

Daily System Generation Summary on Sunday

Sunday, July 2, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,034 MW
Distillate	0 MW
Total TNB	2,034 MW
Total IPP	17,187 MW
Total Co-Gen	0 MW
Total System	23,223 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,229	3.69 %
Gas	45,045	13.61 %
Total TNB	57,274	17.30 %
ST-Coal	192,652	58.19 %
LSS	5,300	1.60 %
Gas	75,658	22.85 %
Total IPP	273,610	82.64 %
Co-Gen	432	0.13 %
Total Co-Gen	432	0.13 %
Total Generation	331,316	100.07 %
PLTG	239	0.07 %
Interconnection	239	0.07 %
Net Energy	331,077	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:	21:00:00 Hour
Total Set On Bus	17,638 MW
TNB Generation	3,226 MW
IPP Generation	12,994 MW
Spinning Reserve	1,408 MW
Maximum Demand	16,204 MW
Net Energy	331,077 MWH
Load Factor	85.13 %

Fuel Cost

Total Cost:	75,428,075.43 RM
Cost per Unit	22.76 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,383
Hydro	423
Syncon	692
Thermal	489
Total	2,987

Time Weather Temperature

Afternoon	Hot	34
Morning	Cloudy	29

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	95

Total TNB 124

CBPS	46
EMPP	237
NPRI	134
PCGP	73
SPGP	179

Total IPP 669

Total Gas 792

Total Gas Required 792

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	14921	14326	13801	13367	12909	12707	12717	12311	11763	12072	12752	13068	13136	13165	13584	13879	14059	14111	13850	14370	15908	16204	16039	15858

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, July 5, 2023 9:06:01 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Sunday

[illegible]

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
LPIA	HY02	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
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	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	17	-1	-1	-1	-1	-1	-1
PGAU	HY03	21	21	21	21	21	21	21	20	21	21	20	18	19	18	18	17	22	23	25	25	25	23	22	22
PGAU	HY04	21	20	21	20	21	21	21	20	21	21	21	19	19	20	18	18	17	22	23	25	25	25	22	22
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	50	50
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	50	50
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	50	50
SYPS	HY01	24	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY03	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	25	25
SYPS	HY04	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	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	33	83	77
TMGR	HY02	88	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	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	31	0	0	0	82	83	83
TMGR	HY04	33	33	33	33	33	32	33	33	33	33	33	31	30	31	30	30	26	30	30	31	82	83	82	60
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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Total Hydro		698	576	579	503	504	419	406	406	423	423	403	405	407	406	380	381	375	381	383	379	390	370	370	385
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
BDSL	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	8	13	8	8	5	9	10	11	11	11	14	16	11	13	12	10	13	18	16	16	14	16	12	10
KHTC	BLK1	-12	-12	-12	-11	-12	-10	-10	-9	-10	-7	-8	-6	-9	-7	-6	-8	-8	-10	-11	-16	-17	-17	-17	-19

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	
PCUF	CUFG	17	20	18	19	3	1	3	3	4	3	2	3	2	4	2	2	3	3	2	2	3	3	2	2	3	2	2	3	2	3	3	3	3	4	3	3	2	4	1	2	2	4	2	2	2	2	3	
PCUF	CUFK	2	2	2	2	4	1	3	4	2	2	2	3	26	27	27	27	26	26	25	26	26	26	26	26	26	25	25	1	3	1	2	2	4	3	2	4	3	3	2	2	2	2	3	1	2	2	2	3
PFTZ	PFTZ	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	8	
Total Co-Gen		23	31	24	26	8	9	14	17	15	17	18	25	39	47	48	44	43	40	35	34	39	37	36	32	38	28	23	25	-7	-13	-13	0	0	6	5	7	6	9	8	3	5	10	10	8	0	4	0	2
Total Gen		14917	14628	14298	14047	13778	13545	13352	13150	12902	12845	12712	12623	12692	12603	12314	11799	11775	11959	12084	12422	12766	13006	13064	13119	13135	13141	13195	13462	13660	13864	13896	13945	14063	14147	14139	13935	13852	13854	14386	15319	15942	16114	16230	16202	16041	16031	15882	15609
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	
TIE-HVDC		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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-PLTG		-4	6	-28	-12	-23	-20	-15	-15	-7	-15	5	-5	-25	5	3	1	12	18	12	-1	14	15	-4	-4	-1	42	30	55	76	60	17	-4	4	10	28	17	2	6	16	22	34	23	26	23	2	20	24	34
Interconnection		-4	6	-28	-12	-23	-20	-15	-15	-7	-15	5	-5	-25	5	3	1	12	18	12	-1	14	15	-4	-4	-1	42	30	55	76	60	17	-4	4	10	28	17	2	6	16	22	34	23	26	23	2	20	24	34
System Total		14921	14622	14326	14059	13801	13565	13367	13165	12909	12860	12707	12628	12717	12598	12311	11798	11763	11941	12072	12423	12752	12991	13068	13123	13136	13099	13165	13407	13584	13804	13879	13949	14059	14137	14111	13918	13850	13848	14370	15297	15908	16091	16204	16179	16039	16011	15858	15575
SRev ST-Coal		243	313	564	526	591	588	596	586	590	590	577	583	589	596	581	573	563	599	702	694	702	616	591	611	590	598	607	598	602	588	598	598	600	600	592	596	595	578	617	417	279	281	284	190	216	190	212	292
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		531	540	441	473	559	703	876	1091	1226	1142	1238	1332	1171	1361	1647	2183	2452	2318	2264	2007	1933	1949	2073	2005	2048	2232	2267	2103	1912	1813	1730	1657	1484	1380	1183	1286	1284	1277	820	216	132	146	158	182	199	153	158	179
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 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	
SRev Co-Gen		0	0	-1	0	0	0	1	1	0	-1	0	1	2	0	0	0	-1	0	1	1	-1	0	-3	-1	-2	0	0	0	0	0	0	0	-1	0	0	0	-2	0	-2	0	1	0	0	0	1	0	-1	0
Syncon		764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764		
Hydro		432	380	377	378	377	414	427	427	561	561	430	428	426	427	413	412	418	412	410	414	554	423	423	559	425	434	418	410	403	341	392	397	362	493	382	398	400	533	415	458	478	453	477	409	402	530	366	366
S.Reserve Total		1970	1997	2145	2141	2291	2469	2664	2869	2990	2905	3009	3108	2952	3148	3405	3932	4196	4093	4141	3880	3801	3752	3848	3787	3825	4028	4056	3875	3681	3506	3484	3416	3209	3086	2921	3044	3041	3001	2614	1767	1379	1369	1408	1457	1494	1398	1411	1513