

Daily System Generation Summary on Monday

Monday, April 11, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,019 MW
Distillate	0 MW
Total TNB	2,019 MW
Total IPP	16,715 MW
Total Co-Gen	0 MW
Total System	23,013 MW

Generation Mix

Type	MWh	Percentage
Hydro	17,788	4.81 %
Gas	52,727	14.25 %
Total TNB	70,515	19.06 %
ST-Coal	198,449	53.64 %
LSS	3,305	0.89 %
Distillate	3,527	0.95 %
Gas	91,434	24.71 %
Total IPP	296,715	80.20 %
Co-Gen	1,136	0.31 %
Total Co-Gen	1,136	0.31 %
Total Generation	368,366	99.57 %
PLTG	-1,001	-0.27 %
HVDC	-594	-0.16 %
Interconnection	-1,595	-0.43 %
Net Energy	369,961	100.00 %

Maximum Demand Record

Date: 3/29/2022	18,840 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	15:00:00 Hour
Total Set On Bus	18,462 MW
TNB Generation	4,178 MW
IPP Generation	13,075 MW
Spinning Reserve	1,160 MW
Maximum Demand	17,466 MW
Net Energy	369,961 MWH
Load Factor	88.26 %

Fuel Cost

Total Cost:	99,145,413.19 RM
Cost per Unit	26.91 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	646
Hydro	423
Syncon	250
Thermal	115
Total	1,434

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	30
TJGS	157
Total TNB	187
CBPS	53
EMPP	203
NPRI	146
PCGP	75
PGLA	31
PLPS	48
SGRI	12
SKSP	17
SPGP	168
Total IPP	753
Total Gas	940
Total Gas Required	988

Alternate Fuel Usage

Station	(mmscfd)
PGLA	6
PGLA	6
PLPS	35
Total	47

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	15053	14275	13631	13249	12866	12935	13133	12991	13834	15487	16352	16904	16700	16420	17065	17466	17298	16641	16036	16055	16536	16649	16234	15808

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Sunday, May 8, 2022 11:07:46 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	555	552	562	607	608	607	505	507	507	506	505	504	504	602	604	605	612	697	699	711	708	708	708	704	705	706	705	705	704	706	707	705	705	705	706	707	706	708	706	705	706	705	706	705	707	705	707	705	707	
JMAH	U002	555	557	583	605	604	604	505	506	507	503	505	505	504	603	602	604	623	698	700	704	704	703	705	705	703	706	702	705	705	705	706	705	705	709	705	705	703	704	704	703	708	705	706	705	702	705	704	703		
JMHE	U002	983	978	976	901	830	828	828	831	830	831	830	831	831	831	827	832	832	927	984	978	974	980	980	979	973	981	978	981	986	981	978	979	979	982	977	981	982	980	984	980	975	980	976	981	981	977	983	981		
JMJG	U001	672	672	673	669	671	675	672	672	672	672	671	673	672	670	671	672	668	670	672	672	672	672	670	673	672	674	672	676	671	668	669	671	672	675	671	675	673	670	674	672	672	672	672	672	672	672	672			
JMJG	U002	553	551	555	557	557	555	538	533	527	557	551	549	552	550	548	545	552	551	552	548	551	552	548	549	548	550	552	547	548	550	552	547	548	552	549	551	548	552	551	558	546	550	551	551	552	551	553			
JMJG	U003	673	677	660	666	667	672	674	663	661	668	666	664	664	667	659	663	657	668	663	673	659	673	667	672	670	668	668	662	662	678	666	668	663	665	672	667	655	670	657	664	662	664	671	667	664	676	668			
JMJG	U004	749	747	746	745	745	749	747	746	748	746	747	747	751	749	748	748	748	748	747	746	747	749	744	746	744	746	747	746	746	749	747	748	745	747	747	747	746	744	746	744	744	746	746	746	744	744	747	748		
JMJG	U005	976	972	971	901	845	829	831	830	829	830	830	831	829	828	830	832	829	927	979	975	974	975	975	975	972	971	975	971	973	972	974	974	975	973	972	974	979	973	976	971	976	974	974	976	972	971	976	974		
PKLG	U003	147	146	147	147	146	147	147	146	147	146	148	147	148	148	148	149	148	147	147	151	154	153	152	153	152	151	152	152	150	153	153	153	153	153	153	153	153	153	153	152	153	151	153	152	153	152	152			
PKLG	U004	152	152	153	152	148	149	149	151	150	152	154	153	163	153	152	154	164	257	277	279	275	274	273	269	271	275	272	272	268	274	272	270	266	272	269	267	269	264	270	275	273	274	270	275	272	271				
PKLG	U005	271	268	267	269	267	269	268	269	267	268	268	269	267	269	271	268	324	370	416	445	471	468	469	470	466	482	467	463	464	468	466	465	464	464	467	468	465	459	466	464	466	465	470	470	469	473				
PKLG	U006	269	269	269	269	269	270	267	268	269	270	268	270	268	269	268	269	268	294	346	423	448	449	450	449	449	449	448	446	444	446	446	445	448	450	448	450	448	449	449	443	446	444	445	446	443	443	442	443	443	445
TBIN	U001	600	600	641	689	629	599	600	600	599	601	602	600	600	600	601	600	600	577	384	254	209	179	0	0	0	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	U003	602	602	621	692	664	602	603	604	603	602	601	600	602	600	605	600	693	690	702	698	700	701	697	701	701	705	698	702	702	702	700	700	697	708	702	699	703	699	701	704	699	701	699	701	699	701	699	701	702	
TBIN	U004	933	935	935	905	858	834	834	834	832	833	833	832	833	831	833	833	834	920	940	938	940	937	0	0	0	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-Coal		8690	8678	8759	8774	8508	8389	8168	8160	8147	8188	8179	8176	8187	8371	8359	8377	8400	8952	9080	9124	9133	9150	8048	8041	8031	8039	8045	8041	8038	8039	8035	8043	8027	8033	8051	8038	8034	8039	8030	8018	8032	8024	8025	8042	8034	8029	8051	8049		
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			
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		
CBPS	BLK2	362	360	354	360	361	352	354	355	358	361	362	360	362	361	353	363	363	370	370	362	362	362	361	360	360	353	362	353	360	360	357	362	363	354	357	298	300	305	303	350	362	364	362	320	300	280	223			
EMPP	BLK2	712	711	702	703	704	690	700	678	492	531	555	648	710	508	394	467	717	714	729	708	711	709	709	709	708	709	695	710	705	710	709	710	710	710	703	712	707	710	711	704	709	709	709	710	707	709	713	669		
EMPP	BLK3	713	711	701	703	704	690	699	705	705	703	704	704	705	706	684	468	718	714	729	708	712	710	709	709	707	709	695	710	705	712	709	710	711	710	704	713	708	710	711	705	709	710	710	710	707	709	713	671		
GLGR	GT02	109	109	109	109	93	93	93	93	94	93	93	93	93	93	93	93	108	108	108	108	108	108	108	108	108	107	108	107	108	107	106	108	108	93	93	92	94	93	92	93	93	93	93	92	92	93				
GLGR	ST1C	47	47	48	47	41	39	39	41	39	39	40	40	40	40	40	40	44	46	47	46	47	48	47	46	47	46	45	46	45	46	47	48	47	47	41	40	39	39	41	39	40	41	40	41	40					
NPRI	BLK1	524	520	518	525	523	512	518	524	524	524	523	525	525	526	509	525	527	530	525	523	515	526	524	525	521	518	510	524	518	523	517	518	520	522	515	520	397	398	398	393	485	503	505	504	502	503	449	318		
NPRI	BLK2	527	528	511	527	524	495	514	376	337	335	335	344	352	521	403	335	385	529	534	517	523	520	518	518	514	517	485	518	504	520	518	518	519	520	510	515	335	377	398	332	513	445	446	520	510	355	349	318		
PCGP	PGRG	567	450	262	262	261	262	352	261	260	261	261	260	261	264	263	263	267	462	624	605	609	603	603	603	598	602	585	602	593	605	603	603	604	605	590	600	503	502	605	601	601	599	601	603	597	601	599	602		
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	74	127	217	172	172	173	172	172	175	177	174	176	175	176		
PGLA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	20	49	98	132	133	133	132	133	133	133	141	202	221	226	187	177	227	176	177	176	175	170	0	0	0	0	0			
PGLA	ST10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	98	110	112	92	104	244	206	206	206	206	200	198	198	198	198				
PLPS	GT11	140	142	137	128	128	129	128	129	128	129	128	128	128	128	129	128	128	147	141	143	142	145	144	143	143	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	75	142	142	120	92	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	114	139	139	139	140	112	107	136	137	140	140	140	140	140	141	137	141	139	141	141	138	140	140	140	141	139	139	140	140		
PLPS	ST18																																																		

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																									
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	3	5	22	23	32	12	37	37	38	26	23	12	45	28	2	3	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0			
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	6	10	15	23	24	9	14	11	11	15	16	26	29	8	14	11	7	5	4	2	0	0	0	0	0	0	0	0	0	0	0		
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	3	2	3	4	2	2	5	10	14	13	15	21	18	14	12	13	10	6	10	6	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	19	71	127	198	272	343	420	416	445	448	494	496	486	493	436	423	251	247	186	151	96	55	34	10	4	0	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	20	19	19	21	23	22	22	21	22	21	20	21	20	20	21	20	23	23	23	24	21	22	21	20	21	20	21	21	21	19	20	20	19	21	21	21	21	21	21	24	23	24	21	22	21				
PCUF	CUFK	28	26	27	26	27	25	26	25	28	28	26	27	26	26	25	24	27	26	26	26	27	24	27	26	24	27	26	27	28	28	27	26	26	26	25	28	26	25	26	25	26	27	26	26	25	26			
Total Co-Gen		48	45	46	47	50	47	48	46	50	49	46	48	46	47	45	44	48	46	49	49	50	48	48	48	45	47	47	47	48	49	49	46	46	46	44	49	47	46	47	46	47	51	49	50	47	47	47		
Total Gen		15024	14609	14314	13867	13547	13332	13184	12976	12748	12797	12847	12938	13033	13179	12968	12955	13741	14851	15365	15949	16276	16565	16866	16939	16677	16333	16344	16735	16953	17250	17302	17310	17288	17093	16640	16267	15968	15931	16026	16069	16524	16620	16606	16504	16194	15973	15739	15429	
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	0	
TIE-HVDC		59	61	61	-29	-29	-29	-29	-29	-30	-30	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-97	-29	-29	-30	-30	-30	-30	-29	-29	-29	-29	-28	-28	-30	-30	-28	-28	-28	-28	-30	-30	-29	-29	-28	-28	-28	-28		
TIE-PLTG		-88	-54	-22	-83	-56	-11	-37	-16	-89	-73	-58	-60	-72	-34	6	-43	-64	-45	-93	-50	-47	-21	59	-5	6	-74	-46	-90	-83	-137	-135	-54	18	-16	27	-52	-39	-24	-1	-18	16	-21	-13	-74	-11	-53	-41	-31	
Interconnection		-29	7	39	-111	-84	-40	-65	-45	-118	-103	-88	-88	-100	-63	-23	-72	-93	-74	-122	-80	-76	-50	-38	-34	-23	-104	-76	-120	-112	-166	-164	-83	-10	-44	-1	-82	-68	-52	-29	-46	-12	-50	-43	-103	-40	-81	-69	-59	
System Total		15053	14602	14275	13978	13631	13372	13249	13021	12866	12900	12935	13026	13133	13242	12991	13027	13834	14925	15487	16029	16352	16615	16904	16973	16700	16437	16420	16855	17065	17416	17466	17393	17298	17137	16641	16349	16036	15983	16055	16115	16536	16670	16649	16607	16234	16054	15808	15488	
SRev ST-Coal		487	493	496	559	694	725	744	765	772	731	741	743	739	742	747	750	743	412	238	188	140	109	90	97	107	99	93	108	100	99	103	95	111	105	87	100	104	99	108	120	106	114	113	96	104	109	87	89	
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 CCGT-Gas		605	1016	1255	1402	1420	1503	1369	1597	1823	1788	1755	1660	1583	1621	1992	2076	1448	1053	887	898	539	410	525	278	310	613	683	550	475	447	547	336	314	738	968	1255	1548	1635	1504	1353	989	882	820	921	825	1125	1204	1500	
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	0
SRev 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	0	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	0	0
SRev Co-Gen		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syncon		313	313	313	588	588	588	676	676	676	676	676	676	676	676	676	676	676	588	500	500	500	500	0	0	126	126	126	126	126	126	126	126	126	126	126	126	313	313	313	313	313	313	313	313	313	313	313	313	313
Hydro		281	270	408	449	488	498	385	355	348	374	345	348	339	340	392	304	302	305	434	303	303	340	139	466	610	657	691	560	537	352	387	426	444	393	408	498	522	455	457	545	466	470	495	512	561	474	649	663	
S.Reserve Total		1686	2092	2472	2998	3190	3314	3174	3393	3619	3569	3517	3427	3337	3379	3807	3806	3169	2358	2059	1889	1482	1359	754	841	1153	1495	1594	1344	1272	1020	1160	980	995	1360	1778	2165	2486	2500	2380	2332	1872	1777	1795	1895	1856	2074	2308	2618	