

Daily System Generation Summary on Monday

Monday, March 8, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,014 MW
Distillate	0 MW
Total TNB	2,014 MW
Total IPP	16,913 MW
Total Co-Gen	0 MW
Total System	21,770 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,926	3.57 %
Gas	37,636	10.39 %
Total TNB	50,562	13.96 %
ST-Coal	228,128	62.99 %
LSS	3,959	1.09 %
Gas	78,181	21.59 %
Total IPP	310,268	85.67 %
Co-Gen	253	0.07 %
Total Co-Gen	253	0.07 %
Total Generation	361,083	99.70 %
PLTG	-398	-0.11 %
HVDC	-701	-0.19 %
Interconnection	-1,099	-0.30 %
Net Energy	362,182	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:	16:00:00 Hour
Total Set On Bus	18,807 MW
TNB Generation	2,796 MW
IPP Generation	14,844 MW
Spinning Reserve	1,155 MW
Maximum Demand	17,692 MW
Net Energy	362,182 MWH
Load Factor	85.30 %

Fuel Cost

Total Cost:	44,537,517.70 RM
Cost per Unit	12.33 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	353
Hydro	401
Syncon	424
Thermal	265
Total	1,443

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	49
TJGS	98
Total TNB	147
CBPS	51
NPRI	144
PGLA	87
PLPS	64
SKSP	20
YPKA	41
Total IPP	407
Total Gas	554

Total Gas Required 554

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	13963	13139	12713	12288	11955	11993	12172	12461	13054	14954	15772	16391	16382	16173	16861	17407	17692	17311	16089	15771	17127	17047	16527	16205

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 6, 2021 11:41:08 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	598	503	503	545	552	552	524	500	500	501	501	501	499	502	499	500	502	605	601	604	601	692	693	693	692	691	701	691	694	692	693	692	694	692	690	695	601	603	601	696	692	691	693	693	690	692	691	694		
JMAH	U002	604	504	503	556	555	556	510	506	506	506	506	502	502	504	504	502	504	610	605	605	604	691	695	696	698	693	695	695	696	695	696	695	696	694	694	699	610	604	603	697	697	695	697	694	694	696	694	696		
JMHE	U001	903	900	835	797	802	800	802	796	801	801	801	800	797	801	799	803	801	802	803	900	956	979	979	980	978	976	980	980	978	977	980	980	978	981	979	980	980	984	973	979	980	985	981	975	980	981	978	979	980	981
JMHE	U002	903	898	822	797	800	802	801	794	802	801	801	803	799	801	801	800	801	800	801	803	901	961	981	979	982	976	976	980	978	980	980	980	981	981	983	973	981	980	984	983	976	981	980	979	978	980	980			
JMJG	U001	668	615	593	606	544	548	550	508	504	509	508	508	549	547	546	581	667	670	668	672	671	672	678	671	671	674	671	672	666	673	673	671	681	671	672	680	668	655	671	671	671	675	671	671	675	671	675	671		
JMJG	U002	675	609	600	598	544	546	542	494	498	502	512	501	507	548	548	548	579	585	620	677	668	654	668	673	674	673	671	671	670	672	672	672	673	671	671	671	671	672	669	669	671	674	669	672	673	673	673	673		
JMJG	U003	667	607	595	600	537	545	546	502	506	506	506	506	506	540	543	546	579	661	664	670	671	668	671	670	667	671	666	668	670	667	669	667	667	668	667	668	667	668	667	668	670	667	671	672	667	669	666	668	670	666
JMJG	U004	903	902	895	834	807	807	807	807	807	806	805	807	807	808	806	809	808	847	906	960	974	973	977	975	975	975	976	975	975	976	975	975	974	974	973	973	974	976	976	973	974	976	974	976	977	976	976			
JMJG	U005	799	801	800	801	804	795	806	796	801	800	800	803	798	800	804	801	799	803	801	801	798	800	800	800	800	801	800	801	803	801	804	799	799	801	801	801	801	801	798	804	804	801	801	804	801	803	803	801	801	
PKLG	U003	151	153	153	153	154	152	153	152	153	153	154	154	154	154	154	153	208	256	274	278	280	280	278	275	280	278	275	280	278	279	278	279	280	278	279	279	276	277	275	277	279	277	279	278	281	278	278	279		
PKLG	U004	150	154	152	152	152	153	150	147	147	149	148	152	218	252	276	285	277	274	275	273	278	275	275	277	271	279	277	278	276	276	276	276	276	275	189	157	191	255	275	275	280	272	279	278	278	277				
PKLG	U006	448	451	451	448	446	449	448	446	450	445	445	446	445	445	449	450	448	445	365	406	444	449	445	404	358	362	363	364	365	362	356	368	404	430	442	438	445	449	448	446	449	455	450	452	448	445	446	447		
TBIN	U001	689	645	651	600	600	550	552	551	550	552	552	551	547	602	598	618	652	691	689	691	691	689	691	687	689	690	691	691	689	689	689	689	687	690	688	692	690	690	691	689	690	689	689	688	688	689	691	689		
TBIN	U002	690	650	654	606	607	553	553	553	552	555	553	552	603	601	638	647	695	689	689	694	692	693	694	691	692	690	689	694	691	690	690	690	687	692	695	688	690	689	691	691	692	690	694	688	691	689	685			
TBIN	U003	692	653	655	604	604	553	552	552	553	553	554	552	604	604	655	650	692	691	692	693	694	690	693	694	692	693	692	693	691	692	692	691	693	689	695	690	692	690	692	691	689	691	691	687	690	690	691			
Total ST-Coal		9540	9045	8862	8697	8508	8361	8296	8106	8132	8131	8147	8137	8125	8412	8406	8519	8655	9330	9415	9814	9990	10190	10205	10175	10117	10119	10133	10118	10137	10114	10124	10129	10165	10186	10196	10218	9826	9779	9834	10195	10214	10204	10215	10211	10202	10211	10212	10206		
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				
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				
CBPS	BLK2	352	358	350	355	358	361	355	279	216	222	223	221	228	220	216	295	349	351	360	351	357	357	362	362	354	351	359	359	359	359	359	362	361	361	352	348	361	359	362	359	362	355	359	357	345	360	360	349		
EMPP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	192	209	254	376	374	364	274	725	726	730	731	744	739	744	747	744	740	741	751	366				
GLGR	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	25	35	52	83	109	107	106	107	105	106	104	105	106	106	106	106	106	105	106	107	105	106	107	107	107	105	106	106	106	106	106	107	106				
GLGR	GT02	108	108	107	108	108	108	108	108	108	108	108	108	108	108	104	95	90	108	107	107	106	107	106	106	106	106	106	106	105	106	106	105	106	106	106	106	106	106	106	106	106	106	106	106	107					
GLGR	ST1C	45	45	45	45	45	46	45	45	45	45	44	45	44	44	41	36	94	95	96	96	95	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96				
NPRI	BLK1	506	506	506	506	504	504	505	505	505	505	504	505	506	504	505	505	506	506	505	505	515	506	503	504	494	492	501	503	503	506	500	505	506	504	497	493	500	501	506	506	505	496	502	494	487	500	500	493		
NPRI	BLK2	432	430	419	427	440	440	431	435	430	326	320	322	334	440	428	430	424	427	437	432	436	440	438	440	430	427	435	439	437	442	436	441	442	440	431	428	436	439	441	442	440	432	437	430	422	436	436	428		
PCGP	PGRG	591	589	575	585	598	603	589	600	589	603	602	605	617	603	585	589	581	584	597	592	597	603	601	601	587	583	596	600	597	604	597	601	601	599	585	584	595	597	603	604	602	589	599	587	574	596	594	585		
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	139	216	264	216	198	170	184	218	213	211	167	214	215	216	215	216	216	215	212	163	167	166	169	215	216	214	215	212	202	185	167	213			
PGLA	GT12	162	163	157	160	165	164	161	163	161	165	164	166	171	165	161	162	160	166	238	218	202	174	187	222	216	214	218	218	219	218	215	167	169	169	171	219	218	216	218	215	205	187	170	215						
PGLA	ST10	90	90	88	90	90	90	89	89	90	90	90	89	92	90	89	85	81	125	146	237	236	211	208	237	239	239	206	241	241	240	240	241	241	241	238	201	208	205	241	239	240	238	235	218	207	237				
PLPS	GT11	128	128	129	129	128	128	129	128	128	129	128	129	128	129	128	129	123	125	130	126	130	140	135	120	110	111	117	120	116	132	127	116	139	138	135	102	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	69	144	140	125	115	115	120	124	121	135	132	119	144	144	139	115	125	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	65	143	138	142	137	134	117	110	109	112	115																					

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
CEND	HY03	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	9	10	10	10	10	10	10	10
CEND	HY04	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	8	8	8	8	8	8	8
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
HTRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36	36	36	36	36
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	37	37	37	37	37
KNRG	HY03	38	38	38	38	38	38	23	23	24	24	25	24	23	23	23	23	36	36	36	36	36	36	36	36
KNYR	HY02	59	70	56	58	59	72	57	97	60	86	88	97	102	94	57	96	94	93	93	97	99	99	99	99
KNYR	HY03	57	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	98	97	95	93	93	93	97	99	99	99	99	99	99
KNYR	HY04	59	58	54	0	0	0	0	0	0	0	104	99	98	96	94	94	93	97	100	100	100	100	99	59
LPIA	HY01	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	15	15
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	15	15
MNOR	HY01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3
PGAU	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
PGAU	HY02	-1	-1	-1	16	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	50	51	51	51	50	50	50
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY01	61	60	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	37	37	37	37	35	35	37	37
TMGR	HY02	46	57	40	43	55	65	44	91	43	85	81	90	91	84	43	43	43	44	76	44	0	0	0	0
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	59	59	26	29	32	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	92	92	102	97	86	-1
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
UPIA	HY02	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 Hydro		466	428	299	271	269	291	223	311	199	267	266	284	416	473	412	425	420	469	503	483	519	541	583	606
Total 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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8	16	19	20	22	25
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	7	11	16	23	27	30
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	13	18	24	16	30	28
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8	19	24	30	37	41	44
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	19	28	28	41	28	33
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	10	13	11	28	26	30
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	15	21	32	40	44	24
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	12	19	26	31	34	42	50
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	18	24	17	40	23	44
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	6	19	23	26	30	28
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	12	18	23	35	38	36
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	8	21	32	38	46	50	51
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	14	23	29	30	37	40
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12	17	20	21	19	29
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	39	106	199	295	353	427	468

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	7	7	7	6	7	7	7	7	8	7	7	6	7	10	7	6	8	6	6	6	7	7	6	8	7	6	6	7	7	7	7	7	8	7	7	6	7	7	6	7	7	7	7	6	5	7	7	
PCUF	CUFK	4	4	3	3	5	4	4	1	4	4	3	4	3	4	4	4	4	3	3	4	4	5	3	5	5	4	4	3	3	3	3	3	5	3	3	4	3	4	3	6	6	4	4	2	3	3	4	5
Total Co-Gen		11	11	10	9	12	11	11	8	12	11	10	10	10	14	11	10	12	9	9	10	11	12	9	13	12	10	10	9	10	10	10	10	12	11	10	11	9	11	10	12	13	11	11	9	9	8	11	12
Total Gen		13903	13384	13080	12940	12661	12548	12250	12090	11922	11915	11924	11930	12094	12521	12419	12635	12982	14254	14879	15338	15716	16106	16323	16459	16324	16120	16083	16427	16810	17202	17388	17458	17652	17593	17289	16563	16141	15739	15770	16468	17088	17081	16990	16775	16492	16359	16139	15775
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		
TIE-HVDC		-29	-19	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29		
TIE-PLTG		-27	-17	-27	-6	-19	-26	-6	35	-1	-42	-37	-23	-45	-9	-10	-47	-40	-24	-43	-33	-23	-58	-36	-90	-25	-4	-58	-32	-19	-25	13	18	-8	10	29	84	22	33	-83	-6	9	-24	-3	-4	-24	-34	-22	
Interconnection		-56	-46	-56	-36	-49	-55	-35	7	-30	-71	-66	-52	-75	-38	-39	-76	-69	-54	-72	-62	-53	-88	-65	-119	-55	-34	-87	-61	-48	-54	-16	-12	-37	-19	0	55	-7	3	-112	-35	-22	-54	-33	-32	-54	-63	-52	
System Total		13963	13433	13139	12979	12713	12606	12288	12086	11955	11989	11993	11985	12172	12562	12461	12714	13054	14311	14954	15403	15772	16197	16391	16581	16382	16157	16173	16491	16861	17259	17407	17473	17692	17615	17311	16566	16089	15750	15771	16584	17127	17106	17047	16811	16527	16416	16205	15830
SRev ST-Coal		590	859	849	920	919	926	915	930	918	925	925	916	925	924	918	883	860	648	732	536	356	211	196	206	264	262	248	263	244	267	262	257	221	200	185	173	368	359	369	195	177	187	176	180	189	180	179	185
SRev CCGT-Gas		442	428	419	365	456	443	608	663	749	822	827	829	785	706	843	984	938	597	562	521	587	538	416	279	381	480	872	540	496	367	221	248	170	175	244	844	533	584	553	315	230	279	217	343	451	489	588	525
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		615	716	803	652	803	803	890	890	890	890	890	890	789	789	638	789	789	789	789	789	615	464	615	464	464	464	464	464	464	277	277	277	277	277	403	741	842	842	842	655	126	126	403	403	554	741	842	842
Hydro		258	196	238	317	168	146	127	39	151	83	84	66	135	78	290	126	131	132	98	118	169	298	230	358	365	491	481	478	464	382	421	444	492	494	566	193	188	192	190	302	632	634	524	504	429	296	350	387
S.Reserve Total		1905	2199	2309	2254	2346	2318	2540	2522	2708	2720	2726	2701	2634	2497	2689	2782	2718	2166	2181	1964	1727	1511	1457	1307	1474	1697	2065	1745	1668	1293	1181	1226	1160	1146	1398	1951	1931	1977	1954	1467	1165	1226	1320	1430	1623	1756	1959	1939