

Daily System Generation Summary on Monday

Monday, April 10, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,262 MW
Distillate	0 MW
Total TNB	2,262 MW
Total IPP	18,711 MW
Total Co-Gen	0 MW
Total System	24,681 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,823	3.35 %
Gas	43,508	11.36 %
Total TNB	56,331	14.71 %
ST-Coal	222,268	58.03 %
LSS	7,375	1.93 %
Gas	96,034	25.07 %
Total IPP	325,677	85.02 %
Co-Gen	577	0.15 %
Total Co-Gen	577	0.15 %
Total Generation	382,585	99.88 %
PLTG	141	0.04 %
HVDC	-608	-0.16 %
Interconnection	-467	-0.12 %
Net Energy	383,052	100.00 %

Maximum Demand Record

Date: 5/24/2022	19,183 MW
Date: 4/12/2023	401,811 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:00:00 Hour
Total Set On Bus	19,846 MW
TNB Generation	2,784 MW
IPP Generation	15,511 MW
Spinning Reserve	1,528 MW
Maximum Demand	18,315 MW
Net Energy	383,052 MWH
Load Factor	87.14 %

Fuel Cost

Total Cost:	97,158,162.85 RM
Cost per Unit	25.39 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	340
Hydro	413
Syncon	736
Thermal	225
Total	1,714

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	50
SRDG	0
TJGS	48
Total TNB	97
CBPS	49
EMPP	310
NPRI	155
PCGP	89
SPGP	192
Total IPP	794
Total Gas	891

Total Gas Required 891

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	15296	14499	13886	13414	13121	13162	13277	13171	13886	15536	16409	16955	16858	16724	17581	18093	18315	17748	16932	16944	17660	17933	17573	17168

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, April 13, 2023 12:01:02 PM
(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	703	406	256	213	215	214	213	214	216	214	215	214	214	212	214	215	212	252	400	527	707	702	704	705	706	705	703	705	705	706	701	705	705	707	706	705	707	705	706	706	703	707	703	704							
JMAH	U002	695	707	702	435	211	214	213	214	214	214	214	214	215	213	378	621	695	704	703	704	708	705	705	704	706	706	703	708	703	705	707	708	706	704	705	706	702	705	705	707	703	706	708	706	709						
JMHE	U002	975	976	973	900	900	847	850	852	848	853	849	849	847	848	851	849	850	853	952	978	980	980	979	977	973	977	975	972	975	976	977	976	978	976	977	976	979	978	977	978	974	974	980	973	977						
JMJG	U001	668	668	668	671	671	672	668	666	666	671	671	671	671	671	668	668	668	669	668	673	669	669	671	671	672	666	670	671	671	669	673	670	666	632	590	651	680	675	678	678	677	677	679	676	684	674					
JMJG	U002	679	679	679	678	674	676	678	676	676	677	677	677	677	677	680	680	680	680	685	679	677	682	682	677	677	679	679	679	681	680	676	673	677	675	679	680	685	683	679	678	679	684	679	678	679	678					
JMJG	U003	674	674	674	679	673	674	675	675	675	673	673	673	673	673	682	682	682	682	675	671	677	672	672	676	676	676	671	675	675	676	673	674	677	673	674	669	678	672	673	674	673	673	680	677	676	672	684	669			
JMJG	U004	983	983	983	960	923	881	849	854	854	848	848	848	848	848	854	854	854	881	952	965	966	966	969	969	969	969	964	967	967	968	966	965	988	986	987	985	986	990	987	985	985	986	987	988	985	983	985				
JMJG	U005	979	979	979	927	900	858	850	850	850	848	848	848	848	848	849	849	849	920	976	976	977	977	975	978	977	976	975	977	974	976	974	977	976	976	979	975	976	978	977	976	979	979	976	977							
PKLG	U003	215	161	157	151	149	151	151	152	150	151	149	151	150	150	151	150	148	148	148	148	148	148	147	148	148	147	212	278	279	283	277	267	265	264	265	265	264	263	269	276	278	275	278	277	278						
PKLG	U005	0	0	0	0	0	0	0	0	0	0	0	0	0	81	94	122	141	158	162	161	162	164	162	158	164	219	264	313	366	445	470	473	473	470	475	473	474	481	468	481	466	471	473	469	473	477	458				
PKLG	U006	396	313	260	269	269	269	269	269	269	269	269	269	267	267	293	381	438	447	447	447	447	449	446	447	448	446	447	449	447	445	449	445	449	449	449	449	448	447	447	446	447	449	450	448	447						
TBIN	U001	383	613	697	701	691	695	611	501	390	217	212	208	210	211	237	372	584	699	697	699	697	701	697	699	700	699	701	704	702	699	700	699	700	698	703	701	696	698	696	701	700	702	700	702	697	701	704				
TBIN	U002	703	696	703	700	699	701	700	699	697	682	548	552	559	696	699	696	696	696	697	699	700	698	696	698	698	702	687	699	692	699	699	699	699	699	699	700	696	697	699	699	699	700	695	698	698	699	700	697			
TBIN	U003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129	210	327	366	475	551	640	680	690	700	698	696	697	695	695	695	697	696	693	695	698	692	693	696	696
TBIN	U004	983	984	982	902	903	852	852	853	853	854	853	853	853	853	854	854	854	933	983	982	983	982	986	982	985	983	980	984	984	982	983	983	982	982	983	982	983	982	981	983	981	984	981	982	984	982	983				
Total ST-Coal		9036	8839	8713	8186	7878	7704	7579	7475	7355	7170	7025	7027	7033	7172	7274	7310	7495	7981	8691	8967	9041	9184	9314	9629	9689	9832	9896	10061	10193	10405	10579	10621	10632	10640	10590	10562	10613	10646	10656	10634	10650	10636	10664	10654	10650	10660	10669	10636			
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	355	355	354	356	355	354	354	355	356	295	318	223	293	336	235	342	311	360	254	332	353	360	349	220	221	333	221	221	289	357	353	359	360	359	360	222	221	224	222	221	340	360	359	359	359	359	298	220			
EMPP	BLK1	684	710	682	702	710	691	673	688	685	691	710	699	710	710	706	711	713	718	705	708	714	714	710	705	694	710	710	710	708	709	709	710	705	709	690	690	710	710	710	688	712	709	710	709	694	703	689	710			
EMPP	BLK2	683	709	683	697	709	690	677	688	685	693	710	700	710	711	705	711	712	718	703	708	715	714	710	708	691	709	709	710	711	709	709	710	709	709	691	710	709	710	710	688	711	710	710	694	701	689	709				
EMPP	BLK3	684	710	682	697	710	691	673	688	681	694	710	702	710	711	704	711	713	718	702	709	714	715	711	708	690	711	711	710	708	710	709	710	708	708	689	710	710	709	710	687	711	709	710	710	693	700	689	709			
GLGR	GT01	107	108	106	106	106	107	90	65	66	66	66	66	66	67	66	66	68	66	65	66	66	66	64	66	65	65	66	64	65	67	107	106	105	65	65	66	65	66	91	103	103	104	103	72	66	66					
GLGR	GT02	107	107	107	107	107	107	89	66	66	67	67	66	66	67	66	66	67	66	65	66	66	66	66	66	66	66	66	65	66	69	107	106	107	66	66	66	66	66	93	103	104	103	104	71	66	66					
GLGR	ST1C	97	97	96	96	96	96	90	71	71	70	70	70	70	71	70	70	70	70	70	71	70	70	70	70	71	71	71	71	71	71	95	98	97	76	71	71	71	71	83	94	94	94	94	81	72	71					
NPRI	BLK1	499	511	499	506	512	505	500	503	500	435	443	517	520	523	379	339	463	528	502	521	510	526	521	517	515	326	326	425	518	518	515	517	516	517	510	518	415	355	460	508	517	515	514	515	509	511	474	340			
NPRI	BLK2	510	521	508	517	523	515	509	514	511	440	452	528	532	535	397	365	535	538	523	530	536	535	530	526	517	332	332	515	529	531	530	529	527	530	513	528	424	404	519	507	528	526	526	513	515	512	386				
PCGP	PGRG	582	605	576	594	602	591	579	586	582	596	603	610	598	602	609	616	593	603	610	613	603	594	590	603	600	606	601	605	599	601	602	603	589	601	599	600	601	590	606	602	600	601	592	593	587	603					
SPGP	BLK1	703	720	700	712	716	709	701	706	701	711	717	715	719	719	714	719	722	721	715	719	720	719	706	697	711	702	696	706	698	699	700	703	713	704	717	715	717	718	704	716	718	718	711	712	708	717					
SPGP	BLK2	0	0	0	0	0	161	207	207	327	601	709	717	716	716	716	718	719	719	718	716	712	704	703	704	695	696	690	688	692	688	683	684	687	709	724	727	724	726	724	726	725	724	726	718	718	718	718	719			
TJGS	GT1A	236	235	236	235	237	236	237	237	148	135	136	137	135	136	135	134	135	135	135	137	137	209	136	136	135	137	136	136	226	232	231	231	231	232	149	135	135	136	136	231	232	232	232	233	233	129	134				
TJGS	ST1C	121	121	121	120	121	120	119	1																																											

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		
PCUF	CUFG	3	4	4	3	3	4	4	4	3	4	3	4	2	3	4	1	4	3	4	4	3	4	4	3	4	4	3	3	5	4	4	4	4	4	5	3	4	3	4	4	4	4	4	4	3	4	4	4	4
PCUF	CUFK	4	4	4	2	2	2	3	3	4	2	3	3	1	3	2	1	3	3	2	3	2	3	3	3	2	4	2	3	6	3	2	3	2	4	6	6	7	6	7	5	6	6	5	6	7	9	8	8	8
PFTZ	PFTZ	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	8	7	7	7	7	7	7	7	8	7	5	6	5	5	5	5	5	5	5	5	5	6
Total Co-Gen		23	25	25	22	22	23	24	24	24	25	23	24	21	24	29	21	22	23	19	13	16	18	24	27	26	34	27	24	18	15	13	26	23	25	32	28	29	29	30	27	27	27	25	24	27	26	25	28	
Total Gen		15342	14966	14516	14209	13817	13601	13364	13261	13104	13037	13133	13136	13271	13505	13145	13282	13873	14965	15539	16009	16395	16702	16932	16979	16839	16747	16719	17110	17532	17952	18107	18251	18318	18266	17754	17292	16855	16736	16933	17133	17623	17897	17890	17907	17555	17451	17148	16813	
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		31	31	30	-28	-28	-31	-28	-31	-30	-29	-29	-29	-29	-30	-28	-28	-28	-31	-28	-31	-29	-31	-29	-30	-30	-31	-28	-28	-28	-28	-28	-31	-28	-29	-29	-28	-30	-30	-29	-28	-28	-28	-29	-28	-28	-29	-28		
TIE-PLTG		15	-12	-12	-14	-41	-21	-21	-1	13	-9	0	13	22	-2	4	26	16	39	31	5	14	-10	5	25	12	15	26	-15	-19	27	44	46	34	25	35	1	-49	-24	17	15	-8	-11	-13	1	11	13	8	4	
Interconnection		46	19	17	-42	-69	-52	-50	-32	-17	-37	-29	-16	-6	-31	-26	-4	-13	11	3	-25	-14	-38	-23	-3	-19	-13	-5	-43	-49	-2	14	15	3	-3	6	-27	-77	-54	-11	-13	-37	-39	-43	-29	-18	-15	-20	-24	
System Total		15296	14947	14499	14251	13886	13653	13414	13293	13121	13074	13162	13152	13277	13536	13171	13286	13886	14954	15536	16034	16409	16740	16955	16982	16858	16760	16724	17153	17581	17954	18093	18236	18315	18269	17748	17319	16932	16790	16944	17146	17660	17936	17933	17936	17573	17466	17168	16837	
SRev ST-Coal		282	345	283	574	659	665	735	738	737	751	802	803	800	737	771	776	777	775	564	326	290																												