

Daily System Generation Summary on Monday

Monday, November 16, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,372 MW
Distillate	0 MW
Total TNB	2,372 MW
Total IPP	17,529 MW
Total Co-Gen	0 MW
Total System	22,724 MW

Generation Mix

Type	MWh	Percentage
Hydro	20,559	5.81 %
Gas	31,384	8.87 %
Total TNB	51,943	14.67 %
ST-Coal	237,372	67.06 %
LSS	2,805	0.79 %
Gas	60,700	17.15 %
Total IPP	300,877	85.00 %
Co-Gen	340	0.10 %
Total Co-Gen	340	0.10 %
Total Generation	353,160	99.77 %
PLTG	77	0.02 %
HVDC	-903	-0.26 %
Interconnection	-826	-0.23 %
Net Energy	353,986	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	18,072 MW
TNB Generation	3,716 MW
IPP Generation	13,368 MW
Spinning Reserve	973 MW
Maximum Demand	17,166 MW
Net Energy	353,986 MWH
Load Factor	85.92 %

Fuel Cost

Total Cost:	44,568,450.17 RM
Cost per Unit	12.61 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	190
Hydro	513
Syncon	366
Thermal	277
Total	1,346

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Cloudy	27

Gas Usage

Station	(mmcsfd)
GLGR	47
SRDG	7
TJGS	168
Total TNB	222

CBPS	50
NPRI	159
PLPS	87
YPKA	24
Total IPP	320
Total Gas	543

Total Gas Required	543
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Alternate Fuel Usage

Station	(mmcsfd)
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	13648	13110	12673	12236	11948	11878	12009	12087	12685	14708	15630	16267	16344	16245	16833	17037	17072	16623	15586	15974	16273	15932	15404	15089

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, December 1, 2020 9:53:04 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	633	632	632	631	632	633	633	632	632	463	451	452	452	548	551	552	624	632	630	633	633	631	631	633	631	631	632	631	632	631	632	634	632	634	630	632	629	632	631	632										
JMAH	U002	368	376	373	373	375	372	373	370	373	371	373	374	373	374	370	372	374	373	373	372	373	376	374	375	370	374	374	373	372	370	369	419	455	454	454	451	453	455	453	453	454	456	450	453	453	456				
JMHE	U001	953	954	954	948	951	780	778	780	779	784	779	782	778	778	778	782	780	974	977	981	979	977	980	981	979	979	980	979	981	978	979	982	975	983	980	978	978	981	980	981	978	982	980	981	976	979	978	981		
JMHE	U002	953	955	951	950	951	950	778	780	780	782	781	782	779	783	778	780	971	978	981	983	979	978	982	977	981	981	977	981	980	979	981	975	984	979	978	980	981	980	981	978	982	981	975	980	976	981				
JMJG	U002	670	677	673	672	668	672	670	604	542	490	442	440	447	448	449	474	568	629	666	667	672	677	673	674	672	671	671	687	667	674	674	668	667	671	678	672	673	673	672	667	667	674	671	673	677	672	673			
JMJG	U003	666	664	667	659	666	662	660	615	548	527	449	454	458	455	456	485	571	623	663	663	661	667	662	665	662	668	660	662	662	663	662	666	660	667	666	663	664	664	662	663	667	662	662	663	664	662	663			
JMJG	U004	912	851	794	736	705	702	703	706	704	705	702	705	705	705	705	705	705	703	758	813	845	899	899	901	900	906	927	928	928	928	929	932	931	929	929	926	928	928	930	928	927	930	925	930	930	929	927			
JMJG	U005	791	703	699	700	700	700	699	696	696	702	700	701	702	702	701	699	699	772	795	797	796	798	796	796	794	795	796	796	799	796	796	797	796	796	793	796	794	793	795	796	795	796	794	795	791	794	794	800		
PKLG	U003	281	281	283	281	280	280	277	278	277	280	280	280	280	281	277	282	281	280	279	282	281	283	282	278	279	281	284	278	282	278	275	282	280	279	277	279	280	282	281	282	280	278	277	276	278	279	278			
PKLG	U005	467	467	469	468	468	475	466	466	468	466	468	467	466	469	468	467	470	467	467	465	467	468	467	466	466	466	467	468	468	467	465	467	468	468	466	466	466	466	466	466	468	467	474	468	467	467				
PKLG	U006	445	449	451	449	449	448	445	449	449	450	449	449	449	448	448	448	453	452	448	449	448	449	449	447	447	449	449	445	447	445	449	367	339	358	307	392	442	449	446	447	448	447	449	449	447	449	449			
TBIN	U001	703	692	698	700	697	699	700	698	698	700	698	697	698	699	701	696	698	698	689	690	687	689	687	688	690	690	688	689	690	691	691	690	689	689	689	692	690	689	688	690	690	689	690	687	691	690	691			
TBIN	U002	692	684	694	691	687	691	690	691	692	689	691	691	691	691	690	691	694	689	690	696	689	690	695	691	691	690	692	689	692	689	690	691	691	689	687	689	691	685	688	692	691	688	690	690	689	691	692			
TBIN	U003	692	691	691	690	688	690	689	690	690	691	690	690	690	689	690	690	691	691	692	693	691	691	686	690	690	687	691	690	690	692	690	690	691	691	689	684	692	691	690	690	689	692	691	693	690	687	692	691		
TBIN	U004	949	862	782	782	782	782	782	784	782	783	783	782	782	782	782	782	815	904	984	982	983	981	982	982	981	982	982	982	982	983	982	982	981	983	982	983	983	983	982	983	983	983	982	984	981	983	982			
Total ST-Coal		10175	9938	9811	9730	9699	9536	9343	9239	9110	8883	8736	8746	8749	8853	8848	8845	8988	9631	9788	10021	10165	10186	10249	10249	10233	10237	10257	10266	10273	10267	10265	10319	10276	10246	10258	10201	10290	10352	10351	10350	10343	10358	10349	10349	10337	10350	10346	10362		
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	349	359	314	225	218	221	221	221	214	220	219	219	225	219	226	221	223	287	342	377	380	380	373	362	365	363	362	362	365	365	364	365	365	367	365	364	360	360	360	365	358	362	353	363	350	361	360	362		
GLGR	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	13	25	67	89	99	100	99	100	100	99	99	100	100	100	100	100	99	100	100	100	100	100	100	98	100	102	100	99	101	100	102	100	101	99	68		
GLGR	GT02	95	96	96	96	96	96	96	95	96	96	95	94	96	95	95	95	90	91	101	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	101	100	101	101	101	101	101	101	101	101	100	100	67			
GLGR	ST1C	40	40	40	40	39	40	40	40	40	40	41	41	40	40	40	41	40	77	91	91	91	91	91	91	91	91	92	91	91	91	91	92	92	91	91	91	91	91	91	91	91	91	91	91	91	76				
NPRI	BLK1	496	503	511	506	502	497	497	500	494	506	506	508	508	496	504	499	504	502	510	511	511	512	511	512	511	512	510	515	515	518	510	516	512	516	510	511	503	511	511	511	515	495	515	494	511	500	512			
NPRI	BLK2	511	518	527	521	517	512	511	517	509	523	523	521	525	511	519	522	521	512	527	523	521	523	523	520	522	522	540	539	541	539	542	527	524	527	521	521	515	522	521	529	521	525	507	526	504	523	511	521		
PCGP	PGRG	588	588	609	601	596	591	590	593	587	604	603	603	606	592	602	602	603	591	602	603	601	605	604	602	601	604	603	609	609	615	604	611	607	608	603	601	593	603	602	613	602	606	584	607	578	602	589	604		
PLPS	GT11	111	116	98	66	65	61	61	62	61	65	66	66	65	62	66	66	65	111	133	133	133	136	133	133	135	132	134	133	136	136	135	137	137	147	126	139	116	115	136	143	137	140	129	138	127	133	128	126		
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	95	142	143	142	142	142	142	145	142	146	144	149	129	142	119	119	140	149	141	142	133	144	132	136	131	53		
PLPS	GT13	107	112	95	63	60	61	61	62	60	64	64	64	65	61	65	65	64	109	130	130	131	133	130	130	129	130	130	129	132	134	131	134	134	138	123	135	111	112	132	140	132	135	126	134	124	130	65	0		
PLPS	ST18	130	133	130	93	90	87	87	89	85	89	89	90	91	86	90	90	91	130	142	141	140	182	211	211	211	211	211	212	211	210	212	209	214	210	213	200	199	211	211	212	208	211	208	209	187	125				
SPGP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	94	58	57	138	138	212	211	231	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
TJGS	GT1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	164	231	223	224	223	223	226	227	224	225	227	227	227	226	229	228	228	228	228	229	219	225	215	230	225	230
TJGS	GT1B	0	0	0	0	0	0	0	0	0	71	70	70	71	188	130	130	134	130	176	207	208	184	163	210	217	216	216	215	216	215	213	214	213	213	216	219	214	220	218	214	215	21								

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	9	10	10	10	10	10	10	10	10	9	10	10	9	9	9	9	10	9	9	9	9	10	10	
CEND	HY04	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	127	125	125	-1	-1	-1	125	125	125	125	125	63	-1	-1	
HTRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	122	122	123	122	122	123	122	125	
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36	36	36	36	36	36	36	36	36	36	
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	37	37	37	37	37	37	37	37	37	37	
KNRG	HY03	24	25	26	25	25	25	25	25	25	25	26	24	25	25	36	36	36	36	36	36	36	36	36	36	36	
KNYR	HY01	-1	-1	-1	95	65	63	-1	-1	-1	-1	-1	-1	60	58	99	99	99	98	98	99	60	-1	-1	99	99	
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	58	99	99	99	99	99	99	55	55	55	99	99	99	
KNYR	HY04	54	61	73	100	63	62	62	59	58	59	78	62	84	58	59	59	66	59	72	61	64	99	93	62	62	
LPIA	HY01	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	23	23	23	23	23	23	22	22	22	
LPIA	HY02	23	23	23	23	23	23	23	23	23	23	23	23	23	24	24	24	24	24	24	24	24	24	24	24	23	
MNOR	HY01	5	5	5	3	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	5	5	6	6	5	5	
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	21	21	21	22	21	21	31	81	
PGAU	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	83	83	83	83		
PGAU	HY03	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	21	22	22	-1	-1	21	22	22	22	22	21	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22	0	0	0	0	0	0	
SIHY	HY02	50	50	0	0	0	0	0	0	0	0	0	0	50	50	30	30	50	50	50	50	50	50	50	50	50	
SIHY	HY03	50	50	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	50	50	50	50	50	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	17	0	0	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	17	0	0	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	23	23	23	23	17	0	0	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	23	23	23	23	17	0	0	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	36	36	36	36	36	36	36	36	36	36	36	36	
TMGR	HY02	0	0	0	0	0	0	0	0	0	33	33	34	33	33	33	85	86	86	86	86	86	87	87	87	87	
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	83	84	84	83	83	84	83	84	84	84	84	
TMGR	HY04	39	41	69	83	41	40	40	42	39	42	62	44	66	39	41	42	47	41	51	45	45	84	74	41	42	
UJLI	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	
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	-1	
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
UPIA	HY02	5	5	5	5	5	5	6	5	5	6	5	6	5	6	6	6	6	6	6	6	6	6	6	6	6	
Total Hydro		314	325	265	400	291	287	244	223	218	222	295	280	357	300	284	289	571	790	896	901	1096	1410	1277	1210	933	781
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	4	8	12	16	19	21	12	20	24	28	29	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	24	1	22	10	9	24	28	18	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	15	17	13	24	26	27	30	30	27	30	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	8	10	5	28	32	40	42	41	46	46	44	13	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	7	17	23	27	37	32	31	38	18	46	30	48	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	5	17	20	16	28	28	29	29	29	28	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	8	14	21	28	34	37	42	44	44	39	13	42	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	10	16	13	15	41	32	16	33	44	32	14	23	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	8	14	21	26	26	27	33	37	39	44	44	46	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	7	12	19	21	23	24	30	22	22	30	15	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	7	18	15	11	33	40	40	39	28	49	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	7	19	29	37	44	49	53	57	58	54	43	41	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	3	5	19	24	37	37	41	43	43	26	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	19	70	130	166	253	321	356	401	433	457	467	458	363	

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	10	11	11	9	11	10	9	9	9	8	11	9	10	10	9	9	9	10	10	10	11	9	10	9	9	11	11	10	9	10	9	9	9	10	9	10	8	9	8	9	9	10	10	9	10	6			
PCUF	CUFK	3	4	4	3	3	4	2	4	3	3	2	3	3	4	1	2	0	2	2	1	3	3	6	4	3	5	4	5	5	6	5	5	5	5	2	5	12	7	7	8	8	7	3	9	10	12	10	7	
Total Co-Gen		13	15	15	12	14	14	11	13	12	11	13	12	13	14	10	11	9	12	12	11	14	12	16	13	12	16	15	15	14	16	14	15	14	14	11	15	21	17	15	17	16	16	12	19	20	21	20	13	
Total Gen		13611	13342	12986	12804	12638	12456	12215	12107	11938	11857	11787	11829	11942	12115	12083	12110	12660	13909	14696	15177	15554	15902	16214	16479	16312	16176	16193	16435	16741	16880	16912	17099	17022	16960	16558	16016	15612	15409	15979	16409	16289	16215	15951	15739	15435	15349	15116	14889	
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	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-30	-30	-29	-29	-29	-29	-30	-30	-29	-97	-97	-96	-99	-97	-99	-29	-30	-30	-29	-28	-30	-28	-30	-28	-31	-31	-28		
TIE-PLTG		4	-14	-86	3	5	14	19	6	30	-24	-51	-51	-28	5	36	-1	16	18	26	24	-36	-49	-12	-8	9	-18	-11	-58	-52	-71	-17	40	60	22	45	20	67	21	45	-25	57	42	58	-8	70	-35	67	-18	
Interconnection		-26	-44	-114	-26	-25	-15	-10	-22	1	-53	-80	-80	-56	-24	7	-30	-14	-11	-2	-4	-66	-79	-41	-37	-20	-47	-41	-88	-81	-168	-114	-56	-39	-75	-54	-9	37	-9	16	-53	27	13	30	-38	42	-65	37	-46	
System Total		13648	13396	13110	12840	12673	12482	12236	12140	11948	11921	11878	11920	12009	12150	12087	12151	12685	13930	14708	15191	15630	15993	16267	16528	16344	16234	16245	16534	16833	17059	17037	17166	17072	17046	16623	16036	15586	15429	15974	16473	16273	16213	15932	15788	15404	15424	15089	14945	
SRev ST-Coal		306	430	416	441	441	601	552	636	632	798	812	810	810	715	710	716	620	419	396	303	212	225	172	172	188	184	324	315	308	314	316	291	280	309	297	343	264	204	293	294	301	286	296	298	303	294	298	285	
SRev CCGT-Gas		234	279	448	681	709	724	726	711	745	834	836	902	1000	875	987	982	1021	697	265	146	143	379	480	177	148	149	134	130	114	103	137	119	131	98	173	134	251	218	144	92	145	120	236	120	265	147	293	389	
SRev LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	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	
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	3	-1	54	2	0	70	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	
Syncon		1179	1179	1179	1078	1078	1078	1179	1179	1179	1179	1179	1028	1179	1179	1179	1179	1078	802	802	651	464	277	615	464	626	727	727	500	0	0	0	0	0	0	0	0	489	802	990	590	302	302	489	489	889	889	990	990	990
Hydro		144	134	94	60	169	172	265	135	140	136	150	316	138	195	211	206	203	261	155	301	393	539	334	402	517	419	447	400	661	696	633	514	564	577	805	446	418	501	493	554	613	540	675	410	433	227	211	208	
S.Reserve Total		1863	2022	2137	2260	2397	2575	2571	2661	2696	2947	2977	3056	3127	2964	3087	3083	2922	2179	1618	1401	1212	1420	1600	1215	1479	1479	1632	1345	1083	1116	1085	978	977	984	1345	1412	1735	1913	1520	1242	1361	1435	1696	1717	1890	1658	1792	1872	