

Daily System Generation Summary on Monday

Monday, December 21, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,522 MW
Distillate	0 MW
Total TNB	2,522 MW
Total IPP	16,133 MW
Total Co-Gen	0 MW
Total System	21,355 MW

Generation Mix

Type	MWh	Percentage
Hydro	19,831	5.78 %
Gas	35,659	10.39 %
Total TNB	55,490	16.17 %
ST-Coal	200,166	58.32 %
LSS	2,677	0.78 %
Gas	85,428	24.89 %
Total IPP	288,271	84.00 %
Co-Gen	165	0.05 %
Total Co-Gen	165	0.05 %
Total Generation	343,926	100.21 %
PLTG	102	0.03 %
HVDC	630	0.18 %
Interconnection	732	0.21 %
Net Energy	343,194	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	17,568 MW
TNB Generation	3,303 MW
IPP Generation	13,039 MW
Spinning Reserve	1,220 MW
Maximum Demand	16,358 MW
Net Energy	343,194 MWH
Load Factor	87.42 %

Fuel Cost

Total Cost:	41,382,629.25 RM
Cost per Unit	12.03 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	241
Hydro	604
Syncon	397
Thermal	146
Total	1,388

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	46
TJGS	205
Total TNB	251
CBPS	52
NPRI	158
PGLA	92
PLPS	86
SGB3	63
YPKA	48
Total IPP	499
Total Gas	749
Total Gas Required	749

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	13046	12544	12093	11796	11547	11562	11668	12088	12719	14549	15321	15835	15849	15563	16040	16319	16358	15936	15123	15113	15966	15663	15063	14723

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, January 5, 2021 10:23:39 AM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

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	690	692	694	695	691	689	691	693	691	692	693	692	692	692	693	692	693	693	692	692	695	691	693	692	691	694	694	693	694	691				
JMAH	U002	693	693	694	694	692	692	695	691	693	694	693	694	688	691	693	696	692	692	694	695	692	689	696	696	695	694	691	694	694	692	694			
JMHE	U001	936	940	800	802	800	802	801	802	796	802	804	798	795	799	801	799	799	808	979	979	980	976	980	977	977	979	980	979	980	981	979	980		
JMJG	U002	672	672	675	673	671	673	671	671	670	668	673	674	673	671	667	678	671	676	676	675	677	668	667	671	672	672	675	671	668	668	670	671		
JMJG	U004	925	926	877	817	803	804	804	804	804	805	803	804	804	803	805	861	918	971	973	970	970	971	974	972	972	971	972	971	974	972	971	972		
PKLG	U003	280	280	280	280	281	280	274	278	280	280	281	279	281	280	279	279	279	280	281	281	280	280	281	281	278	279	279	281	279	280	280	279		
PKLG	U004	277	279	278	278	277	274	278	278	276	278	281	279	282	280	277	279	279	278	278	279	279	281	280	279	280	279	278	279	279	279	275	276		
PKLG	U005	467	466	468	468	464	467	468	468	468	466	468	467	468	466	466	466	466	466	466	466	466	466	466	466	468	469	468	468	468	467	467	467		
PKLG	U006	448	449	448	449	445	447	448	449	449	448	448	447	445	449	447	445	449	449	447	447	447	445	448	449	449	449	449	449	449	449	452	449		
TBIN	U001	614	686	691	692	689	689	687	691	690	692	690	692	690	685	690	688	690	687	692	690	689	690	689	688	689	690	691	689	691	686	691	686		
TBIN	U002	690	691	693	696	692	692	691	693	693	693	694	689	699	693	691	693	693	694	692	691	694	687	692	693	691	693	696	694	693	693	694	692		
TBIN	U003	688	694	693	691	692	692	692	687	690	691	693	692	691	691	691	689	690	692	692	690	693	694	689	692	692	692	692	693	691	689	691	664		
TBIN	U004	923	922	844	803	802	804	803	803	803	801	803	801	801	803	802	803	805	892	980	965	902	903	904	903	904	983	981	982	983	983	982	981		
Total ST-Coal		8303	8390	8135	8038	7999	8005	8003	8008	8003	8009	8026	8007	8009	8004	8001	8013	8001	8027	8344	8484	8528	8450	8450	8451	8462	8473	8544	8534	8541	8541	8540	8541		
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		
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		
CBPS	BLK2	346	361	368	361	363	347	223	223	216	224	217	220	222	228	301	340	362	369	362	362	362	366	366	366	362	362	362	364	364	363	363	363		
GLGR	GT01	107	108	97	94	96	94	94	96	95	96	95	95	95	95	96	96	95	96	94	92	109	106	108	107	100	100	100	100	99	100	100	101		
GLGR	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	70	37	90	108	108	107	107	100	100	101	100	101	100	100	101		
GLGR	ST1C	44	44	40	40	40	40	39	40	39	40	41	39	39	41	41	41	39	37	55	96	96	97	97	91	91	91	91	91	91	91	91	91		
NPRI	BLK1	493	516	519	515	515	515	515	517	502	438	473	473	512	515	511	515	515	516	512	519	517	514	514	516	515	515	515	517	515	516	515	518		
NPRI	BLK2	493	517	521	517	517	516	515	518	504	517	511	515	518	512	518	523	515	516	518	513	523	518	516	515	516	517	518	517	517	517	516	520		
PCGP	PGRG	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	603	602	603	604	605		
PGLA	GT11	216	224	158	156	156	157	156	158	153	157	156	157	157	160	167	169	232	220	216	216	216	216	214	212	211	211	212	212	212	213	214	214		
PGLA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	145	230	223	219	220	220	218	218	215	216	216	216	216	216	217	216	218		
PGLA	ST10	113	114	91	91	91	91	90	90	91	92	91	91	91	91	92	89	244	242	240	240	241	243	241	238	239	239	238	239	239	239	237	238		
PLPS	GT11	142	145	129	128	129	129	128	128	124	129	129	128	129	129	129	129	127	130	130	130	130	140	137	137	137	137	137	137	137	137	131	142		
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	142	144	141	141	141	141	141	141	141	142	140		
PLPS	GT13	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	62	145	145	145	146	136	133	133	134	132	133	133	134	134	133	133		
PLPS	ST18	142	61	58	58	57	57	56	57	56	56	58	57	58	58	57	57	59	56	143	142	142	204	212	210	209	210	208	210	211	210	210	209		
SGB3	GT31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	139	138	138	138	138	139	139	139	139	131	131	131		
SGB3	GT32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77	143	143	143	145	145	145	145	145	136		
SGB3	GT33	0	0	0	0	0	0	0	0	0	0	0	0	30	27	27	28	68	81	144	147	145	145	145	145	145	145	144	144	134	136	135	135		
SGB3	ST34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	29	35	61	74	144	135	152	219	219	220	220	220	220	216	216	196		
TJGS	GT1A	129	157	172	184	173	197	193	152	133	141	141	147	149	227	236	225	226	232	194	217	225	225	230	232	230	232	228	229	223	227	211	232		
TJGS	GT1B	116	143	161	171	166	184	185	143	122	127	130	139	137	212	217	213	214	222	184	208	214	209	222	211	213	210	214	218	215	211	205	212		
TJGS	ST1C	172	181	214	225	213	192	216	174	175	175	175	175	178	222	231	241	246	249	234	244	251	245	252	242	229	239	247	251	251	251	244	250		
TJGS	GT2A	215	215	213	181	184	126	129	129	129	126	128	125	128	126	127	128	167	215	215	215	215	214	214	216	214	214	214	214	214	213	213	213	215	
TJGS	GT2B	211	211	211	181	183	125	125	125	125	125	125	125	125	125	125	123	166	212	212	212	212	212	212	212	212	212	212	211	211	211	211	211	211	
TJGS	ST2C	257	257	257	235	235	202	200	200	200	200	200	200	200	200	200	207	256	256	256	256	256	256	256	256	258	258	258	258	258	257	257	257	257	
YPKA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	100	
YPKA	GT12	127	127	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	100	
YPKA	ST10	58	58	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	100
Total CCGT-Gas		4107	4041	3916	3844	3825	3679	3571	3457	3371	3342	3342	3393	3431	3675	3799	3953	4402	4758	5067	5252	5461	5757	5801	5851	5940	5950	5961	5978	5970	5965	5936	5941		
Total 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	
BSIA	HY01	0	0	0	0	0</																													

2 of 3

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
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	2	4	4	4	4	2	2	3	3	4	5	3	4	5	2	3	4	4	3	5	3	3	4	4
PCUF	CUFK	3	2	3	3	4	3	2	3	3	4	4	1	4	3	1	2	3	3	4	5	4	3	4	3
Total Co-Gen		5	6	7	7	8	5	4	6	6	8	9	4	8	8	3	5	7	7	8	9	8	7	6	9
Total Gen		13099	12822	12529	12311	12130	11986	11875	11744	11638	11589	11602	11630	11674	11928	12101	12269	12737	13790	14549	14939	15289	15637	15865	16068
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
TIE-HVDC		-30	-29	-29	30	29	29	31	30	30	30	31	31	30	31	30	29	31	29	29	29	29	31	31	29
TIE-PLTG		90	97	21	59	15	13	55	-11	68	-11	17	32	-18	-22	-11	0	-6	-34	-24	-13	-54	-25	8	21
Interconnection		60	68	-8	89	44	42	86	19	98	18	47	63	13	8	20	30	25	-4	7	16	-25	6	37	52
System Total		13046	12761	12544	12229	12093	11951	11796	11732	11547	11578	11562	11574	11668	11927	12088	12246	12719	13801	14549	14930	15321	15638	15835	16023
SRev ST-Coal		172	85	249	450	472	469	469	465	470	462	447	464	461	468	472	459	471	447	275	191	147	125	125	124
SRev CCGT-Gas		553	411	519	591	610	756	864	978	1064	1093	1093	1042	1147	903	1010	856	610	697	458	273	497	201	157	250
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
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
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
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
Syncon		840	1027	1027	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178
Hydro		412	249	223	121	120	121	121	145	160	108	113	112	112	137	120	121	118	610	386	553	476	536	441	525
S.Reserve Total		1977	1772	2018	2340	2380	2524	2632	2766	2872	2841	2831	2796	2898	2686	2780	2614	2377	1905	1421	1168	1422	1164	1025	1288