

Daily System Generation Summary on Monday

Monday, October 12, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,222 MW
Distillate	0 MW
Total TNB	2,222 MW
Total IPP	15,589 MW
Total Co-Gen	0 MW
Total System	19,702 MW

Generation Mix

Type	MWh	Percentage
Hydro	26,931	7.42 %
Gas	48,749	13.43 %
Total TNB	75,680	20.85 %
ST-Coal	192,904	53.15 %
ST-Gas	1,599	0.44 %
LSS	2,452	0.68 %
Gas	89,987	24.79 %
Total IPP	286,942	79.06 %
Co-Gen	159	0.04 %
Total Co-Gen	159	0.04 %
Total Generation	362,781	99.96 %
PLTG	456	0.13 %
HVDC	-607	-0.17 %
Interconnection	-151	-0.04 %
Net Energy	362,932	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	18,180 MW
TNB Generation	4,005 MW
IPP Generation	13,391 MW
Spinning Reserve	780 MW
Maximum Demand	17,432 MW
Net Energy	362,932 MWH
Load Factor	86.75 %

Fuel Cost

Total Cost:	44,992,719.03 RM
Cost per Unit	12.39 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	525
Hydro	365
Syncon	292
Thermal	222
Total	1,404

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	50
TJGS	150
Total TNB	200
CBPS	50
KLPP	74
NPRI	157
PGLA	101
PLPS	81
SGB3	69
SKSP	24
PKLG	16
Total IPP	572
Total Gas	772
Total Gas Required	772

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	13943	13467	12939	12655	12294	12195	12471	12667	13441	15322	16186	16924	16732	16543	17067	17283	17432	16873	15775	16139	16678	16413	15976	15258

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, November 5, 2020 8:30:41 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Monday

		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	U002		695	696	692	694	550	554	552	551	505	503	454	455	453	453	481	678	690	694	695	695	695	695	696	692	694	694	694	694	695	695	694	696	694	694	694	694	694	694	696	692	696	692	696	692	693	698	693	695	695	696
JMHE	U001		950	874	783	779	780	794	780	777	776	778	781	780	780	784	780	781	783	903	980	979	976	969	981	975	978	980	981	979	981	982	978	981	980	979	978	984	985	980	977	979	978	978	983	982	979	984	984	981		
JMHE	U002		950	875	780	779	781	778	781	778	776	777	781	780	780	783	780	781	782	902	979	978	978	974	982	981	979	981	980	981	979	979	979	980	980	980	979	976	983	984	981	980	978	979	981	981	980	980	983	981	982	
JMJG	U001		672	673	671	669	606	599	556	526	498	498	441	447	453	450	443	458	551	647	675	671	671	671	671	671	673	671	671	671	675	669	674	673	672	676	666	674	673	672	673	667	670	677	673	670	672	667	673			
JMJG	U002		673	677	671	670	611	591	564	525	491	502	450	442	447	450	449	462	548	623	668	671	668	671	673	673	666	681	670	673	677	679	671	668	675	672	666	672	671	672	673	670	672	666	675	673	667	678	672			
JMJG	U004		887	853	856	856	855	856	854	854	855	857	856	854	856	856	855	856	856	925	977	979	980	977	977	977	977	977	980	980	980	982	979	981	977	977	979	978	977	978	977	978	970	979	980	981	981	982	967	983		
JMJG	U005		0	0	0	0	0	0	0	0	0	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	31	70	137	173	193	262	296	354	412	444	467	514	556	641		
PKLG	U004		278	295	281	278	252	210	213	206	202	207	208	206	206	236	280	280	274	283	279	292	281	281	278	277	274	283	280	281	282	278	282	282	278	274	282	282	280	279	280	278	280	281	278	279	280	283	282	280		
PKLG	U005		467	467	467	466	452	405	405	405	404	406	407	406	405	433	468	468	466	468	466	473	465	468	468	467	466	467	468	468	467	468	466	466	466	466	469	468	469	466	466	467	413	467	466	466	439	447	466	469	468	
PKLG	U006		377	357	388	435	449	451	449	450	451	446	360	361	435	447	448	445	450	450	358	419	448	449	447	451	450	358	347	358	414	441	448	449	449	447	446	448	448	449	448	449	452	445	449	448	449	446	449			
TBIN	U002		692	692	692	690	693	692	689	693	693	693	691	692	694	691	693	691	692	695	697	691	692	696	692	693	693	692	692	694	691	689	661	292	207	205	200	218	210	207	214	212	212	210	212	210	212	210	213	210	217	
TBIN	U003		687	687	691	691	690	691	691	689	691	689	691	691	692	692	692	690	690	691	689	689	689	689	690	689	690	688	690	689	690	689	690	690	688	689	691	691	692	690	693	695	688	691	690	690	690	688	693	692		
TBIN	U004		951	930	843	785	782	781	782	784	781	784	784	784	782	781	781	782	782	851	942	982	984	982	980	983	983	983	983	983	984	983	984	982	982	983	982	982	983	982	983	983	982	982	983	983	984	984	984	983	983	
Total ST-Coal			8279	8076	7815	7792	7501	7402	7316	7238	7125	7135	6905	6900	6981	7056	7121	7176	7551	8056	8351	8520	8528	8518	8540	8524	8529	8536	8457	8436	8453	8513	8532	8510	8130	8049	8081	8112	8209	8226	8247	8264	8342	8411	8464	8486	8502	8580	8623	8717		
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			
PKLG	U001		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		362	362	365	358	229	222	223	219	219	218	223	223	226	218	222	222	246	276	313	349	358	360	360	357	352	358	358	355	352	352	352	352	352	350	355	352	355	355	359	359	356	363	363	363	359	360	359			
GLGR	GT01		67	69	69	67	66	69	69	66	66	67	68	67	68	69	67	67	69	68	69	105	104	103	104	105	103	67	67	102	104	103	105	105	104	105	75	67	69	69	90	100	100	102	86	67	69	68	69	70		
GLGR	GT02		68	68	68	68	67	67	68	67	68	68	68	68	67	68	68	68	67	67	68	105	104	103	104	104	101	67	68	104	104	104	104	105	104	105	76	68	68	68	90	101	101	101	85	68	68	68	68	68		
GLGR	ST1C		72	72	72	72	73	73	73	72	73	72	72	72	72	72	72	72	72	72	92	94	94	94	94	94	73	72	89	94	93	93	93	93	93	93	82	72	71	72	82	91	91	91	86	72	72	72	72			
KLPP	GT13		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
KLPP	GT14		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
KLPP	GT15		0	0	0	0	0	0	36	36	35	40	56	98	154	154	135	135	135	139	137	133	142	142	137	138	154	154	159	157	157	158	158	158	158	158	158	158	158	155	158	129	161	157	159	161	156	128	126	128		
KLPP	ST17		0	0	0	0	0	0	0	0	0	17	16	34	63	66	49	53	53	49	50	132	127	128	197	197	200	202	199	199	197	197	197	197	197	197	197	197	197	197	197	197	197	197	197	197	197	197	197	197		
NPRI	BLK1		509	511	511	511	510	511	509	498	499	502	512	511	511	508	507	509	511	511	511	510	511	511	511	511	502	502	511	506	511	511	511	510	509	517	508	505	509	520	499	514	509	511	511	509	510	509	510	509		
NPRI	BLK2		511	511	512	511	511	511	499	499	503	514	511	512	509	505	509	510	511	511	512	511	510	511	511	511	499	502	511	507	511	511	510	511	511	517	507	505	509	519	500	514	507	512	511	511	511	510	511	511		
PCGP	PGRG		602	604	605	602	603	603	605	587	589	592	608	602	604	600	595	599	602	604	601	607	604	601	607	604	601	588	590	604	597	604	606	602	604	603	610	597	517	182	195	395	308	302	188	189	181	181	203	479	432	
PGLA	GT11		164	169	166	166	173	172	166	161	162	162	166	167	164	165	163	162	166	171	210	210	212	198	201	166	169	180	162	211	211	210	211	209	213	204	160	165	168	188	213	211	216	166	165	164	165	165	165			
PGLA	GT12		168	172	168	168	177	175	170	163	166	165	168	172	167	168	168	165	169	182	214	211	214	214	201	205	169	172	182	165	214	213	212	213	213	215	206	163	167	172	191	216	214	168	167	168	168	168	168			
PGLA	ST10		203	203	203	203	204	206	204	201	201	201	203	203	203	203	206	203	206	234	228	237	237	217	231	209	209	225	215	238	238	234	234	238	240	236	213	204	207	212	241	238	239	204	203	203	201	201	202			
PLPS	GT11		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	65	141	144	144	144	145	145	115	115	141	140	141	141	140	145	131																

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			
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	12	17	22	26	29	30	25	30	28	28	14	20	4	1	0	0	1	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	2	4	7	10	14	13	14	14	23	24	22	20	22	29	23	20	16	18	16	10	7	3	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	3	11	23	14	17	23	27	44	39	50	40	49	57	57	54	58	51	42	27	21	31	9	3	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	2	6	11	13	24	30	30	37	39	38	40	36	39	33	36	6	11	4	1	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	18	68	126	150	211	226	273	333	325	364	376	383	340	311	296	220	229	199	164	119	96	52	28	0	0	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	3	4	5	4	3	3	5	4	3	4	2	1	4	4	3	4	4	4	4	4	2	5	4	3	3	4	3	4	3	2	3	2	3	2	4	5	4	3	4	3	4	3	4	3	4	4	4	4		
PCUF	CUFK	4	5	3	5	1	2	5	3	3	2	3	0	2	5	3	4	5	2	4	4	3	1	1	4	3	4	3	4	3	4	1	2	2	5	2	3	2	3	4	3	3	5	4	5	2	2	4	4	2	4
Total Co-Gen		7	9	8	9	4	5	10	7	6	6	7	2	3	9	7	7	9	6	8	7	5	3	9	7	7	6	7	7	7	3	4	8	4	6	5	7	9	7	6	9	7	9	5	6	9	7	6	8		
Total Gen		14005	13662	13515	13175	12965	12845	12620	12438	12330	12199	12154	12192	12441	12689	12656	12737	13365	14651	15263	15910	16154	16561	16854	16860	16701	16633	16499	16827	17031	17355	17298	17325	17400	17343	16893	16334	15768	15559	16198	16720	16662	16602	16382	16143	15926	15485	15235	14881		
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	0		
TIE-HVDC		30	30	31	-29	-29	-29	-29	-30	-30	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-30	-30	-30	-29	-28	-28	-28	-28	-30	-28	-30	-28	-31	-28	-28	-28	-30	-30	-31	-28	-28	-28	-28	-28		
TIE-PLTG		43	-6	29	42	66	70	6	76	78	84	-1	47	11	39	29	40	-36	17	-20	-25	7	-35	-31	-60	9	64	-33	40	5	16	54	4	7	13	62	45	33	7	97	25	22	-17	10	6	-11	-30	17	-30		
Interconnection		73	24	59	13	37	41	-23	47	48	54	-18	19	10	0	11	-65	-12	-49	-54	-22	-63	-60	-89	-21	33	-33	11	-25	-12	25	-23	-22	-17	30	15	5	-24	70	-3	-5	-47	-20	-25	-39	-58	11	-58			
System Total		13943	13649	13467	13173	12939	12815	12655	12403	12294	12157	12195	12185	12471	12690	12667	12737	13441	14674	15322	15974	16186	16634	16924	16959	16732	16610	16543	16827	17067	17378	17283	17358	17432	17370	16873	16331	15775	15595	16139	16734	16678	16660	16413	16179	15976	15555	15258	14951		
SRev ST-Coal		341	461	475	438	661	678	696	693	689	699	784	779	705	682	626	625	581	524	291	162	154	164	142	158	153	146	135	156	139	169	150	172	202	353	321	290	193	176	155	180	160	141	188	166	400	322	279	185		
SRev CCGT-Gas		802	812	744	829	839	865	1074	1149	1143	1487	1383	1353	1154	1218	1309	1171	770	712	653	251	427	380	270	358	501	568	775	291	259	232	276	250	228	157	395	870	1187	1078	694	556	706	851	1066	1283	1434	1340	1083	1335		
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		
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	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		
Syncon		827	827	827	1015	1015	1015	1015	1015	1015	1015	1015	1015	914	676	676	676	827	489	489	525	338	338	338	338	338	338	338	338	338	338	338	338	0	0	0	0	187	525	374	187	187	187	187	374	374	374	374	374		
Hydro		145	224	177	222	151	147	210	236	211	224	145	127	120	300	305	435	184	341	191	325	409	301	348	348	408	443	348	264	265	384	385	380	315	315	608	552	665	277	271	397	424	419	422	324	378	434	542	610		
S.Reserve Total		2115	2324	2223	2504	2666	2705	2995	3093	3058	3425	3327	3274	2893	2876	2916	2907	2362	2066	1624	1263	1328	1183	1098	1202	1400	1525	1813	1267	1220	1157	1186	1177	782	862	1361	1749	2269	2094	1532	1358	1518	1638	1901	2188	2625	2509	2320	2536		