

Daily System Generation Summary on Monday

Monday, November 9, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,106 MW
Distillate	0 MW
Total TNB	2,106 MW
Total IPP	16,503 MW
Total Co-Gen	0 MW
Total System	21,306 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,319	4.66 %
Gas	41,726	11.90 %
Total TNB	58,045	16.56 %
ST-Coal	233,084	66.49 %
LSS	2,057	0.59 %
Gas	58,205	16.60 %
Total IPP	293,346	83.68 %
Co-Gen	206	0.06 %
Total Co-Gen	206	0.06 %
Total Generation	351,597	100.30 %
PLTG	319	0.09 %
HVDC	727	0.21 %
Interconnection	1,046	0.30 %
Net Energy	350,551	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	17,925 MW
TNB Generation	3,165 MW
IPP Generation	13,425 MW
Spinning Reserve	1,310 MW
Maximum Demand	16,586 MW
Net Energy	350,551 MWH
Load Factor	88.06 %

Fuel Cost

Total Cost:	42,904,299.17 RM
Cost per Unit	12.19 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	278
Hydro	453
Syncon	480
Thermal	300
Total	1,511

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmcsfd)
GLGR	43
PGPS	27
TJGS	198
Total TNB	268
CBPS	50
NPRI	78
PGLA	90
PLPS	80
SKSP	0
YPKA	11
Total IPP	310
Total Gas	578
Total Gas Required	578

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	13710	13066	12596	12241	11862	11714	11936	12224	12834	14851	15645	16150	16089	15927	16338	16491	16543	16279	15395	15852	16161	15885	15337	15078

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, December 1, 2020 9:50:09 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	692	690	693	693	651	598	601	523	450	456	452	453	449	453	473	453	584	693	693	693	651	551	502	503	502	500	503	502	502	503	500	502	502	502	500	501	502	502	502	501	502	501	502	501					
JMAH	U002	693	697	696	694	652	622	600	519	452	454	453	452	452	454	469	454	580	698	693	692	653	557	502	503	502	501	502	503	503	504	502	503	505	503	502	503	499	503	504	504	504	504	505	502	505	503	504	500	
JMHE	U001	851	847	809	782	783	778	777	782	780	783	779	783	780	781	783	782	779	916	981	981	1013	1016	1016	1016	1012	1009	1013	1012	1013	1016	1014	981	981	978	980	979	983	978	982	981	980	982	985	978	982	982	975	982	
JMHE	U002	501	499	500	500	502	501	497	501	500	502	501	502	501	500	501	501	498	503	501	502	732	946	981	980	980	977	980	975	979	980	980	976	977	978	980	978	982	980	982	980	979	980	984	978	980	980	975	979	
JMJG	U002	673	670	658	594	548	520	464	464	464	464	464	464	505	512	513	517	536	604	676	670	672	671	682	671	668	676	673	681	669	672	674	673	673	671	677	683	673	671	668	678	672	677	671	673	675	677	672	673	
JMJG	U003	666	662	648	590	545	500	464	453	459	453	454	456	456	458	456	455	485	508	600	664	667	661	663	663	658	664	667	651	670	666	662	662	665	665	663	662	660	661	662	662	660	665	662	663	663	656	667	662	
JMJG	U004	667	662	660	657	653	658	656	658	656	654	655	656	656	658	656	656	659	655	657	655	682	739	797	854	901	913	972	971	945	931	930	931	931	932	931	931	931	931	931	927	931	930	932	930	932	933	932	930	933
JMJG	U005	797	792	755	695	700	700	700	701	702	700	699	701	702	705	700	700	699	701	700	774	807	803	801	800	801	801	801	800	801	799	805	799	803	791	799	800	796	804	803	799	798	800	799	792	792	798	788	796	
PKLG	U003	283	282	283	283	281	282	279	279	282	282	229	207	207	244	268	285	281	281	282	281	279	280	281	282	281	283	281	279	279	282	282	280	281	280	281	282	281	280	282	280	281	281	280	280	280	279	280		
PKLG	U005	468	467	467	467	467	468	469	468	468	467	407	406	407	439	467	467	468	468	467	467	465	466	468	468	468	466	467	468	467	468	466	467	467	468	467	466	466	467	466	467	467	469	464	466	473	468	468	467	
PKLG	U006	450	450	447	449	449	448	445	448	450	449	451	450	449	449	449	448	450	447	448	449	448	446	450	451	451	451	448	449	447	449	449	447	447	452	448	448	447	448	447	447	448	449	448	450	451	449	447	449	
TBIN	U001	690	690	690	691	689	687	689	689	690	606	602	600	678	691	648	693	690	693	688	691	689	690	691	688	690	690	690	690	689	690	691	692	687	689	689	689	689	689	690	690	689	691	693	691	690	690	690	693	
TBIN	U002	689	691	689	688	691	691	687	691	692	606	600	601	676	692	651	689	688	690	691	690	688	695	691	692	687	693	687	697	690	691	689	687	690	693	689	688	690	687	695	693	689	690	696	690	691	690	689	692	
TBIN	U003	691	693	693	691	691	692	692	691	693	637	601	601	668	692	661	688	690	695	691	690	691	689	690	696	694	689	690	694	692	691	693	690	693	692	690	694	690	691	698	689	688	691	687	691	693	696	693	693	
TBIN	U004	854	853	844	783	782	782	781	783	783	783	782	784	788	783	781	783	782	847	937	982	983	981	981	982	982	983	982	984	983	983	983	983	983	982	983	982	982	982	982	982	984	983	981	982	982	982	981	981	
Total ST-Coal		9665	9645	9532	9257	9084	8927	8801	8650	8521	8296	8129	8116	8368	8511	8476	8571	8869	9399	9705	9881	10120	10191	10196	10249	10277	10296	10356	10356	10329	10322	10320	10275	10282	10277	10280	10284	10271	10271	10292	10289	10270	10292	10290	10270	10292	10284	10260	10281	
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	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	0	
CBPS	BLK2	346	352	326	238	220	210	218	217	223	215	222	228	222	222	219	226	368	362	362	359	362	359	359	266	256	362	363	360	364	365	365	363	364	362	360	361	361	368	366	365	363	361	359	358	362	361	355		
GLGR	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	46	78	108	103	100	100	99	67	81	101	100	99	101	101	101	100	68	68	67	90	105	103	105	104	104	93	67	68	67			
GLGR	GT02	95	95	95	95	95	96	95	96	95	96	95	95	95	95	95	95	95	95	95	96	110	103	100	100	100	67	82	100	100	100	100	100	100	100	68	67	68	91	104	104	104	105	104	91	67	67	67		
GLGR	ST1C	39	40	39	39	40	40	40	40	40	40	40	40	39	40	40	39	40	39	40	37	92	97	91	91	91	75	77	91	91	91	91	91	91	91	76	73	82	94	94	93	93	90	73	73	73				
NPRI	BLK1	511	510	510	518	517	503	507	515	521	510	520	524	520	518	452	508	518	528	518	518	514	518	517	517	516	506	516	512	515	517	516	517	515	516	513	508	521	515	523	518	517	515	513	511	509	516	508	512	
PCGP	PGRG	588	587	589	596	598	584	584	591	604	588	603	606	602	600	602	593	606	617	601	605	597	603	602	602	602	591	603	598	603	603	601	602	604	602	595	590	606	600	612	607	602	603	598	594	593	603	592	594	
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	58	134	216	168	172	175	206	211	198	183	178	213	192	187	169	182	215	217	213	217	207	215	184	166	180	202	220	215	209	204	170	197	184	216	196	170	
PGLA	GT12	154	154	153	154	154	152	152	154	158	153	157	159	166	206	219	171	173	177	210	213	200	188	180	217	195	192	172	184	218	219	214	219	210	218	188	169	184	204	222	219	212	208	173	201	187	219	199	174	
PGLA	ST10	90	89	89	89	89	89	89	88	88	87	90	90	85	87	226	204	206	235	232	229	225	220	235	222	222	207	225	244	239	239	239	239	242	223	205	211	217	241	241	239	229	213	213	215	239	227	206		
PGPS	GT3A	0	0	0	0	0	69	69	70	70	70	70	75	95	94	79	77	77	95	94	95	96	97	96	97	96	96	96	96	96	96	87	88	67	67	51	0	0	0	0	0	0	0	0	0	0	0	0		
PGPS	GT3B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	76	80	96	96	95	97	97	99	97	98	98	98	98	97	98	87	67	67	76	51	0	0	0	0	0	0	0	0	0	0	0	0		
PGPS	ST3C	0	0	0	0	0	0	0	0	0	0	5	24	42	43	35	32	40	89	91	91	92	94	94	94	94	95	95	95	95	96	96	84	84	65	61	35	22	0	0	0	0	0	0	0	0	0	0		
PLPS	GT11	128	128	128	129	129	128	129	129	128	129	129	129	128	129	128	128	128	127	127	122	130	134	133	134	129	115	135	143	143	115	142	126	138	112	112	126	129	145	138	133	129	114	130	1					

Daily MW Generation on Monday

[illegible]

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	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
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	6	6	6	6	6	6	5	5	6	6	5	5	5	6	6	5	6	6	6	6	5	5	6	4
PCUF	CUFK	2	3	3	4	4	3	2	2	3	4	3	4	2	2	3	2	6	3	0	4	3	2	3	4
Total Co-Gen		8	9	9	10	10	9	7	7	9	10	8	9	7	11	9	8	9	11	7	8	9	7	13	9
Total Gen		13759	13422	13160	12826	12630	12482	12321	12143	11877	11855	11732	11776	11939	12158	12207	12359	12824	14059	14858	15290	15639	15929	16150	16354
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		31	29	29	31	31	31	31	31	31	31	31	31	30	30	30	30	30	31	31	31	31	30	30	30
TIE-PLTG		29	87	75	25	14	58	60	33	-4	-2	-2	3	-17	49	-36	29	-28	-31	-12	-34	-25	-49	-19	-18
Interconnection		60	116	105	56	45	89	91	64	26	29	29	34	14	80	-6	59	2	0	18	-4	5	-19	11	12
System Total		13710	13317	13066	12781	12596	12404	12241	12090	11862	11837	11714	11753	11936	12089	12224	12312	12834	14070	14851	15305	15645	15959	16150	16353
SRev ST-Coal		448	462	564	692	777	823	836	820	815	990	1073	1068	944	870	942	817	826	546	403	266	370	404	353	359
SRev CCGT-Gas		484	665	811	873	893	976	959	928	904	954	986	951	1223	1067	980	1061	1006	422	406	385	316	293	268	200
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		1004	1091	1091	1091	904	904	904	753	1030	879	1030	1030	1030	904	1030	904	904	1030	943	943	842	842	741	741
Hydro		194	146	149	147	151	151	201	285	148	295	150	122	111	150	117	117	126	131	139	147	207	187	201	211
S.Reserve Total		2130	2364	2615	2803	2725	2854	2900	2786	2897	3118	3239	3171	3308	2991	3069	2899	2862	2129	1891	1741	1735	1726	1563	1511