

Daily System Generation Summary on Monday

Monday, July 3, 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	17,965 MW
Total Co-Gen	0 MW
Total System	24,001 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,067	4.17 %
Gas	57,803	15.01 %
Total TNB	73,870	19.18 %
ST-Coal	210,312	54.61 %
LSS	6,762	1.76 %
Gas	94,378	24.51 %
Total IPP	311,452	80.87 %
Co-Gen	195	0.05 %
Total Co-Gen	195	0.05 %
Total Generation	385,517	100.10 %
PLTG	398	0.10 %
Interconnection	398	0.10 %
Net Energy	385,119	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:	16:30:00 Hour
Total Set On Bus	19,773 MW
TNB Generation	4,004 MW
IPP Generation	14,360 MW
Spinning Reserve	1,400 MW
Maximum Demand	18,383 MW
Net Energy	385,119 MWH
Load Factor	87.29 %

Fuel Cost

Total Cost:	91,981,232.08 RM
Cost per Unit	23.84 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	436
Hydro	476
Syncon	466
Thermal	193
Total	1,571

Time Weather Temperature

Afternoon	Rainy	32
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	147
Total TNB	176
CBPS	50
EMPP	288
NPRI	152
PCGP	83
SKSP	28
SPGP	205
Total IPP	806
Total Gas	981

Total Gas Required 981

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	15144	14459	13807	13412	13113	12919	13124	13332	13962	15794	16774	17295	17222	17082	17733	18265	18349	18122	16828	16686	17958	18081	17681	17351

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, July 5, 2023 9:13:03 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Monday

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	U001	705	704	705	706	705	706	706	704	706	703	705	707	706	706	705	705	705	704	705	705	706	706	704	704	704	707	701	706	706																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
JMAH	U002	706	700	708	702	706	709	706	710	702	706	706	708	705	705	704	706	703	707	704	706	702	708	702	704	704	707	702	706	707																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
JMHE	U001	975	901	900	897	821	819	821	819	817	821	823	819	820	821	818	820	821	897	966	975	973	975	975	968	969	970	968	972	972																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
JMHE	U002	501	500	496	499	499	498	501	500	498	500	498	498	502	498	501	500	498	500	499	503	498	499	503	500	502	500	503	502	501																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
JMJG	U002	682	679	677	634	556	478	409	422	420	420	420	420	421	420	423	421	425	420	415	422	420	420	420	420	420	420	420	422	422																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
JMJG	U003	670	689	669	670	670	672	672	671	672	671	662	590	568	548	513	519	516	495	496	498	497	500	585	671	679	687	677	681	677																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
JMJG	U004	968	932	898	897	872	827	822	823	825	826	825	827	827	824	826	823	824	836	896	951	976	973	975	976	975	977	975	977	973																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
JMJG	U005	981	906	900	900	823	823	823	822	820	820	821	819	823	823	820	821	823	851	954	981	981	982	980	979	978	981	983	983	981																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
PKLG	U003	146	146	146	146	146	146	147	146	146	146	147	146	146	146	146	146	145	145	164	205	234	255	280	279	277	281	274	278	278																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
PKLG	U005	268	269	268	269	268	268	269	271	268	269	268	269	269	269	269	269	269	269	271	296	385	462	473	467	465	467	468	466	466	463																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
PKLG	U006	338	276	270	269	269	269	268	269	269	269	269	269	269	333	362	427	433	442	446	451	449	449	447	449	448	449	451	447	448																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
TBIN	U001	220	219	220	217	219	219	219	218	219	219	219	219	219	240	390	498	623	669	680	700	700	705	602	609	627	676	650	653	654																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
TBIN	U003	600	505	452	450	374	293	206	211	210	209	209	211	210	210	288	436	632	693	698	697	697	693	700	695	696	694	694	693	694																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
TBIN	U004	980	900	900	900	820	820	820	820	820	820	820	820	820	820	820	820	900	980	980	980	980	980	980	985	984	983	982	981	985																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Total ST-Coal		8740	8326	8209	8156	7748	7547	7389	7406	7392	7403	7392	7318	7306	7279	7408	7740	8109	8393	8761	8985	9111	9191	9314	9324	9363	9421	9475	9466	9464	9472	9451	9461	9461	9470	9400	9367	9394	9450	9468	9457	9464	9462	9459	9445	9456	9451	9457	9451																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily MW Generation on Monday

[illegible]

Daily MW Generation on Monday

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	-17	-16	-15	-13	-12	-15	-11	-13	-9	-11	-9	-13	-12	-11	-12	-13	-16	-23	-24	-27	-31	-32	-35	-40	-37	-40	-40	-44	-44	-44	-47	-48	-47	-45	-49	-43	-41	-37	-36	-34	-33	-35	-32	-32	-32	-31	-26	-25
PCUF	CUFG	3	2	2	2	2	3	2	3	2	2	2	3	4	1	2	3	4	2	4	2	3	2	3	3	2	3	3	3	3	2	4	3	2	4	3	3	2	3	4	2	3	2	3	2	2	3	3	3
PCUF	CUFK	2	1	2	2	2	3	1	3	1	3	2	3	2	2	3	3	3	3	2	3	3	2	3	3	15	25	28	25	26	25	27	26	26	26	27	26	26	25	26	26	26	26	24	25	26	26	26	26
PFTZ	PFTZ	8	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	8	8	7	7	7	7	7	7	7	7	7	7	8	8	7	7	
Total Co-Gen		4	-1	7	12	2	13	17	17	16	18	16	17	23	23	26	25	23	15	11	5	1	-6	-9	-13	8	9	11	12	11	9	7	-2	-2	9	1	8	2	6	10	2	3	0	2	3	4	6	1	11
Total Gen		15144	14749	14463	14167	13795	13646	13435	13283	13138	12872	12930	12965	13133	13383	13352	13440	13994	15064	15812	16242	16815	17099	17349	17442	17255	17154	17119	17429	17734	18175	18313	18352	18348	18373	18125	17415	16842	16510	16674	17539	17981	18095	18104	17968	17701	17634	17363	16993
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	0
TIE-PLTG		0	-36	4	22	-12	8	23	-4	25	5	11	2	9	24	20	49	32	41	18	11	41	36	54	46	33	36	37	3	1	43	48	33	-1	-10	3	20	14	4	-12	17	23	8	23	0	20	18	12	-4
Interconnection		0	-36	4	22	-12	8	23	-4	25	5	11	2	9	24	20	49	32	41	18	11	41	36	54	46	33	36	37	3	1	43	48	33	-1	-10	3	20	14	4	-12	17	23	8	23	0	20	18	12	-4
System Total		15144	14785	14459	14145	13807	13638	13412	13287	13113	12867	12919	12963	13124	13359	13332	13391	13962	15023	15794	16231	16774	17063	17295	17396	17222	17118	17082	17426	17733	18132	18265	18319	18349	18383	18122	17395	16828	16506	16686	17522	17958	18087	18081	17968	17681	17616	17351	16997
SRev ST-Coal		325	583	635	674	661	633	620	609	619	610	623	665	659	597	768	762	737	691	524	500	374	294	221	183	157	199	145	154	156	98	119	109	109	100	170	203	176	120	102	113	106	108	111	125	114	119	113	119
SRev CCGT-Gas		404	255	270	329	267	587	649	818	957	1227	1175	1048	880	618	739	1007	923	634	632	641	450	518	480	399	802	1073	1221	877	666	292	288	429	440	434	459	685	1018	1270	1293	498	267	266	270	283	283	330	483	871
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	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	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		0	1	0	0	0	0	0	-1	0	0	0	0	0	0	0	1	0	0	0	-1	2	0	0	3	0	0	0	0	0	0	2	0	0	0	0	1	1	1	0	2	1	0	1	0	0	0	0	0
Syncon		676	489	489	525	676	676	676	676	676	525	676	676	676	764	764	764	613	764	764	676	676	676	676	676	526	525	676	676	676	489	302	302	151	302	302	676	764	764	525	489	302	302	151	151	676	676	676	676
Hydro		347	284	446	512	327	341	423	423	414	423	555	423	417	402	356	353	354	478	319	314	427	384	346	387	397	610	471	461	346	432	567	520	643	564	572	340	387	405	493	506	533	415	552	662	416	433	402	388
S.Reserve Total		1752	1612	1840	2127	2018	2324	2455	2613	2752	3023	2965	2899	2719	2380	2714	2974	2865	2503	2326	2305	2016	1872	1723	1648	1882	2407	2513	2168	1844	1311	1278	1360	1343	1400	1503	1991	2433	2647	2414	1606	1210	1092	1084	1222	1489	1558	1674	2054