

Daily System Generation Summary on Monday

Monday, August 10, 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	16,452 MW
Total Co-Gen	0 MW
Total System	21,592 MW

Generation Mix

Type	MWh	Percentage
Hydro	25,061	6.57 %
Gas	32,883	8.62 %
Total TNB	57,944	15.18 %
ST-Coal	215,392	56.44 %
LSS	2,486	0.65 %
Gas	106,049	27.79 %
Total IPP	323,927	84.88 %
Co-Gen	234	0.06 %
Total Co-Gen	234	0.06 %
Total Generation	382,105	100.12 %
PLTG	1,172	0.31 %
HVDC	-698	-0.18 %
Interconnection	474	0.12 %
Net Energy	381,631	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	19,687 MW
TNB Generation	3,193 MW
IPP Generation	15,107 MW
Spinning Reserve	1,351 MW
Maximum Demand	18,334 MW
Net Energy	381,631 MWH
Load Factor	86.73 %

Fuel Cost

Total Cost:	62,822,555.00 RM
Cost per Unit	16.44 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	454
Hydro	483
Syncon	494
Thermal	164
Total	1,595

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	17
PGPS	22
TJGS	199
Total TNB	238
CBPS	50
KLPP	95
NPRI	144
PGLA	108
PLPS	85
SGB3	33
SGRI	35
SKSP	49
YPKA	73
Total IPP	672
Total Gas	910

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Total Gas Required 910

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	15233	14494	13955	13447	13136	12789	13072	13122	13712	15579	16627	17296	17242	17031	17741	18142	18334	17946	16580	16304	17449	17676	17267	16905

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, September 4, 2020 10:29:39 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	687	700	692	694	693	693	692	692	691	692	691	691	691	695	692	692	691	692	693	692	693	694	693	693	692	692	694	686			
JMAH	U002	693	695	693	694	694	695	693	694	695	695	694	687	692	693	695	691	697	695	695	694	696	693	692	695	694	696	694	695	696	693		
JMHE	U001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	133	343	510	504	510	515	562	703	765	944	978	979	981	982	981		
JMJG	U001	677	677	675	678	676	673	674	677	676	674	676	675	678	675	678	677	677	679	682	679	675	677	685	675	678	674	682	677	676	672		
JMJG	U002	675	674	673	678	670	668	677	673	673	673	672	672	674	682	667	679	678	668	671	679	669	664	678	673	672	671	667	671	672	674		
JMJG	U003	666	666	667	669	671	667	667	668	669	669	668	671	668	671	667	667	669	668	667	668	667	667	666	667	666	667	666	667	666	667		
JMJG	U004	979	975	982	960	903	855	855	855	854	856	854	854	856	856	856	854	854	856	904	977	976	978	978	979	979	978	981	979	980	978		
JMJG	U005	700	733	731	733	732	731	730	732	728	731	730	733	732	732	732	730	733	730	732	732	733	731	732	733	730	731	728	731	732	732		
PKLG	U003	277	278	278	278	279	279	268	276	277	276	280	278	277	277	279	278	278	280	281	279	281	279	278	275	278	279	277	268	277	277		
PKLG	U004	279	280	278	276	276	274	271	277	274	277	278	278	277	278	277	276	280	278	277	275	279	280	279	277	275	274	278	287	282	281		
PKLG	U005	466	465	466	466	468	468	465	466	466	470	468	468	468	468	467	466	466	468	466	467	467	468	464	466	467	467	467	467	467	467		
TBIN	U001	687	689	689	691	690	689	688	689	691	687	687	689	691	687	688	689	687	684	689	688	690	689	689	689	687	690	689	689	689	689		
TBIN	U003	694	696	693	693	688	691	691	693	693	689	692	689	691	690	691	692	696	691	694	691	691	693	689	693	691	691	691	691	692	692		
TBIN	U004	755	834	902	902	903	852	852	853	853	854	853	853	853	853	853	852	852	852	905	983	982	977	984	982	981	983	982	985	984	982		
Total ST-Coal		8240	8349	8427	8410	8344	8235	8224	8245	8241	8243	8244	8238	8250	8254	8237	8325	8382	8585	8860	9010	9005	9006	9073	9222	9255	9443	9461	9482	9487	9479	9458	
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		
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		
CBPS	BLK2	359	359	335	223	222	228	218	222	220	224	221	226	223	227	220	277	314	350	362	364	361	361	357	357	356	356	354	354	355	355	353	
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	59	133	133	133	134	134	135	135	111	137	137	136	140	142		
KLPP	GT14	153	117	111	80	77	77	80	75	74	78	78	78	79	77	81	76	96	114	115	115	154	156	152	153	157	158	157	157	154	160	161	
KLPP	GT15	153	119	119	84	76	76	75	78	78	80	81	80	85	85	94	117	127	157	157	154	154	157	159	156	158	158	161	157	158	158	160	
KLPP	ST17	138	119	123	123	83	83	82	82	82	83	83	85	87	85	85	86	99	98	176	204	204	200	200	199	199	194	200	204	204	206	206	
NPRI	BLK1	508	508	508	481	451	460	374	341	328	339	329	380	435	421	363	323	447	488	509	509	509	514	512	509	509	509	509	514	510	511	509	
NPRI	BLK2	506	505	463	487	447	443	372	340	327	337	328	377	433	420	364	325	445	489	512	511	512	512	515	512	512	512	511	511	516	511	510	
PCGP	PGRG	603	598	606	603	601	613	601	510	450	351	182	184	181	356	353	352	596	602	603	602	601	609	610	602	604	603	606	603	603	611	603	
PGLA	GT11	223	211	169	168	167	171	167	167	167	168	168	168	169	169	168	165	167	206	192	183	211	213	211	210	205	202	208	181	171	216	213	
PGLA	GT12	255	240	196	196	196	199	195	195	194	195	195	195	196	195	192	194	233	220	212	239	243	243	239	232	232	236	207	195	245	220	220	
PGLA	ST10	250	233	203	205	206	205	205	205	205	205	205	205	205	203	205	236	227	210	235	242	237	240	237	237	237	227	221	239	241	241	240	
PGPS	GT3A	74	89	73	72	73	72	72	73	73	73	72	73	72	73	72	73	73	72	73	72	73	72	73	72	73	73	73	72	73	73	89	
PGPS	ST3C	0	36	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	32	32	32	32	32	32	32	42	42	42	
PLPS	GT11	112	112	109	65	65	68	65	65	65	65	65	66	65	65	65	59	91	112	111	115	116	132	122	115	115	115	116	116	123	129	138	
PLPS	GT12	70	68	68	69	69	71	69	69	69	69	69	71	70	69	69	68	69	119	119	119	121	138	127	120	120	121	120	120	128	132	142	
PLPS	GT13	64	64	10	0	0	0	0	0	0	0	0	0	0	0	0	0	6	72	113	113	131	119	112	112	112	112	112	112	120	126	134	
PLPS	ST18	160	154	148	98	96	96	96	96	96	95	94	95	96	96	95	96	100	132	132	198	198	210	205	201	199	198	198	199	201	204	211	
SGB3	GT33	68	138	108	108	109	112	108	107	107	108	106	110	107	108	109	105	108	108	108	133	133	133	130	113	113	115	115	113	137	137	137	114
SGB3	ST34	34	63	55	55	55	55	55	55	55	54	54	54	54	55	55	54	54	54	55	55	63	63	62	62	56	56	57	57	57	63	63	63
SGRI	GT22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	138	135	113	116	
SGRI	GT23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	106	110	109	110	
SGRI	ST24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	38	65	65	64	
SKSP	BLK1	220	223	218	221	219	229	219	221	217	216	217	220	221	220	218	219	217	217	234	315	328	329	324	308	303	317	285	284	331	327	329	327
TJGS	GT1A	187	130	139	176	138	143	146	147	145	144	146	146	145	143	146	144	138	224	208	203	227	228	224	226	210	216	219	226	229	227	225	228
TJGS	GT1B	174	115	126	168	125	131	137	131	131	133	134	136	134	133	133	128	210	193	195	210	208	214	210	204	203	212	215	216	214	213	214	212
TJGS	ST1C	212	181	182	203	172	172	172	175	175	175	175	175	175	175	175	175	237	230	213	238	245	245	245	245	242	240	247	247	247	247	247	242
TJGS	GT2A	220	159	147	147	147	147	147	147	147	148	148	147	147	148	148	147	148	148	210	215	215	213	213	213	213	213	213	213	213	213	213	219
TJGS	GT2B	219	156	145	145	145	145	145	145	144	144	144	145	145	145	146	143	143	209	211	211	211	209	210	210	210	210	210	210	210	210	210	207
TJGS	ST2C	263	239	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	237	257	257	257	257	257	257	257	257	257	257	257	257	257	213
YPKA	GT11	125	79	70	70	69	70	70	70	70	69	69	69	69	69	70	70	70	120														

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	10	14	17	20	22	24	25	28	19	30	29	26	25	11	21	18	15	8	5	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	4	6	6	5	7	5	9	8	6	6	7	7	6	7	4	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	15	12	36	31	42	36	40	36	27	42	46	34	42	40	34	32	13	12	18	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8	11	29	26	29	28	42	45	46	46	38	43	44	38	28	28	22	16	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	5	6	10	22	27	24	26	26	24	24	28	27	26	20	21	18	12	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	8	13	18	34	23	16	20	22	22	26	34	26	35	26	19	18	11	10	6	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	8	17	22	28	20	36	46	42	42	35	37	49	34	23	28	19	31	26	15	10	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	13	19	22	22	23	38	24	30	26	32	17	22	18	22	16	12	10	7	5	2	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	1	5	11	17	24	30	33	40	44	48	36	20	39	37	40	43	37	31	33	20	9	4	2	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	1	4	7	20	28	18	48	17	48	40	52	21	42	39	57	52	46	44	38	31	23	16	5	1	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	