A	228	122	119	126	127	126	128	125	126	129	128	129	126	128	112	126	117	126	127	119	126	129	128	127	126	125	126	128	125	127	125	125	126	124	125	125	125	125	125	125	123	123	123	123	123	125	125	125	

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	HY03	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
HTRG	HY04	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	22	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	21
KNRG	HY02	23	23	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24
KNRG	HY03	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	39	38	38
KNYR	HY01	98	99	96	57	58	57	57	58	59	58	59	59	-1	-1	-1	-1	-1	-1	-1	-1	100	99	99	98
KNYR	HY02	59	99	57	98	85	81	59	97	100	99	97	100	96	100	53	88	55	60	73	57	99	99	99	99
KNYR	HY03	97	98	95	57	58	57	57	58	58	58	58	58	59	0	0	0	0	0	0	0	0	89	93	94
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	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
PGAU	HY04	21	21	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	50	49
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	41	41
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	32	33	32	31	32	33	33	33	32	33	33
TMGR	HY03	29	30	27	30	30	30	29	30	30	30	30	30	30	27	32	28	32	32	29	0	0	0	30	30
TMGR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	41	
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	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
UPIA	HY02	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Total Hydro		583	492	434	316	305	299	276	318	324	321	338	324	319	326	153	193	157	166	179	160	206	208	207	181
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
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	2	5	9	24	25	29	25	31
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	8	15	14	14	18	20	32	30	28
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	8	16	23	20	35	30	27	34	25
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	6	9	11	14	15	14	12
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	6	7	7	6	5	6	6	9
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	8	7	22	17	33	47	24	10	28
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	12	14	10	12	16	26	27	23	26
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	15	14	34	19	21	15	22	19	18
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	7	12	21	39	43	44	54	55	49	79	77
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	13	18	21	28	25	35	37	31	22
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	12	11	16	16	15	21	28	29
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	3	8	20	39	54	100	57	49	73
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	3	8	13	20	29	17	19	25
MALS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	6	6	8	18	21	24	25	21
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	4	6	9	13	15	15	16	20
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	9	9	15	25	28	30	32	39
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4	6	6	6	14	14	14	14
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	14	24	30	38	37	50	40	46	48
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	4	6	4	8	3	5	15	26	30
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	3	4	5	6	7	7	9	11
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	3	1	2	1	3	7	7	4

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																								
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	4	42	95	159	226	246	310	393	503	564	533	549	585	587	593	588	530	344	290	284	213	126	66	10	5	4	1	1	0	0	0	0	0			
ESTL	ESTL	15	14	14	22	18	18	17	18	19	14	12	16	14	15	20	16	21	13	13	18	14	15	13	18	18	21	24	26	20	18	16	0	0	6	3	2	5	8	20	20	17	16	13	0	2	2	14	15
KHTC	BLK1	-18	-15	-15	-11	-8	-11	-9	-11	-8	-8	-9	-8	-9	-7	-7	-7	-7	-10	-10	-13	-14	-17	-13	-18	-16	-18	-19	-21	-19	-20	-19	-19	-19	-20	-20	-18	-19	-18	-17	-15	-14	-16	-13	-11	-14	-11		
PCUF	CUFG	5	5	5	6	5	6	6	6	7	5	5	5	4	5	5	5	6	6	6	5	6	5	6	5	8	6	5	4	7	5	6	4	9	9	8	6	8	5	8	7	7	7	6	8	7			
PCUF	CUFK	3	3	2	1	3	5	2	2	3	3	1	4	2	1	3	2	3	4	3	2	2	2	3	3	3	24	26	21	13	11	8	8	9	9	8	7	9	9	10	8	8	9	10	11	11	10	9	10
PFTZ	PFTZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
Total Co-Gen		5	7	6	18	18	18	16	15	21	14	10	16	12	12	21	16	23	16	12	15	9	8	5	13	7	34	36	35	17	14	8	-4	-6	1	-6	-3	4	5	17	18	12	17	15	1	6	6	16	20
Total Gen		16214	15944	15625	15270	14910	14680	14381	14212	13909	13801	13574	13587	13453	13497	12982	12474	12369	12612	12774	13014	13279	13599	13650	13674	13537	13516	13520	13665	13751	14022	14077	14160	14311	14332	14362	14294	14152	14048	14544	15301	16035	16212	16151	16168	15992	15786	15683	15376
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		
TIE-HVDC		29	29	31	31	30	30	31	31	31	31	30	30	30	31	31	31	31	31	31	31	30	30	31	31	30	30	30	30	33	31	34	34	33	33	32	33	30	30	33	32	32	30	33	29	30			
TIE-PLTG		-19	-24	-9	-12	-33	-39	7	-12	-6	-17	-14	-22	18	17	-14	-43	-13	-19	-13	0	-12	4	22	27	7	-1	24	-35	-33	-42	-39	-50	-50	-28	17	8	8	-16	-7	-9	-20	-34	-46	-18	-56	-33	-33	-42
Interconnection		10	6	22	19	-3	-9	38	19	25	14	16	8	48	46	17	-12	18	12	18	31	18	34	53	58	37	29	54	-5	-2	-12	-6	-19	-16	5	51	42	40	17	24	21	13	-2	-14	14	-26	0	-4	-12
System Total		16204	15938	15603	15251	14913	14689	14343	14193	13884	13787	13558	13579	13405	13451	12965	12486	12351	12600	12756	12983	13261	13565	13597	13616	13500	13487	13466	13670	13753	14034	14083	14179	14327	14327	14311	14252	14112	14031	14520	15280	16022	16214	16165	16154	16018	15786	15687	15388
SRev ST-Coal		179	188	177	176	221	172	209	190	487	480	479	473	490	475	473	716	749	705	588	582	691	574	620	465	684	414	491	519	666	661	618	694	657	615	606	675	669	647	656	575	355	193	257	315	240	240	271	171
SRev CCGT-Gas		358	530	801	698	959	925	1162	1391	1409	1510	1751	1733	1839	1821	2127	2093	2214	2072	2084	1913	2079	2093	2041	2252	2246	2120	2104	2067	2011	1856	1943	1906	1950	2149	2250	2105	2070	2121	1819	1431	1288	1275	1430	1493	1625	1703	1568	1668
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	0	0	0	0	0	0	0	0	0	0	0	0		
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	
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 Co-Gen		36	30	30	22	16	22	18	22	16	16	16	18	16	18	14	14	14	14	20	20	26	28	34	26	38	34	38	40	44	40	40	38	40	40	42	42	38	40	38	36	36	32	30	34	28	24	30	24
Syncon		613	739	739	739	739	739	739	739	739	739	739	739	840	840	840	840	840	840	840	840	840	840	840	689	840	840	840	840	840	840	840	840	840	689	739	739	739	613	613	613	525	525	525	525	525	739		
Hydro		342	182	240	200	211	217	240	198	192	195	329	192	197	190	162	122	158	149	136	155	109	107	108	285	156	129	120	109	111	109	119	109	110	133	153	240	109	114	108	140	119	119	239	298	259	208	205	74
S.Reserve Total		1528	1669	1987	1835	2146	2075	2368	2540	2843	2940	3163	3155	3281	3243	3616	3785	3975	3780	3668	3510	3745	3642	3643	3717	3964	3537	3593	3575	3672	3506	3560	3587	3597	3777	3891	3751	3625	3661	3360	2795	2411	2232	2481	2665	2677	2700	2599	2676