

Daily System Generation Summary on Tuesday

Tuesday, October 20, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,117 MW
Distillate	0 MW
Total TNB	2,117 MW
Total IPP	16,498 MW
Total Co-Gen	0 MW
Total System	21,084 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,415	4.90 %
Gas	45,339	12.06 %
Total TNB	63,754	16.95 %
ST-Coal	222,566	59.19 %
LSS	2,868	0.76 %
Gas	86,676	23.05 %
Total IPP	312,110	83.00 %
Co-Gen	164	0.04 %
Total Co-Gen	164	0.04 %
Total Generation	376,028	100.00 %
PLTG	702	0.19 %
HVDC	-698	-0.19 %
Interconnection	4	0.00 %
Net Energy	376,024	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	18,820 MW
TNB Generation	3,252 MW
IPP Generation	14,392 MW
Spinning Reserve	1,169 MW
Maximum Demand	17,693 MW
Net Energy	376,024 MWH
Load Factor	88.55 %

Fuel Cost

Total Cost:	46,046,526.08 RM
Cost per Unit	12.24 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	458
Hydro	456
Syncon	415
Thermal	202
Total	1,531

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	48
TJGS	143
Total TNB	191
CBPS	49
KLPP	87
NPRI	145
PGLA	102
PLPS	79
SGB3	46
SKSP	21
Total IPP	530
Total Gas	721
Total Gas Required	721

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	15459	14777	14277	13817	13473	13331	13409	13272	13822	15482	16153	16707	16636	16535	17193	17540	17656	17145	16049	16328	17058	16897	16508	16045

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, November 5, 2020 8:33:38 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Tuesday

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	693	692	693	689	693	692	693	693	691	693	691	693	694	693	693	699	693	692	692	693	693	694	692	691	695	695	692	694	692	
JMAH	U002	102	185	229	334	419	556	609	716	702	700	699	693	693	695	693	695	695	692	694	691	694	694	694	693	696	697	698	694	694	
JMHE	U001	977	980	898	904	902	852	849	853	850	852	853	850	849	850	850	851	854	900	974	980	979	980	980	976	982	983	980	974	975	
JMHE	U002	979	975	899	901	901	850	848	850	849	851	851	850	849	850	848	851	849	851	917	978	979	981	978	980	976	983	980	975	978	
JMJG	U001	671	671	668	667	679	674	675	672	671	671	672	641	649	671	672	668	671	667	676	675	671	670	672	668	667	669	668	674	667	
JMJG	U002	673	679	666	674	673	672	669	674	667	677	668	654	643	668	672	672	677	675	670	671	675	679	678	671	669	675	671	672	676	
JMJG	U003	666	666	659	673	666	666	662	664	663	662	666	637	643	666	664	660	662	664	665	663	663	662	666	660	666	664	678	677	663	
JMJG	U004	972	973	960	903	900	892	857	860	859	862	861	861	860	861	862	834	866	921	979	977	977	973	968	969	945	944	949	950	980	
JMJG	U005	796	795	734	0	0	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	U004	280	279	279	279	278	280	278	278	274	278	276	277	283	278	278	279	276	277	272	278	279	276	275	273	271	278	278	276	279	
PKLG	U005	465	466	468	467	464	466	467	465	466	466	460	467	471	468	470	465	460	468	458	469	466	470	467	467	466	465	467	468	468	
PKLG	U006	450	450	451	447	445	448	449	446	449	447	449	449	450	449	449	446	451	445	448	450	447	449	449	449	447	449	449	447	451	
TBIN	U002	216	213	211	212	212	210	211	211	217	211	212	217	214	213	212	211	214	214	213	213	214	219	217	218	218	216	223	219	219	
TBIN	U003	691	687	690	690	690	688	691	692	689	690	690	687	689	687	689	689	691	689	695	690	694	692	690	692	693	692	690	689	689	
TBIN	U004	982	983	955	902	904	885	852	853	854	853	853	852	852	851	853	852	900	984	984	982	982	984	983	983	983	983	985	982	983	
Total ST-Coal		9613	9694	9460	8742	8826	8831	8810	8927	8901	8913	8901	8831	8837	8905	8899	8894	8874	8960	9208	9415	9410	9423	9413	9507	9495	9503	9493	9507	9375	
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	
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	
CBPS	BLK2	352	330	222	258	301	266	220	224	217	223	223	223	223	208	219	226	264	313	340	361	361	365	359	360	360	360	348	349	359	
GLGR	GT01	88	68	68	69	69	68	66	67	67	68	69	68	67	67	68	68	66	67	68	67	66	83	101	66	67	65	67	85	100	
GLGR	GT02	87	68	67	68	68	68	68	68	68	68	68	68	67	67	68	68	67	67	68	67	68	67	87	100	67	67	68	67	100	
GLGR	ST1C	88	72	72	72	72	72	72	72	72	72	72	72	72	73	72	72	72	72	72	72	72	72	91	74	72	72	81	91	92	
KLPP	GT13	104	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	102	137	135	114	113	134	135	135	136	135	
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	151	155	154	156	156	155	146	145	121	121	155	156	157	
KLPP	GT15	117	133	128	133	135	135	131	130	131	135	131	132	133	132	128	131	133	137	155	154	156	160	160	161	161	128	131	154	160	
KLPP	ST17	141	106	54	54	54	53	56	53	51	56	51	57	57	54	54	56	56	129	137	134	134	135	193	202	202	187	188	202	202	
NPRI	BLK1	516	500	491	476	506	458	427	332	322	412	332	337	466	404	312	329	465	514	512	512	511	511	511	512	505	513	514	514	516	
NPRI	BLK2	515	515	527	527	529	455	388	327	317	330	329	326	324	329	308	325	502	516	517	518	517	512	321	320	308	525	521	521	520	
PCGP	PGRG	584	585	603	604	606	605	590	381	303	182	180	182	302	303	183	184	603	602	602	603	603	593	600	601	602	603	605	603	603	
PGLA	GT11	159	160	170	164	170	165	162	164	160	164	165	164	164	165	158	163	167	166	164	168	169	173	185	165	161	162	164	210	212	
PGLA	GT12	164	164	173	168	172	169	164	168	164	168	168	168	166	167	160	166	169	168	167	173	173	175	187	168	163	167	167	214	216	
PGLA	ST10	199	198	203	204	204	199	202	203	202	202	202	202	204	203	201	201	203	203	203	201	205	207	216	202	202	202	225	245	241	
PLPS	GT11	123	125	129	130	129	129	126	129	124	129	129	127	129	128	124	123	126	126	127	126	128	127	122	127	118	127	127	121	140	
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	103	134	134	135	134	133	134	132	132	130	142	130	142	
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	114	123	123	118	134	123	138	
PLPS	ST18	57	58	58	57	58	57	57	57	57	57	57	56	58	58	55	58	58	122	141	141	141	141	141	138	202	206	211	201	212	
SGB3	GT32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77	132	
SGB3	GT33	109	109	112	113	113	112	108	111	109	113	112	111	111	108	110	111	112	113	112	113	114	140	139	110	112	113	113	138	126	125
SGB3	ST34	56	54	55	55	56	56	57	57	56	56	56	56	56	56	56	56	56	56	57	57	63	63	59	57	57	57	67	129	137	
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	71	141	
SPGP	BLK1	724	724	722	719	714	716	716	717	718	717	718	734	729	731	730	728	729	725	725	721	721	731	729	727	382	191	190	194	82	78
SPGP	BLK2	326	357	361	364	362	365	363	361	363	364	363	364	363	364	365	362	365	362	364	360	362	362	361	362	361	363	363	361	729	

[illegible]

Daily MW Generation on Tuesday

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	4	3	4	5	3	3	3	4	3	4	3	4	4	5	4	5	3	4	3	4	3	4	4	3
PCUF	CUFK	3	2	3	4	4	3	4	4	3	5	5	4	1	5	3	4	3	5	2	3	3	2	2	2
Total Co-Gen		7	5	7	9	7	6	7	8	6	8	10	8	4	9	6	8	7	8	6	7	7	6	4	4
Total Gen		15510	15148	14800	14524	14279	14064	13853	13629	13489	13420	13320	13253	13402	13540	13277	13320	13775	14882	15429	15904	16158	16496	16716	16719
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		-29	-29	-29	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		86	99	60	30	39	34	71	42	51	-19	24	29	29	13	41	46	-12	34	-16	9	41	23	44	-15
Interconnection		57	70	31	0	10	6	42	13	22	-48	-5	0	0	-16	12	17	-41	5	-46	-21	12	-6	16	-44
System Total		15459	15084	14777	14532	14277	14066	13817	13622	13473	13474	13331	13260	13409	13563	13272	13309	13822	14884	15482	15932	16153	16509	16707	16770
SRev ST-Coal		302	221	603	517	630	510	602	510	518	512	523	589	579	514	517	528	520	511	407	200	205	192	202	228
SRev CCGT-Gas		681	1043	964	930	842	1019	1210	1552	1679	1670	1754	1751	1622	1551	1739	1766	1669	969	809	779	650	588	562	644
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		1015	1102	1102	361	800	1102	1102	1102	1102	1102	1102	1102	1102	1102	1102	850	1001	827	827	676	374	374	374	374
Hydro		246	194	117	452	423	166	166	165	170	191	195	194	193	191	162	202	194	388	155	160	65	192	447	454
S.Reserve Total		2244	2560	2786	2260	2695	2797	3080	3329	3469	3475	3574	3636	3496	3358	3520	3598	3485	2718	2372	1966	1747	1648	1585	1700