

Daily System Generation Summary on Tuesday

Tuesday, November 17, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,372 MW
Distillate	0 MW
Total TNB	2,372 MW
Total IPP	17,169 MW
Total Co-Gen	0 MW
Total System	22,364 MW

Generation Mix

Type	MWh	Percentage
Hydro	17,531	4.85 %
Gas	38,055	10.54 %
Total TNB	55,586	15.39 %
ST-Coal	239,602	66.35 %
LSS	2,362	0.65 %
Gas	63,360	17.55 %
Total IPP	305,324	84.55 %
Co-Gen	281	0.08 %
Total Co-Gen	281	0.08 %
Total Generation	361,191	100.02 %
PLTG	765	0.21 %
HVDC	-700	-0.19 %
Interconnection	65	0.02 %
Net Energy	361,126	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:	14:30:00 Hour
Total Set On Bus	18,241 MW
TNB Generation	3,167 MW
IPP Generation	13,993 MW
Spinning Reserve	1,068 MW
Maximum Demand	17,257 MW
Net Energy	361,126 MWH
Load Factor	87.19 %

Fuel Cost

Total Cost:	43,813,644.42 RM
Cost per Unit	12.13 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	237
Hydro	402
Syncon	532
Thermal	265
Total	1,436

Time Weather Temperature

Afternoon	Cloudy	33
Morning	Cloudy	27

Gas Usage

Station	(mmscfd)
GLGR	51
TJGS	199
Total TNB	249
CBPS	50
NPRI	158
PGLA	7
PLPS	60
SKSP	36
YPKA	26
Total IPP	336
Total Gas	585

Total Gas Required 585

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	14549	13935	13344	13014	12729	12556	12706	12757	13177	15013	15923	16544	16553	16481	17060	17168	17134	16661	15763	15930	16089	15745	15146	14794

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, December 1, 2020 9:54:08 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	631	629	632	632	632	632	633	632	632	633	632	633	632	633	632	632	633	630	632	633	631	633	633	634	633	634	633	632	632	632			
JMAH	U002	452	452	456	452	454	455	456	452	454	454	449	454	454	452	454	452	453	422	422	424	424	424	423	423	420	424	421	420	369	373			
JMHE	U001	974	984	950	781	785	780	779	777	778	782	781	781	782	783	782	956	980	985	981	981	977	982	977	981	982	980	982	978	982	982			
JMHE	U002	978	983	947	779	781	779	780	782	775	779	779	781	780	780	781	986	981	984	982	981	983	977	981	981	980	982	980	978	984	981	981		
JMJG	U002	671	674	673	671	675	680	666	621	585	507	500	489	500	542	551	546	581	667	675	671	673	675	671	672	669	672	672	671	674	673	668	671	
JMJG	U003	663	662	665	660	664	665	662	607	581	502	505	506	506	545	544	545	579	662	662	666	662	664	667	670	662	667	663	666	668	662	665	657	
JMJG	U004	929	879	819	811	752	719	715	718	716	714	716	717	717	716	718	716	772	858	932	935	933	933	933	933	934	934	933	958	957	948	947	870	
JMJG	U005	795	778	699	699	700	700	700	705	700	700	701	700	700	702	700	699	700	703	779	803	797	800	800	801	801	799	800	800	801	795	796	780	
PKLG	U003	278	279	278	279	280	278	271	276	274	274	271	276	274	275	277	277	280	281	281	280	281	280	281	282	281	279	282	282	283	280	281	287	276
PKLG	U005	467	467	468	467	470	475	461	455	462	465	461	462	462	464	460	467	467	465	468	468	467	468	466	466	468	470	466	465	468	466	468	466	
PKLG	U006	447	447	447	450	447	447	448	446	447	449	449	449	449	445	449	445	447	445	445	447	448	447	444	447	444	445	445	444	445	449	449	446	446
TBIN	U001	689	690	691	690	689	691	689	688	690	689	689	688	689	686	690	690	689	690	690	689	690	690	690	691	689	689	687	690	689	689	691	690	689
TBIN	U002	687	690	692	694	693	689	688	690	694	692	692	690	690	691	690	690	694	695	691	690	691	690	689	691	690	691	689	689	690	691	691	690	689
TBIN	U003	690	687	690	691	692	692	693	690	691	687	690	690	691	691	691	689	691	691	691	690	691	690	691	689	689	690	691	689	689	691	691	690	689
TBIN	U004	981	983	973	885	796	782	783	783	783	782	780	782	784	782	783	782	863	951	981	983	982	983	983	982	982	982	982	982	982	982	982	982	
Total ST-Coal		10332102841008096419510946494269324926191099097901390299108911891069235945299881017310288103671037510375103701035510355103621036310352103571034010345103421033010334103411033610346103371034010343103411035510336103581023610186																																
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		
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		
CBPS	BLK2	353	233	218	226	225	214	228	221	218	224	215	222	222	221	229	228	328	357	369	363	363	362	362	362	359	362	362	362	355	362	362	362	
GLGR	GT01	66	68	69	68	68	68	67	67	68	68	67	69	69	68	68	68	68	69	68	104	104	104	103	105	103	103	104	104	103	103	103	67	
GLGR	GT02	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	106	104	104	104	104	104	104	104	104	103	103	104	104	67	
GLGR	ST1C	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	71	72	89	93	94	94	94	94	94	94	94	94	94	91	91	
NPRI	BLK1	501	512	506	511	515	500	512	511	504	504	499	511	512	518	512	496	517	517	523	516	519	518	516	517	514	523	517	512	520	515	514	515	
NPRI	BLK2	512	524	517	523	527	513	523	520	515	517	510	523	523	527	524	523	522	523	529	524	527	524	523	522	523	520	529	523	517	525	522	521	
PCGP	PGRG	589	605	595	604	608	592	603	603	594	598	585	602	604	610	604	603	602	601	613	604	609	601	603	602	603	599	612	604	596	608	602	601	
PGLA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112	158	158	158	159		
PLPS	GT11	129	129	129	129	129	128	128	129	129	129	129	129	129	129	129	129	129	129	127	127	131	130	130	130	131	132	129	126	130	129	130	131	
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	140	142	143	143		
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	70	142	141	142	142	142	142	139	141	141	141	141		
PLPS	ST18	59	57	56	57	58	57	56	57	57	56	57	55	57	56	57	57	57	57	57	112	142	142	143	143	143	142	213	213	212	211	211		
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	15	18	60	119	170	342	347	347	356	356	353	357	355	357	359	358	357	357	348	347		
SPGP	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	92	89	160	287	288	671		
TJGS	GT1A	220	151	148	203	215	221	137	137	136	138	131	142	141	143	143	142	140	224	228	224	227	228	226	226	228	222	226	225	226	228	227		
TJGS	GT1B	208	140	140	192	201	203	124	128	123	123	131	133	130	132	128	211	217	217	213	214	214	214	212	215	210	213	216	215	216	216	217		
TJGS	ST1C	242	203	182	211	233	233	175	172	172	172	174	174	174	174	222	241	245	245	245	245	245	245	245	245	245	245	245	245	245	245	241		
TJGS	GT2A	216	216	215	183	127	127	127	126	128	128	128	128	128	128	126	129	215	215	215	215	215	216	216	215	213	213	214	214	214	213	213		
TJGS	GT2B	212	212	212	177	125	125	125	122	125	125	125	124	124	124	125	124	211	211	211	211	211	211	213	212	212	211	211	210	210	210	212		
TJGS	ST2C	256	256	256	242	199	197	197	197	197	197	197	197	197	197	197	197	256	256	256	256	256	256	258	258	258	258	258	258	258	258	255		
YPKA	GT21	131	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	65	126	127	127	127	127	127	127	127	125	127	126	124	124			
YPKA	ST20	62	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	39	57	58	59	59	59	59	59	59	58	58	58	57	57			
Total CCGT-Gas		3896	3546	3483	3566	3470	3419	3242	3229	3206	3219	3176	3247	3267	3283	3319	3359	3529	4256	4328	4397	4537	4632	4625	4633	4630	4614	4656	4696	5018	5099	5143		
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	0	0	0	0	0	0		
BSIA	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	11			
BSIA	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	23	23	23	23	23	23	23	23	23	23	11		
BSIA	HY03	24	24	24	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	0	0	0	0	0	11	11	11	11	23	23	23	12		
CEND	HY01	9	9	9	9	10	9	9	9	9	9	10	9	9	9	9	9	9	9	10	9	9	9	9	9	9	9	9	9	9	10	9		
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		

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		
CEND	HY03	9	9	10	10	9	10	10	10	10	9	10	10	10	9	9	9	10	9	9	9	9	9	10	9	9	
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	8	
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	
HTRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KNRG	HY01	23	23	23	36	36	36	36	0	0	0	0	0	0	0	0	0	36	36	36	36	36	36	36	36	36	36
KNRG	HY02	21	22	21	21	21	20	21	0	0	0	0	0	0	0	0	0	37	37	37	37	37	37	37	37	37	37
KNRG	HY03	21	22	21	36	36	36	36	37	37	37	37	37	37	37	36	36	36	36	36	36	36	36	36	36	36	
KNYR	HY01	-1	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	58	61	61	61	59	95	94	95	95	94	94	-1	
KNYR	HY03	100	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	95	95	95	95	95	54	52	50	
KNYR	HY04	60	98	59	64	68	58	62	58	59	59	58	64	77	80	64	59	59	62	82	70	74	63	81	91	60	
LPIA	HY01	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	20	20	20	20	20	21	21	21	22	
LPIA	HY02	23	23	23	23	23	23	23	23	23	23	23	23	22	22	22	22	20	20	20	20	20	22	22	22	22	
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	4	4	4	4	6	6	6	6	6	6	6	6	6	
PGAU	HY01	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	20	20	20	20	20	-1	-1	-1	
PGAU	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PGAU	HY03	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	50	50	50	50	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	50	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	17	17	17	17	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	17	17	17	17	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	17	17	17	17	17	17	17	17	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	17	17	17	17	17	17	17	17	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	36	36	36	36	36	82	82	82	82	
TMGR	HY02	0	9	88	43	3	32	44	43	43	43	41	51	63	60	46	45	43	43	62	52	55	47	69	78	45	
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	84	84	84	84	83	83	84	83	
TMGR	HY04	39	80	41	45	45	40	42	42	41	41	39	46	59	56	43	42	42	41	57	48	52	42	66	75	43	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	101	102	102	-1	-1	-1	-1	-1	-1	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	9	94	90	95	93	94	94	-1	-1	
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
UPIA	HY02	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
Total Hydro		372	363	383	343	328	321	339	277	277	276	272	296	332	329	286	268	315	410	468	557	729	904	1227	1355	1155	
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	0	0	0	0	0	0	0	0	0	0	0	0	
BKLS	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	
BSLS	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	
CHLS	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	
GBLS	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	
GELS	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	
GNLS	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	
JSLS	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	
KKLS	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	
KRLS	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	
MCLS	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	
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	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	
STLS	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	

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																									
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	1	25	79	131	185	310	319	319	315	320	377	351	297	284	360	301	242	160	145	93	60	32	17	6	1	1	1	0	0	0	0	0	0	0			
PCUF	CUFG	4	6	5	6	5	4	4	5	5	5	5	7	6	5	6	6	7	6	5	5	7	5	5	6	5	6	5	6	6	6	6	5	7	6	5	6	5	6	5	5	6	6	5	5	5	5	6		
PCUF	CUFK	5	8	6	9	8	3	5	9	6	6	5	9	7	9	6	6	3	7	7	7	9	7	5	7	6	5	7	5	3	6	5	1	5	4	4	6	7	8	7	6	4	5	8	7	12				
Total Co-Gen		9	14	11	15	13	7	9	14	11	11	10	16	13	14	12	12	10	13	13	12	14	14	10	12	12	10	13	12	11	13	11	9	12	11	6	12	10	9	12	12	13	13	12	9	10	13	12	18	
Total Gen		14609	14207	13957	13565	13321	13211	13016	12844	12755	12615	12555	12572	12641	12734	12736	12770	13168	14262	14982	15449	15887	16236	16552	16695	16544	16518	16482	16733	17048	17173	17146	17226	17121	17010	16694	16228	15725	15630	15922	16214	16136	15964	15779	15629	15198	15296	14776	14622	
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			
TIE-HVDC		-29	-29	-28	-28	-28	-29	-29	-29	-29	-28	-30	-30	-29	-29	-29	-29	-30	-28	-30	-28	-30	-29	-30	-30	-29	-29	-29	-28	-31	-30	-30	-30	-30	-28	-28	-27	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29			
TIE-PLTG		99	62	61	-8	16	37	40	61	65	60	41	-4	-23	26	20	24	31	-24	10	-9	5	-26	49	25	32	109	42	42	29	-44	17	24	28	23	75	-14	1	54	31	53	87	43	74	65	92	4	23	3	
Interconnection		70	33	33	-36	-12	8	12	32	36	31	11	-32	-53	-4	-10	-5	2	-53	-20	-38	-25	-54	19	-4	2	79	13	12	0	-73	-11	-6	-2	-7	44	-44	-27	26	3	24	58	14	45	35	63	-25	-7	-26	
System Total		14549	14185	13935	13612	13344	13213	13014	12822	12729	12596	12556	12616	12706	12749	12757	12786	13177	14326	15013	15498	15923	16301	16544	16710	16553	16451	16481	16733	17060	17257	17168	17243	17134	17028	16661	16283	15763	15615	15930	16201	16089	15961	15745	15605	15146	15332	14794	14659	
SRev ST-Coal		311	358	510	685	670	666	704	800	781	780	647	725	721	726	723	725	670	537	336	245	213	134	269	268	275	288	289	285	281	291	287	274	268	272	282	279	274	279	269	277	274	271	270	260	276	253	324	378	
SRev CCGT-Gas		302	630	693	610	706	757	934	947	970	957	1000	929	1259	1243	1207	1167	997	100	198	272	132	114	121	113	116	132	90	193	197	113	140	142	142	273	351	457	574	947	925	393	350	333	376	371	658	569	668	738	
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		
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	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	0
Syncon		1078	1078	927	1078	927	1078	1078	1179	1179	1179	1179	1179	1179	1179	1179	1179	1078	1078	839	713	612	187	338	338	525	338	338	338	338	338	338	151	151	489	802	990	1091	1091	1004	651	802	676	489	676	763	864	864	864	
Hydro		168	163	294	183	348	205	187	168	168	167	171	147	111	116	159	177	180	210	152	302	356	412	639	360	710	501	565	347	430	331	346	477	726	695	469	241	296	221	146	190	164	140	316	295	334	249	247	193	
S.Reserve Total		1859	2229	2424	2556	2651	2706	2903	3094	3098	3083	2997	2980	3270	3264	3268	3248	3026	1925	1764	1658	1414	1272	1216	1079	1439	1446	1282	1163	1246	1073	1111	1044	1287	1729	1904	1967	2235	2538	2344	1511	1590	1420	1451	1602	2031	1935	2103	2173	