

Daily System Generation Summary on Monday

Monday, February 21, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,438 MW
Distillate	0 MW
Total TNB	2,438 MW
Total IPP	16,880 MW
Total Co-Gen	0 MW
Total System	22,877 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,392	3.63 %
Gas	52,249	14.14 %
Total TNB	65,641	17.77 %
ST-Coal	208,609	56.48 %
LSS	4,771	1.29 %
Gas	90,621	24.53 %
Total IPP	304,001	82.30 %
Co-Gen	1,169	0.32 %
Total Co-Gen	1,169	0.32 %
Total Generation	370,811	100.39 %
PLTG	979	0.27 %
HVDC	450	0.12 %
Interconnection	1,429	0.39 %
Net Energy	369,382	100.00 %

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	15:30:00 Hour
Total Set On Bus	19,386 MW
TNB Generation	3,437 MW
IPP Generation	14,469 MW
Spinning Reserve	1,434 MW
Maximum Demand	17,864 MW
Net Energy	369,382 MWH
Load Factor	86.16 %

Fuel Cost

Total Cost:	87,000,763.00 RM
Cost per Unit	23.46 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	417
Hydro	651
Syncon	387
Thermal	257
Total	1,712

Time Weather Temperature

Afternoon	Hot	34
Morning	Cloudy	24

Gas Usage

Station	(mmscfd)
GLGR	54
TJGS	191
Total TNB	245
CBPS	53
EMPP	198
NPRI	80
PCGP	86
PGLA	79
PLPS	64
SKSP	26
SPGP	104
Total IPP	691
Total Gas	936
Total Gas Required	936

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	14433	13826	13266	12814	12492	12458	12579	13279	13479	15259	16059	16590	16557	16692	17380	17849	17813	17327	16262	15991	17097	16940	16353	15988

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, March 2, 2022 3:47:23 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	503	505	504	453	454	458	457	356	356	357	355	355	354	456	504	505	507	605	687	694	610	607	610	607	610	606	604	606	694	698	695	695	696	696	604	603	556	612	606	606	606	552	503	456	458	459		
JMAH	U002	505	505	504	453	454	458	455	355	355	358	357	356	355	454	505	505	504	605	698	695	604	606	606	604	503	502	507	606	605	690	697	696	696	693	695	602	595	556	613	608	605	605	607	553	497	454	457	458
JMHE	U001	975	892	898	853	798	799	798	799	801	804	798	801	804	801	799	800	802	905	966	973	975	978	975	977	981	975	982	973	976	975	976	978	976	978	974	978	975	978	975	981	978	974	975	978	979	973	974	
JMHE	U002	972	892	905	820	795	800	798	799	802	801	799	801	802	801	800	800	801	966	980	975	982	979	979	978	978	973	983	977	979	979	978	980	980	976	979	979	979	981	976	978	983	978	978	978	980	980	977	978
JMJG	U001	502	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508	600	598	598	600	595	596	596	645	662	672	671	673	673	672	670	672	668	672	673	671	674	669	673	672	673	671	672	670	676	672	672	
JMJG	U002	502	508	509	508	506	508	512	509	509	509	509	509	509	509	509	509	600	598	598	601	598	599	640	666	672	672	670	674	672	671	675	671	672	668	668	668	669	667	672	668	666	669	666	671	668	668	668	
JMJG	U004	857	858	858	834	804	803	805	806	806	806	806	806	806	806	806	806	848	856	856	854	855	854	853	856	855	854	855	855	857	859	857	859	859	857	858	858	859	856	858	857	856	857	857	859	856	855		
JMJG	U005	971	897	899	854	801	799	801	796	796	796	796	796	796	796	796	796	902	944	972	969	969	972	972	972	971	972	972	967	966	970	969	971	975	974	971	956	944	950	950	952	947	952	953	952	946	939	957	
PKLG	U004	272	273	282	275	274	269	275	280	274	259	181	141	148	148	149	220	262	276	276	273	280	279	276	276	202	238	269	272	275	273	277	279	279	275	275	270	271	274	269	274	279	275	276	274	277	277	283	
PKLG	U006	449	449	449	445	452	452	446	449	448	423	342	293	269	267	268	347	430	451	449	448	447	449	448	449	449	449	449	448	450	448	449	449	447	448	447	450	446	448	450	451	448	449	446	446	447	447	450	451
TBIN	U001	675	600	599	550	550	549	447	424	353	354	427	449	449	450	500	500	499	591	686	689	690	688	688	687	690	687	690	691	689	689	689	687	689	689	691	597	600	545	618	649	621	687	689	687	691	687	685	688
TBIN	U003	678	604	604	574	554	553	451	442	354	356	392	450	452	451	502	498	504	605	654	693	692	693	689	686	683	688	687	687	691	691	688	689	673	686	689	628	602	556	584	657	634	690	691	694	695	692	686	697
TBIN	U004	940	905	902	870	803	804	803	801	803	803	802	804	800	805	803	803	804	861	944	944	942	943	943	941	943	944	942	943	944	941	943	944	944	943	944	943	941	943	942	943	943	941	942	943	945	944		
Total ST-Coal		8801	8396	8421	7997	7753	7760	7556	7324	7165	7134	7072	7069	7052	7252	7449	7597	7915	8813	9336	9410	9241	9240	9235	9315	9091	9131	9188	9371	9384	9548	9567	9568	9552	9558	9558	9220	9169	8983	9180	9292	9249	9354	9358	9248	9160	9064	9043	9084
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	
CBPS	BLK2	354	355	361	362	358	354	354	353	352	279	289	361	365	358	362	362	354	354	348	341	355	356	358	358	353	348	348	348	360	355	363	357	363	365	356	362	353	346	353	363	365	362	361	363	360	360	349	358
EMPP	BLK2	708	708	708	708	708	708	708	708	708	708	708	708	708	708	708	709	705	695	683	698	711	709	699	598	598	598	598	600	601	600	598	601	606	600	600	584	588	579	686	721	707	711	709	706	707	691	704	
EMPP	BLK3	757	757	757	757	757	757	757	757	757	757	757	757	757	757	374	373	376	374	761	758	756	751	700	700	700	650	650	651	651	650	651	651	649	649	650	651	650	741	766	769	771	770	770	772	770	767		
GLGR	GT01	99	67	69	68	66	68	67	68	69	69	67	69	69	68	67	105	104	104	104	103	104	103	103	105	103	104	103	102	103	102	103	104	103	104	103	104	102	104	104	102	104	105	103	103	105	104	97	86
GLGR	GT02	98	67	68	69	68	69	68	69	68	68	68	68	68	69	68	106	104	105	104	104	104	104	104	104	104	105	103	102	103	102	103	103	103	103	104	102	104	104	103	104	104	104	104	104	104	97	84	
GLGR	ST1C	94	72	70	71	71	71	71	71	71	71	71	71	70	71	70	91	92	93	92	93	93	93	94	93	94	93	94	92	93	94	94	94	94	94	94	94	94	94	94	94	94	93	93	92	86			
NPRI	BLK2	518	518	528	528	519	521	514	517	515	528	524	527	533	528	528	527	520	521	514	501	517	527	535	533	530	530	528	504	519	518	519	518	516	514	517	518	504	502	499	518	523	519	515	518	516	511	501	511
PCGP	PGRG	592	595	603	601	591	593	583	588	586	601	597	602	613	605	601	596	592	592	583	567	587	599	595	586	594	575	586	583	603	602	603	602	601	607	601	602	584	578	579	602	615	605	598	602	600	592	583	593
PGLA	GT11	155	156	157	158	156	155	152	154	154	158	158	159	161	159	159	156	155	162	161	183	166	169	167	165	167	162	165	164	171	208	217	216	216	218	216	216	211	213	211	218	191	171	167	170	170	167	163	168
PGLA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	94	186	170	172	171	170	171	173	174	174	173	213	219	220	221	219	220	221	219	220	221	223	223	223	190	174	173	173	174	174	173	173
PGLA	ST10	87	88	87	86	87	88	87	87	85	87	89	88	88	88	88	88	87	87	83	202	201	206	206	205	205	206	206	207	207	223	242	241	242	241	240	238	234	235	236	225	203	203	203	203	202	202	203	
PLPS	GT11	0	0	0	0	0	0	0	45	45	45	46	45	45	46	46	70	151	146	145	145	145	142	139	135	135	133	137	138	137	136	137	137	137	137	132	131	108	134	139	139	129	134	116	117	107	107		
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	139	136	141	141	141	141	144	140	140	135	136	114	143	149	144	136	142	125	125	115	0
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	63	139	136	136	137	140	140	141	141	141	141	144	141	141	135	136	111	137	147	142	133	137	121	122	112	113
PLPS	ST18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	36	57	58	58	58	59	60	104	144	144	211	209	212	211	211	210	210	211	210	210	207	208	195	213	215	214	208	212	202	203	194		

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
HTRG	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-

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			
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	5	41	121	227	338	421	480	576	622	653	676	643	666	640	639	548	539	490	384	322	282	141	67	20	3	0	0	0	0	0	0	0	0	0
PCUF	CUFG	25	24	26	24	24	26	25	25	24	25	25	24	25	24	26	26	25	24	24	22	22	21	23	22	21	22	22	22	22	24	23	22	22	23	23	23	26	24	24	24	24	24	22	23	23	24	24			
PCUF	CUFK	26	24	27	24	25	25	26	27	26	26	26	26	25	24	24	26	25	26	27	26	26	25	24	23	24	22	25	23	28	24	25	24	25	26	24	26	22	24	23	26	28	26	24	26	24	26	24	26		
Total Co-Gen		51	48	53	48	49	51	51	52	50	51	51	50	50	48	50	52	50	50	51	48	48	46	47	45	45	44	47	45	50	48	48	46	47	49	47	49	45	50	47	50	52	50	50	48	48	47	49	48	50	
Total Gen		14428	14018	13872	13450	13349	13123	12874	12715	12537	12518	12537	12562	12594	12896	13311	13489	13540	14541	15348	15760	16072	16428	16635	16825	16582	16655	16743	17054	17387	17790	17905	17952	17895	17818	17441	16888	16364	16105	16117	16815	17091	17076	17022	16736	16445	16291	16048	15839		
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	0	0	0	0	0	30	31	31	30	30	29	29	30	30	29	29	30	30	29	29	30	1	0	0	0	0	0	0	0	0	29	29	30	30	29	29	29	31	29	31	31	31	31		
TIE-PLTG		25	60	17	16	52	60	60	42	45	19	48	9	-16	53	1	35	32	-7	59	26	-17	-15	15	32	-5	55	50	82	7	65	56	88	82	50	114	90	73	78	96	72	-34	20	51	28	61	37	29	62		
Interconnection		-5	31	46	47	83	60	60	42	45	19	79	40	15	83	32	64	61	23	89	55	13	15	45	62	25	85	51	82	7	65	56	88	82	50	114	119	102	108	126	102	-6	48	82	56	92	68	60	93		
System Total		14433	13987	13826	13403	13266	13063	12814	12673	12492	12499	12458	12522	12579	12813	13279	13425	13479	14518	15259	15705	16059	16413	16590	16763	16557	16570	16692	16972	17380	17725	17849	17864	17813	17768	17327	16769	16262	15997	15991	16713	17097	17028	16940	16680	16353	16223	15988	15746		
SRev ST-Coal		417	760	751	826	914	914	918	910	916	956	981	978	986	982	976	981	946	738	327	255	375	374	381	343	309	305	277	288	275	161	142	141	157	151	151	400	372	366	384	320	350	253	257	256	239	245	271	232		
SRev CCGT-Gas		622	698	779	827	709	855	893	964	979	1006	900	921	929	773	568	779	545	628	453	437	715	458	509	396	844	896	994	846	600	350	313	322	313	292	322	309	396	395	535	214	229	310	357	322	397	410	517	695		
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 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 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 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			
Syncon		601	601	702	702	601	702	702	702	702	702	702	702	702	601	601	702	702	702	702	313	500	500	500	500	500	313	313	313	313	313	126	126	126	313	414	702	702	702	515	328	328	328	515	515	515	702	702			
Hydro		340	266	347	292	369	357	364	364	366	328	353	303	271	298	293	375	376	312	313	375	477	319	293	371	315	395	496	487	392	700	550	671	672	673	768	707	360	367	362	359	439	453	465	386	433	357	283	212		
S.Reserve Total		2154	2499	2666	2734	2680	2915	2964	3027	3050	3079	3023	2991	2975	2842	2626	2823	2555	2554	1969	1943	2054	1825	1857	1784	2142	2270	2254	2108	1754	1698	1492	1434	1442	1416	1728	2004	2004	2004	2157	1582	1520	1518	1581	1653	1758	1701	1947	2015		