

Daily System Generation Summary on Monday

Monday, December 6, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,513 MW
Distillate	0 MW
Total TNB	2,513 MW
Total IPP	15,290 MW
Total Co-Gen	0 MW
Total System	20,646 MW

Generation Mix

Type	MWh	Percentage
Hydro	19,371	5.46 %
Gas	41,035	11.56 %
Total TNB	60,406	17.02 %
ST-Coal	206,709	58.23 %
LSS	2,712	0.76 %
Gas	83,221	23.44 %
Total IPP	292,642	82.43 %
Co-Gen	1,227	0.35 %
Total Co-Gen	1,227	0.35 %
Total Generation	354,275	99.80 %
PLTG	-115	-0.03 %
HVDC	-612	-0.17 %
Interconnection	-727	-0.20 %
Net Energy	355,002	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	17,898 MW
TNB Generation	3,659 MW
IPP Generation	13,280 MW
Spinning Reserve	910 MW
Maximum Demand	17,021 MW
Net Energy	355,002 MWH
Load Factor	86.90 %

Fuel Cost

Total Cost:	76,121,723.87 RM
Cost per Unit	21.49 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	270
Hydro	569
Syncon	317
Thermal	108
Total	1,264

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	23

Gas Usage

Station	(mmscfd)
GLGR	45
PGPS	34
TJGS	98
Total TNB	176
CBPS	53
NPRI	160
PGLA	105
PLPS	94
SGB3	35
SKSP	38
Total IPP	487
Total Gas	663
Total Gas Required	663

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	13668	12998	12599	12129	11899	11821	12114	12328	13146	14888	15699	16226	16181	16016	16616	16966	17021	16550	15640	15935	16547	16282	15654	15116

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, January 3, 2022 12:34:03 PM 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	695	696	696	697	696	697	656	602	553	553	555	555	587	605	604	655	655	696	695	696	696	697	697	696	695
JMAH	U002	697	694	697	697	698	696	655	604	555	555	552	557	586	591	604	655	656	696	698	697	693	694	697	696	696
JMHE	U001	501	500	504	502	500	502	502	499	504	499	499	498	502	502	498	499	500	601	600	693	762	904	960	976	981
JMJG	U001	673	673	673	673	673	673	673	673	673	673	673	673	673	669	671	671	671	669	671	673	673	670	671	670	669
JMJG	U002	662	662	662	662	662	662	662	662	662	662	662	662	662	660	671	673	673	672	671	673	673	671	673	671	673
JMJG	U003	667	667	667	667	667	667	667	667	667	667	667	667	667	664	663	667	668	580	666	663	667	667	671	667	671
JMJG	U004	950	950	850	850	850	850	850	850	850	850	850	850	850	850	850	850	950	950	950	950	950	950	950	950	952
JMJG	U005	890	890	850	850	850	850	850	850	850	850	850	850	890	890	890	890	890	890	890	890	890	891	891	890	888
PKLG	U003	152	154	154	154	154	155	155	154	154	155	154	154	154	155	155	202	279	278	278	281	280	279	278	279	278
PKLG	U004	141	139	136	140	141	138	137	140	141	139	141	139	139	139	140	140	141	143	141	141	140	140	139	141	143
PKLG	U006	437	376	280	270	268	269	268	269	270	267	269	267	270	268	267	269	303	391	441	450	447	449	449	446	449
TBIN	U001	689	670	650	644	599	550	500	500	501	483	451	451	450	505	498	550	550	690	689	689	689	687	691	690	689
TBIN	U002	691	684	652	650	618	553	506	500	503	484	454	454	455	506	502	549	553	695	690	691	690	690	687	691	692
TBIN	U003	688	656	651	643	609	556	503	502	501	493	456	454	454	508	503	561	554	694	690	690	692	693	692	692	690
Total ST-Coal		8533	8411	8122	8099	7985	7818	7585	7473	7380	7334	7231	7233	7299	7480	7463	7737	7824	8594	8683	8871	8941	9089	9133	9160	9161
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
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
CBPS	BLK2	362	354	361	354	361	361	355	361	354	300	319	369	370	354	349	287	344	366	366	360	359	360	358	360	361
GLGR	GT01	96	95	96	95	94	94	94	95	96	95	97	96	96	100	100	101	98	108	107	107	106	107	91	92	78
GLGR	GT02	0	0	0	0	0	0	0	0	0	0	0	0	25	43	70	99	107	107	109	108	108	92	93	76	68
GLGR	ST1C	40	40	41	40	40	40	41	41	41	40	41	41	41	42	41	43	40	95	96	96	95	96	88	87	83
NPRI	BLK1	514	509	520	503	514	515	509	515	508	508	516	514	527	510	499	499	519	518	517	517	508	511	511	515	511
NPRI	BLK2	511	505	523	487	516	518	512	518	497	511	518	518	536	508	482	479	520	521	518	517	500	513	512	518	499
PCGP	PGRG	605	597	608	591	602	602	594	603	598	593	603	602	617	599	583	586	601	603	588	598	587	589	590	601	592
PGLA	GT11	194	167	172	166	169	169	167	170	167	166	170	169	172	168	164	164	168	169	217	217	214	215	215	217	214
PGLA	GT12	198	171	177	169	174	172	170	173	171	171	173	173	176	172	168	168	173	173	222	221	218	218	217	220	219
PGLA	ST10	231	202	204	203	205	204	204	204	203	203	203	203	205	203	202	200	203	204	228	237	238	237	237	237	235
PGPS	GT3A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	79	83	94	94	94	89
PGPS	GT3B	0	0	0	0	0	0	0	53	69	69	69	69	70	75	75	95	95	95	95	85	81	94	94	94	91
PGPS	ST3C	0	0	0	0	0	0	0	0	0	0	0	0	7	30	41	43	43	43	44	35	60	90	90	90	91
PLPS	GT11	113	112	113	109	113	113	114	113	110	109	113	114	117	109	109	108	112	113	107	113	117	109	111	111	109
PLPS	GT12	120	119	120	115	120	119	115	119	116	115	119	120	124	115	115	115	120	118	116	116	123	116	115	117	115
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	120	113	114	115	113	114
PLPS	ST18	130	129	131	130	131	131	131	131	131	130	130	130	132	129	129	129	131	132	130	127	199	194	193	194	193
SGB3	GT31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	GT33	0	0	0	0	0	0	0	0	0	31	29	29	29	29	67	143	144	144	143	143	142	142	142	140	142
SGB3	ST34	0	0	0	0	0	0	0	0	0	0	0	0	12	34	65	65	65	65	65	64	64	64	64	63	63
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	40	94	297	349	342	334	314	295	294	325	286	288
SPGP	BLK1	718	718	717	719	719	720	717	718	720	720	721	720	719	720	717	720	718	718	718	718	718	716	718	718	718
TJGS	GT1A	227	229	229	183	129	126	129	129	127	127	129	128	140	182	178	119	127	215	228	226	228	226	228	226	227
TJGS	GT1B	213	214	215	169	115	116	114	117	114	116	114	116	129	168	164	105	114	199	216	215	215	215	214	217	215
TJGS	ST1C	242	242	242	208	162	162	159	159	159	159	159	159	159	201	201	160	160	198	242	242	242	242	242	242	242
Total CCGT-Gas		4514	4403	4469	4241	4164	4162	4125	4219	4181	4163	4223	4270	4359	4428	4490	4491	4893	5253	5411	5560	5614	5612	5624	5687	5569
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
BSIA	HY01	21	21	21	21	21	21	21	0	0	0	0	0	0	0	0	0	0	11	11	11	21	21	21	21	21
BSIA	HY02	23	23	23	22	22	22	22	11	11	11	11	12	12	11	11	11	11	12	11	11	22	22	22	22	23
BSIA	HY03	22	22	23	22	22	22	22	0	0	0	0	0	0	0	0	0	0	12	11	11	11	11	11	11	11

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	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY02	8	8	9	8	8	9	9	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	120	119	120	120	119	-1	-1	
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	123	-1	63	63	63	63	63	118	118	
HTRG	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
HTRG	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
KNRG	HY01	34	34	34	34	34	34	34	34	24	24	24	24	24	24	34	34	34	34	35	34	35	34	34	35	
KNRG	HY02	35	35	36	35	35	35	35	35	23	22	23	23	24	22	36	36	36	36	36	35	35	36	36	35	
KNRG	HY03	35	35	35	35	35	35	35	35	21	21	22	22	22	21	35	35	35	35	35	35	35	35	35	35	
KNYR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	56	57	57	96	96	96	95	95	95	95	95	
KNYR	HY02	58	0	0	0	0	0	0	0	0	0	0	0	0	18	58	59	59	58	59	59	98	94	98	98	
KNYR	HY03	51	53	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	55	50	50	97	97	97	97	97	97	97	97	
KNYR	HY04	62	75	77	58	62	60	66	63	59	56	59	91	101	60	58	56	81	101	58	86	59	58	59	59	
LPIA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	18	15	12	12	16	16	17	18	19	19	21	
LPIA	HY02	23	23	23	23	23	23	23	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	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	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19	19		
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	0	0	0	0	31	50	48	48	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	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	50	50	50	50	
SYPS	HY01	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	
SYPS	HY02	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY04	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TMGR	HY01	34	0	0	0	0	0	0	0	0	0	0	0	0	32	34	32	82	81	32	34	34	80	81	81	
TMGR	HY02	36	36	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	34	36	34	86	85	34	35	36	36	36	
TMGR	HY03	46	46	45	44	46	46	45	46	46	46	46	44	44	44	46	44	45	45	46	46	48	81	81	81	
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	31	75	51	52	48	80	40	41	60	83		
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	86	91	86	-1	-1	-1	91	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UPIA	HY01	6	5	5	5	6	5	5	5	6	5	6	5	6	6	5	6	5	6	5	6	5	6	6	6	
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Total Hydro		605	527	389	365	372	370	375	318	278	273	279	313	323	302	272	271	297	315	520	672	743	1007	1089	1107	963
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	0
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	5	7	16	15	12	27	14	19	25
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	11	16	12	16	16	17	18	22	16	31
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	8	10	18	21	21	20	23	22	30	32
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	11	17	13	21	18	32	27	34	24	32
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	10	15	15	10	12	18	20	19	17	6
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	16	18	31	26	25	33	31	28	41	33
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	9	16	16	15	5	11	31	50	23
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	11	15	19	20	33	28	37	28	36	30
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	12	13	23	17	23	28	19	21	28	26
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	16	25	29	29	44	45	50	50	48	43
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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																									
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	12	12	45	25	25	40	52	33	52	52	30	36	52	51	39	30	35	30	16	8	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	1	3	7	10	11	16	22	24	26	28	29	24	23	19	22	26	22	10	10	9	6	4	3	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	1	3	6	8	13	21	16	15	13	21	21	23	22	16	10	9	7	10	8	5	3	0	0	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	1	3	6	9	13	24	29	30	30	30	23	20	29	23	10	30	12	6	7	5	3	2	2	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	8	45	87	157	205	298	297	304	373	401	397	402	422	360	271	311	291	237	194	153	112	70	37	2	1	0	0	0	0	0	0	0	0	0		
PCUF	CUFG	23	24	27	27	27	26	25	25	26	26	24	26	25	25	25	23	23	22	23	23	24	24	24	24	24	25	25	26	23	24	23	25	24	25	25	26	25	25	26	27	28	28	27	29	28				
PCUF	CUFK	25	26	25	27	24	28	26	27	27	25	27	25	25	28	25	27	27	24	26	25	26	28	27	25	25	28	25	24	26	24	26	26	25	24	24	25	26	27	28	27	27	26	27	25	25	27	26		
Total Co-Gen		48	50	52	54	51	55	52	52	52	51	53	51	49	54	50	52	52	49	49	48	48	47	51	51	49	49	53	50	50	49	48	49	51	49	49	51	52	53	53	54	54	55	53	52	56	54			
Total Gen		13700	13391	13032	12759	12572	12405	12137	12062	11891	11821	11786	11867	12030	12264	12275	12559	13111	14301	14820	15357	15644	16053	16197	16378	16145	16031	15964	16285	16523	16922	16921	16937	16988	16938	16553	15967	15646	15511	15942	16639	16506	16409	16252	15976	15645	15310	15101	14839	
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	30	30	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-28	-28	-28	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-30	-30	-29	-29	-30	-30	-29	-29	-29	-29	-29	-30	-30	-30	-30	-29	-29	-29	-29	-29	-29		
TIE-PLTG		2	48	4	12	1	-14	37	-13	21	56	-6	-22	-55	-18	-25	30	-6	-26	-38	-49	-26	-22	1	-70	-7	-15	-23	-58	-63	-37	-16	29	-3	-26	31	-20	35	28	36	-10	-11	8	0	-34	20	35	14	31	
Interconnection		32	77	34	-17	-27	-42	8	-42	-8	27	-35	-51	-84	-47	-53	2	-35	-54	-68	-78	-55	-52	-29	-101	-36	-43	-52	-87	-93	-67	-45	0	-33	-56	3	-49	6	-1	7	-38	-41	-22	-30	-64	-9	6	-15	1	
System Total		13668	13314	12998	12776	12599	12447	12129	12104	11899	11794	11821	11918	12114	12311	12328	12557	13146	14355	14888	15435	15699	16105	16226	16479	16181	16074	16016	16372	16616	16989	16966	16937	17021	16994	16550	16016	15640	15512	15935	16677	16547	16431	16282	16040	15654	15304	15116	14838	
SRev ST-Coal		172	270	458	475	525	524	605	660	627	631	633	633	629	631	642	579	571	273	153	156	186	168	124	117	116	117	117	67	65	158	83	66	97	83	55	67	78	77	77	77	91	80	60	90	108	122	114	118	
SRev CCGT-Gas		379	490	424	652	729	731	768	767	805	966	906	859	770	1112	1259	1258	728	368	210	258	309	311	299	236	354	379	474	321	279	68	99	260	130	156	294	402	506	540	402	244	309	429	406	348	391	389	439	588	
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 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 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	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		965	965	1153	1153	1153	1153	1153	1153	1027	1027	1027	1027	1027	876	1027	1027	1027	1027	651	651	651	590	313	464	464	651	651	651	338	151	0	0	0	151	277	364	652	839	464	277	277	126	277	378	464	651	839		
Hydro		337	229	104	128	121	123	118	127	167	173	167	133	123	295	174	175	149	131	537	385	439	386	581	412	556	451	428	334	463	580	655	688	683	649	720	483	359	243	391	439	492	481	832	622	664	406	390	309	
S.Reserve Total		1853	1954	2139	2408	2528	2531	2644	2707	2752	2797	2733	2652	2549	2914	3102	3039	2475	1799	1551	1450	1585	1455	1317	1229	1490	1598	1670	1373	1145	957	837	1014	910	1039	1346	1316	1595	1699	1334	1037	1169	1267	1424	1337	1541	1381	1594	1854	