

Daily System Generation Summary on Thursday

Thursday, August 31, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,301 MW
Distillate	0 MW
Total TNB	2,301 MW
Total IPP	18,017 MW
Total Co-Gen	0 MW
Total System	22,880 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,310	4.99 %
Gas	20,259	6.20 %
Total TNB	36,569	11.19 %
ST-Coal	191,387	58.56 %
LSS	5,410	1.66 %
Gas	92,654	28.35 %
Total IPP	289,451	88.56 %
Co-Gen	51	0.02 %
Total Co-Gen	51	0.02 %
Total Generation	326,071	99.76 %
PLTG	-82	-0.03 %
HVDC	-694	-0.21 %
Interconnection	-776	-0.24 %
Net Energy	326,847	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	17,100 MW
TNB Generation	2,690 MW
IPP Generation	12,892 MW
Spinning Reserve	1,521 MW
Maximum Demand	15,630 MW
Net Energy	326,847 MWH
Load Factor	87.13 %

Fuel Cost

Total Cost:	69,464,139.02 RM
Cost per Unit	21.26 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	249
Hydro	234
Syncon	762
Thermal	698
Total	1,943

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Cloudy	28

Gas Usage

Station	(mmscfd)
GLGR	30
TJGS	66
Total TNB	97
CBPS	48
EMPP	283
NPRI	141
PCGP	88
PLPS	38
SPGP	46
Total IPP	643
Total Gas	740
Total Gas Required	740

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	15554	14981	14511	13905	13520	13131	12839	12551	11423	11594	12159	12586	12621	12684	13039	13293	13445	13555	13706	14171	15596	15630	15319	15224

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, September 5, 2023 9:09:14 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Thursday

[illegible]

Daily MW Generation on Thursday

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	
TBLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	11	15	12	10	14	14	23	19	30	30	25	20	30	19	30	20	25	24	11	1	1	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	11	62	147	243	286	440	609	656	686	768	795	842	699	716	645	627	743	562	497	295	191	167	109	30	3	2	1	1	0	0	0	0	0
ESTL	ESTL	14	12	13	8	0	4	1	0	9	6	9	14	16	0	6	21	18	16	16	22	17	15	11	8	10	10	16	16	22	13	10	12	10	14	10	1	0	0	0	8	0	0	0	10	10	-8	-12	-16
KHTC	BLK1	-28	-24	-25	-23	-23	-25	-23	-24	-23	-22	-20	-19	-20	-17	-16	-15	-16	-21	-23	-22	-23	-26	-29	-27	-31	-27	-29	-29	-32	-30	-27	-27	-29	-31	-32	-31	-27	-25	-27	-27	-28	-26	-24	-24	-21	-22	-20	-21
PCUF	CUFG	20	18	19	17	19	19	18	17	19	19	19	19	18	18	4	2	4	2	3	4	4	4	3	17	15	16	15	17	15	14	15	14	15	15	16	15	16	18	18	18	18	17	17	19	19	18	18	
PFTZ	PFTZ	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	4	4	4			
Total Co-Gen		10	10	11	6	0	2	0	-3	9	7	12	18	18	5	-2	12	10	1	0	8	2	-3	-11	2	-2	3	6	8	9	1	2	3	0	2	-3	-10	-8	-5	-5	3	-6	-4	-3	7	12	-7	-10	-15
Total Gen		15502	15232	14937	14608	14449	14161	13854	13601	13469	13142	13090	13004	12808	12837	12552	11806	11403	11520	11547	11800	12163	12413	12582	12620	12593	12541	12624	12829	13017	13106	13279	13343	13395	13529	13540	13627	13716	13724	14116	15099	15553	15578	15579	15438	15279	15234	15223	14890
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		-30	-29	-29	-31	-31	-30	-30	-30	-28	-30	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		-22	6	-16	-20	-31	-27	-21	-6	-23	-24	-13	-9	-2	-5	29	9	9	12	-18	-21	33	21	24	14	1	-35	-32	-31	7	2	15	37	-21	-3	14	42	38	-2	-26	-31	-14	-9	-22	-18	-11	-11	28	20
Interconnection		-52	-23	-44	-51	-62	-57	-51	-37	-51	-54	-41	-37	-31	-35	1	-19	-20	-17	-47	-50	4	-8	-4	-14	-28	-64	-60	-60	-22	-27	-14	8	-50	-31	-15	13	10	-30	-55	-60	-43	-38	-51	-47	-40	-40	-1	-9
System Total		15554	15255	14981	14659	14511	14218	13905	13638	13520	13196	13131	13041	12839	12872	12551	11825	11423	11537	11594	11850	12159	12421	12586	12634	12621	12605	12684	12889	13039	13133	13293	13335	13445	13560	13555	13614	13706	13754	14171	15159	15596	15616	15630	15485	15319	15274	15224	14899
SRev ST-Coal		275	169	171	162	275	319	314	330	333	328	332	326	319	339	435	840	860	821	817	818	810	816	819	799	809	808	815	817	814	826	801	808	818	803	632	633	644	814	704	464	429	400	420	415	418	425	413	589
SRev CCGT-Gas		977	1171	1472	1641	1404	1548	1820	2040	2458	1539	1496	1595	1789	1740	1905	1713	1778	1174	744	323	201	208	198	220	215	289	217	155	229	227	181	254	120	187	278	437	436	267	249	323	218	213	214	256	247	213	404	268
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 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
SRev Co-Gen		-1	0	0	0	0	0	-1	1	1	1	0	-1	0	0	1	0	-2	0	2	0	0	1	2	1	0	2	1	3	1	0	0	0	0	0	2	1	-1	0	1	0	1	0	-2	0	0	0	1	0
Syncon		802	802	802	651	802	802	802	802	313	500	500	500	500	651	752	752	903	1004	1004	802	802	802	802	903	903	752	802	615	651	802	802	802	802	802	802	802	802	802	464	615	615	615	552	703	890	890	890	890
Hydro		256	254	247	371	206	203	191	202	201	479	387	389	394	387	310	412	415	275	236	236	299	163	132	297	285	295	424	124	254	226	101	202	92	146	105	175	199	268	222	379	287	290	274	452	371	252	288	264
S.Reserve Total		2309	2396	2692	2825	2687	2872	3126	3375	3795	2660	2715	2809	3002	2966	3302	3717	3803	3173	2803	2381	2112	1990	1953	2119	2212	2297	2209	1901	1913	1930	1885	2066	1832	1938	1819	2048	2080	2151	1978	1630	1550	1518	1521	1675	1739	1780	1996	2011