

Daily System Generation Summary on Monday

Monday, August 17, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,472 MW
Distillate	0 MW
Total TNB	2,472 MW
Total IPP	17,169 MW
Total Co-Gen	0 MW
Total System	22,464 MW

Generation Mix

Type	MWh	Percentage
Hydro	25,258	7.05 %
Gas	31,777	8.88 %
Total TNB	57,035	15.93 %
ST-Coal	240,747	67.24 %
LSS	2,036	0.57 %
Gas	58,544	16.35 %
Total IPP	301,327	84.17 %
Co-Gen	371	0.10 %
Total Co-Gen	371	0.10 %
Total Generation	358,733	100.20 %
PLTG	-9	0.00 %
HVDC	725	0.20 %
Interconnection	716	0.20 %
Net Energy	358,017	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	18,704 MW
TNB Generation	3,433 MW
IPP Generation	13,767 MW
Spinning Reserve	1,469 MW
Maximum Demand	17,141 MW
Net Energy	358,017 MWH
Load Factor	87.03 %

Fuel Cost

Total Cost:	51,918,349.70 RM
Cost per Unit	14.47 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	510
Hydro	200
Syncon	718
Thermal	192
Total	1,620

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	35
TJGS	152
Total TNB	187
CBPS	48
NPRI	135
PGLA	69
PLPS	71
Total IPP	323
Total Gas	510
Total Gas Required	510

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	13807	13153	12681	12351	12068	11927	12255	12395	13249	15073	16028	16582	16438	16215	16814	17082	17141	16706	15559	15347	16547	16567	16030	15534

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, September 4, 2020 10:32:15 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	692	693	694	693	692	694	693	553	552	551	552	552	552	601	694	692	693	693	693	692	694	692	692	692
JMAH	U002	692	694	693	697	695	696	695	694	559	554	550	553	554	555	604	695	695	692	697	692	695	693	694	697	696
JMHE	U001	961	813	782	782	782	781	781	778	781	782	781	781	781	782	784	783	781	981	981	980	980	982	979	980	981
JMHE	U002	959	963	782	780	787	779	782	775	779	779	781	780	780	780	783	780	984	980	980	980	981	979	980	980	981
JMIG	U001	671	672	673	672	672	672	671	672	672	673	671	673	671	672	671	675	670	672	671	669	670	677	670	677	671
JMIG	U002	673	677	668	672	673	672	673	668	671	673	670	674	674	669	679	671	682	672	669	677	677	670	669	677	675
JMIG	U003	666	667	667	665	665	667	666	666	660	665	667	666	665	663	666	672	668	664	664	666	665	666	667	664	667
JMIG	U004	873	786	783	785	782	785	782	782	785	786	785	785	785	850	938	972	977	975	973	972	975	976	977	976	977
JMIG	U005	733	730	733	735	733	733	731	731	728	730	738	727	725	729	719	733	724	733	727	727	719	719	702	699	700
PKLG	U003	278	280	282	279	275	278	279	277	279	278	281	279	279	280	280	281	280	278	272	275	274	276	278	277	277
PKLG	U004	279	280	276	284	281	276	279	281	279	279	282	282	282	279	279	279	279	281	279	281	277	281	279	279	278
PKLG	U006	360	360	357	357	360	359	359	358	360	355	358	358	360	358	356	358	362	357	356	358	360	355	357	358	356
TBIN	U001	688	504	699	691	690	690	691	689	692	689	691	690	690	690	690	689	687	690	690	693	689	689	689	687	691
TBIN	U003	675	688	694	693	690	690	694	691	690	694	697	693	689	693	689	689	691	695	690	694	694	690	691	689	692
TBIN	U004	963	908	823	781	783	783	783	782	783	782	783	782	782	782	782	850	939	982	982	983	983	981	982	982	981
Total ST-Coal		10163	9714	9605	9567	9561	9553	9560	9537	9271	9269	9289	9273	9268	9269	9366	9567	9550	10102	10257	10337	10340	10333	10298	10301	10308
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	358	361	359	222	224	223	219	215	222	223	223	223	225	229	225	218	223	262	304	347	362	358	358	354	354
GLGR	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	39	74	99	81	
GLGR	GT02	95	95	95	96	95	95	95	95	96	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
GLGR	ST1C	38	38	38	38	38	38	38	38	39	38	39	38	39	38	38	38	38	38	38	38	38	38	38	38	38
NPRI	BLK1	370	469	347	350	331	328	354	320	370	328	341	387	449	533	485	385	400	331	498	499	511	513	512	503	498
NPRI	BLK2	370	449	343	352	328	327	352	316	368	329	339	389	439	533	463	358	400	328	500	484	512	517	515	491	481
PCGP	PGRG	602	600	606	503	302	300	187	180	181	181	181	181	184	189	183	403	605	603	602	588	598	604	602	592	585
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	136	206	163	166	188	180	163	
PGLA	GT12	186	186	187	186	184	186	187	182	186	186	186	186	186	194	193	191	191	191	192	192	237	192	195	219	211
PGLA	ST10	91	91	91	91	91	91	90	90	90	90	90	90	90	90	91	91	90	90	86	84	219	212	201	220	214
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	128	114	115	123	112	111	112
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	127	116	116	116	121
PLPS	GT13	132	132	132	123	123	122	123	123	122	123	122	122	123	122	122	123	124	122	123	123	112	112	120	108	108
PLPS	ST18	60	59	58	59	59	58	58	58	59	58	58	59	58	58	57	59	59	59	130	135	134	204	197	197	196
SPGP	BLK1	0	0	78	108	158	0	0	0	0	0	0	0	0	0	0	0	0	70	171	160	183	232	282	287	383
TJGS	GT1A	175	170	173	173	174	173	174	168	175	174	175	175	174	174	174	171	171	236	127	130	149	205	205	206	197
TJGS	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	168	224	119	125	142	202	200	200
TJGS	ST1C	91	91	91	88	88	88	88	88	88	88	88	88	88	88	88	88	88	239	179	168	179	218	214	222	215
TJGS	GT2A	156	155	156	156	157	157	157	157	157	154	155	155	154	156	156	155	155	122	236	236	238	236	236	239	239
TJGS	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	119	0	0	0	0	0	0
TJGS	ST2C	102	102	102	102	102	102	102	102	101	101	101	101	101	101	101	97	97	182	138	133	133	133	133	133	133
Total CCGT-Gas		2826	2998	2856	2647	2454	2288	2224	2132	2255	2169	2193	2289	2405	2600	2472	2470	2985	3412	3527	3819	4162	4349	4476	4534	4464
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	22	21	22	22	22	22	22	22	22	22
BSIA	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	22	23	23	23	23	23	23
BSIA	HY03	12	13	12	12	12	12	12	12	12	12	12	13	13	13	12	12	23	23	23	23	23	23	23	23	23
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY03	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

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	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		
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	124	124	124	123	124	124	123	124	124	123	124	
HTRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125	124	123	123	124	124	123	124	124	124	123	
KNRG	HY01	22	23	23	23	22	22	0	0	0	0	0	0	0	0	26	26	36	36	36	36	36	36	36	36	36	
KNRG	HY02	23	23	24	23	23	23	0	0	0	0	0	0	31	24	37	37	37	37	37	37	37	37	37	37	37	
KNRG	HY03	23	23	24	23	23	23	24	23	24	24	24	24	23	24	36	36	36	36	36	36	36	36	36	36	36	
KNYR	HY01	101	98	98	98	98	99	98	98	98	58	77	100	101	100	101	101	101	97	97	97	99	99	99	99	99	
KNYR	HY02	100	99	99	99	99	99	99	99	99	59	79	100	94	82	100	100	100	97	97	100	100	99	98	96	96	
KNYR	HY03	102	100	101	101	100	100	99	100	100	101	101	102	102	100	101	101	101	97	97	100	101	99	98	96	99	
KNYR	HY04	97	97	97	97	97	97	97	97	97	98	79	98	101	100	100	101	101	97	97	97	99	99	99	96	99	
LPIA	HY01	15	15	15	16	16	16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	18	18	19	
LPIA	HY02	13	13	15	15	15	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	18	19	
MNOR	HY01	6	6	6	6	6	6	2	2	2	2	2	2	2	3	3	3	3	6	6	6	6	6	6	6	6	
PGAU	HY01	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY03	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	0	0	0	0	0	0	
SIHY	HY02	50	50	50	50	26	0	0	0	0	0	0	0	0	0	30	50	50	50	50	30	30	30	30	30	30	
SIHY	HY03	50	50	50	50	50	0	0	0	0	0	0	0	0	0	30	50	50	50	50	50	30	30	30	30	30	
SYPS	HY01	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	
SYPS	HY02	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	
SYPS	HY03	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	
SYPS	HY04	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	62	82	81	82	82	82	81	80	81	82	81	80	
TMGR	HY02	33	33	33	33	33	33	31	33	33	33	33	33	33	33	64	85	83	85	85	85	84	82	83	85	85	
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	60	80	78	80	80	80	78	77	78	80	80	
TMGR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	31	61	81	79	81	81	79	78	79	81	81	78	
UJLI	HY01	91	98	-1	-1	-1	-1	-1	-1	-1	-1	93	141	9	-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	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	
UPIA	HY02	6	6	6	6	6	6	6	5	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	
Total Hydro		847	782	687	707	681	585	538	533	536	537	478	479	618	681	538	541	645	867	1190	1311	1342	1385	1500	1483	1397	1290
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	5	6	7	11	18	27	12	17	17	27	21	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	6	12	15	18	20	0	0	0	0	0	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8	9	11	14	32	2	4	3	1	1	12	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	8	7	11	18	24	43	40	29	46	42	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	8	12	16	20	22	20	27	29	8	15	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	12	18	28	34	37	29	15	48	29	16	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	15	20	25	30	34	31	29	29	17	45	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	15	21	25	30	37	39	36	36	32	50	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	4	14	21	17	25	39	26	37	33	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	8	13	15	13	16	18	41	33	36	22	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	4	36	66	99	146	193	238	254	251	220	251	240	
PCUF	CUFG	3	1	5	3	3	5	4	3	5	3	2	3	3	4	4	4	4	4	4	3	3	3	37	37	37	37
PCUF	CUFK	3	0	5	3	4	4	6	2	4	2	2	3	2	4	4	4	3	6	3	3	3	3	3	3	3	
Total Co-Gen		6	1	10	6	7	9	10	5	9	5	4	6	5	7	8	8	7	10	7	6	6	6	40	40	40	

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																									
Total Gen		13842	13495	13158	12927	12703	12435	12332	12207	12071	11980	11964	12047	12296	12557	12384	12590	13223	14457	15080	15619	16043	16311	16568	16609	16429	16277	16222	16514	16860	17132	17137	17155	17235	17142	16811	16150	15593	15321	15396	16162	16587	16632	16582	16287	16034	15879	15540	15261	
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	0
TIE-HVDC		30	30	30	31	31	30	30	31	31	31	31	31	31	30	30	30	30	31	31	29	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	31	31	31	31	31	31	31	31	31	30		
TIE-PLTG		12	34	-19	12	-1	-11	-41	52	-21	26	13	23	16	35	-34	-8	-49	26	-17	30	-7	-63	-36	-49	-33	-12	-15	-43	23	7	33	15	70	39	82	62	12	-25	26	-41	16	-17	-9	-51	-20	-33	-19	-8	
Interconnection		42	64	12	42	29	18	-12	83	10	56	44	54	48	65	-4	22	-19	57	14	59	22	-34	-7	-19	-2	18	14	-13	53	37	62	45	101	68	112	92	41	5	56	-11	47	14	22	-20	11	-2	13	22	
System Total		13807	13438	13153	12892	12681	12424	12351	12131	12068	11931	11927	12000	12255	12499	12395	12575	13249	14407	15073	15567	16028	16352	16582	16635	16438	16266	16215	16534	16814	17102	17082	17117	17141	17081	16706	16065	15559	15323	15347	16180	16547	16625	16567	16314	16030	15888	15534	15246	
SRev ST-Coal		328	492	480	477	497	491	487	498	625	620	601	613	621	624	622	484	495	317	270	190	187	194	229	196	189	180	182	171	184	176	173	194	188	197	201	184	197	167	177	179	179	174	178	183	192	175	186		
SRev CCGT-Gas		662	490	710	949	1192	1200	1264	1356	1233	1319	1295	1199	1083	888	1016	1018	1015	949	843	576	434	514	386	381	453	738	755	763	682	379	486	461	347	373	668	1080	1227	1532	1414	659	518	477	405	697	622	584	643	657	
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	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Syncon		941	941	1128	977	977	1128	1128	1128	1128	1128	977	1128	941	941	941	1128	1128	953	802	827	676	827	489	489	489	827	827	827	640	827	827	827	676	676	827	827	827	676	827	676	640	640	827	827	827	489	766	766	
Hydro		275	240	148	279	305	150	117	122	119	118	328	176	224	161	304	114	200	177	230	84	204	85	308	325	411	130	123	257	375	138	136	137	257	257	131	88	82	215	79	206	195	191	124	127	94	219	159	144	
S.Reserve Total		2206	2163	2466	2682	2971	2969	2996	3104	3105	3185	3201	3116	2869	2614	2883	2744	2838	2396	2145	1677	1501	1620	1412	1391	1542	1875	1887	2018	1881	1520	1622	1619	1470	1503	1827	2179	2333	2590	2497	1720	1532	1482	1530	1829	1726	1484	1743	1753	