

Daily System Generation Summary on Tuesday

Tuesday, December 15, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,515 MW
Distillate	0 MW
Total TNB	2,515 MW
Total IPP	17,093 MW
Total Co-Gen	0 MW
Total System	21,853 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,666	3.88 %
Gas	35,562	10.10 %
Total TNB	49,228	13.98 %
ST-Coal	205,788	58.43 %
ST-Gas	1,563	0.44 %
LSS	2,431	0.69 %
Gas	92,888	26.37 %
Total IPP	302,670	85.94 %
Co-Gen	204	0.06 %
Total Co-Gen	204	0.06 %
Total Generation	352,102	99.97 %
PLTG	603	0.17 %
HVDC	-701	-0.20 %
Interconnection	-98	-0.03 %
Net Energy	352,200	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	18,001 MW
TNB Generation	2,941 MW
IPP Generation	13,598 MW
Spinning Reserve	1,453 MW
Maximum Demand	16,606 MW
Net Energy	352,200 MWH
Load Factor	88.37 %

Fuel Cost

Total Cost:	42,803,246.34 RM
Cost per Unit	12.15 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	388
Hydro	314
Syncon	786
Thermal	274
Total	1,762

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	26

Gas Usage

Station	(mmcsfd)
GLGR	50
TJGS	202
Total TNB	252
CBPS	50
NPRI	148
PGLA	105
PLPS	85
SGRI	73
SKSP	49
YPKA	49
PKLG	15
Total IPP	574
Total Gas	826
Total Gas Required	826

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	14075	13440	13006	12616	12385	12221	12262	12650	13146	14730	15644	16133	16157	15939	16288	16574	16503	16167	15212	15449	15891	15525	14921	14567

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, January 5, 2021 10:21:15 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	372	369	373	374	372	370	373	373	371	373	371	372	371	372	371	372	371	371	372	371	371	372	371	370	371	370	371	371																					
JMAH	U002	633	629	634	634	633	632	629	635	633	635	633	635	634	633	634	633	634	633	634	633	632	633	635	635	634	636	634	634																					
JMHE	U001	976	902	900	799	801	799	794	805	798	800	802	800	799	803	799	801	798	962	981	979	979	983	980	976	979	977	978	976																					
JMHE	U002	976	901	902	796	801	799	796	805	799	801	801	800	801	800	797	799	800	979	980	981	982	977	980	978	979	977	978	981																					
JMIG	U002	675	672	667	667	671	670	666	658	672	671	671	678	668	668	671	671	669	667	670	666	672	667	667	665	666	673	672	674																					
JMJG	U003	667	666	673	669	668	673	668	670	648	660	673	670	669	663	659	658	663	661	665	666	663	666	662	665	671	662	661	623																					
JMJG	U004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	49	282	346	676																					
JMJG	U005	751	750	752	752	749	751	749	751	749	750	752	748	751	752	751	751	753	748	753	750	752	751	752	751	750	752	748	748																					
PKLG	U003	281	280	282	281	280	279	282	279	277	277	281	280	282	281	283	280	279	278	281	280	280	282	280	278	280	278	283	280																					
PKLG	U004	271	279	275	277	275	270	272	275	277	277	279	276	276	279	288	283	277	277	278	277	278	269	278	286	282	279	274	279																					
PKLG	U005	467	468	468	467	467	468	468	467	466	466	468	468	467	468	469	469	468	467	467	467	468	469	442	424	425	424	424	424																					
PKLG	U006	446	447	446	447	448	451	459	458	451	450	449	443	452	445	449	445	444	449	448	448	449	452	451	447	445	447	447	448																					
TBIN	U001	688	687	686	689	689	690	686	690	689	689	691	687	689	688	687	689	689	688	688	686	689	687	686	689	688	689	688	689																					
TBIN	U002	688	690	693	692	691	694	689	695	695	693	695	694	692	692	690	692	691	689	691	691	692	689	692	693	693	691	691	689																					
TBIN	U003	688	688	691	690	689	690	688	688	689	690	691	687	692	689	690	692	688	690	693	690	689	694	690	692	688	694	687	691																					
Total ST-Coal		8579	8428	8442	8234	8234	8236	8219	8249	8214	8232	8255	8245	8240	8231	8239	8232	8228	8566	8590	8590	8591	8603	8582	8561	8572	8554	8557	8550	8548	8539	8541	8548	8552	8554	8562	8594	8811	8876	8987	8967	8990	9029	9009	9029	9019	9072	9122	9184	
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	0	0
PKLG	U002	290	286	290	289	291	291	290	291	293	238	156	107	15	0	0	0	0	0	0	0	0	0	0	0	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		290	286	290	289	291	291	290	291	293	238	156	107	15	0	0	0	0	0	0	0	0	0	0	0	0	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	357	362	362	258	219	217	216	223	223	215	222	222	224	223	223	223	312	361	360	365	364	357	362	362	365	365	366	366	362	362	360	363	359	364	350	357	364	362	364	363	356	364	357	357	357	357	360		
EMPP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	94	95	94	95	95	96	94	95	93	95	95	96	96	96	97	94	95	0	0	0	0	0	0	0	0	0	0	0	0		
GLGR	GT01	67	68	68	68	69	67	67	69	68	68	70	68	69	67	69	69	79	83	85	85	101	101	101	99	101	101	101	100	100	100	100	100	100	99	96	69	105	105	92	68	68	67	69	68	69	0			
GLGR	GT02	67	66	67	68	68	67	68	68	68	68	68	67	68	68	67	79	84	84	84	100	99	100	99	99	99	99	99	100	100	100	100	100	100	100	94	67	67	104	104	90	67	68	67	67	67	68	68		
GLGR	ST1C	73	72	72	72	72	72	72	72	72	72	72	72	72	72	74	83	83	82	90	91	91	91	91	91	91	91	91	91	91	91	91	91	91	90	72	72	92	93	89	72	72	72	72	72	72	72			
NPRI	BLK1	506	517	515	515	515	418	364	338	323	329	342	473	517	460	529	503	511	517	509	509	510	511	511	514	509	511	514	515	515	513	511	510	517	511	503	490	508	514	511	507	511	502	511	509	509	508	504	504	
NPRI	BLK2	513	524	523	522	522	515	386	316	312	304	319	318	317	319	319	319	321	517	512	510	513	512	512	517	512	517	520	515	514	514	513	517	512	505	492	509	516	513	511	513	502	512	512	511	509	509	508	506	
PCGP	PGRG	590	601	604	603	603	591	590	551	446	443	353	350	353	602	603	602	605	610	601	600	602	603	604	608	601	603	608	608	611	606	605	602	602	610	602	591	577	598	606	602	599	604	593	601	600	600	597	593	
PGLA	GT11	190	186	169	169	168	166	164	169	167	164	167	168	170	167	176	172	181	216	218	218	200	217	180	218	189	216	217	213	219	215	211	207	218	205	198	159	197	217	216	192	207	196	202	197	182	167	166		
PGLA	GT12	194	190	173	169	172	169	169	172	170	168	172	172	172	171	178	175	184	220	222	222	204	220	183	222	192	219	220	214	222	220	219	217	210	221	200	163	200	222	220	195	209	199	207	201	185	170	169		
PGLA	ST10	217	211	216	206	206	203	205	203	203	203	206	206	210	207	212	211	228	235	230	233	240	221	238	233	243	243	236	239	240	240	233	240	240	220	227	207	237	237	239	225	225	225	226	217	227	204	203		
PLPS	GT11	113	115	131	133	133	130	130	130	129	133	132	133	134	134	132	131	137	135	143	133	134	134	133	133	133	136	134	137	134	134	133	135	135	134	129	129	115	141	141	121	130	125	129	116	115	116	68		
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	147	138	137	137	138	137	138	141	138	141	140	138	138	138	140	138	133	132	119	144	145	124	135	127	134	110	0	0	0		
PLPS	GT13	109	111	0	0	0	0	0	0	0	0	0	0	0	0	24	121	145	145	137	130	130	130	129	129	129	134	130	134	130	131	131	131	126	125	111	137	136	117	127	120	126	114	114	114	67				
PLPS	ST18	167	133	59	59	58	57	57	58	58	56	59	58	57	59	58	58	126	145	148	214	211	211	211	210	211	213	211	213	212	210	210	210	209	208	203	216	213	208	202	204	198	134	134	97					
SGRI	GT11	115	110	112	111	111	111	112	111	111	109	112	112	112	110	114	115	109	111	135	138	134	137	134	138	139	139	138	138	137	134	135	137	134	130	106	111	111	107	107	107	107	106	107	107	107	107	107		
SGRI	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	133	140	143	144	138	138	138	138	138	138	137	137	137	137	138	134	135	138	138	138	109	0	0	0	0	0	0	0	0	0	0	0		
SGRI	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	139	136	136	136	136	136	137	136	136	135	147	142	139	135	135	132	107	112	109	108	108	109	9	0	0	0	0	0			
SGRI	ST14	58	60	58	60	59	59	60	60	59	59	59	59	60	59	60	60	127	136	140	201	210	209	209	209	208	212	211</																						

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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
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
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
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
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
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
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
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
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
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
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	3	4	5	3	3	3	2	4	4	4	5	3	2	4	4	5	4	4	5	4	5	4	4	3
PCUF	CUFK	5	5	5	4	4	6	3	6	6	4	4	3	5	5	6	3	5	5	6	6	4	5	4	5
Total Co-Gen		8	9	10	7	7	9	5	10	10	8	9	6	7	10	8	5	9	9	11	7	9	8	9	10
Total Gen		14138	13764	13470	13170	13016	12820	12675	12537	12366	12296	12206	12281	12238	12525	12635	12723	13124	14139	14687	15275	15606	15949	16093	16403
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		-30	-30	-30	-29	-29	-29	-29	-30	-30	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-28
TIE-PLTG		100	74	66	11	45	43	95	0	18	69	21	37	13	-22	22	24	16	9	-6	27	-2	-23	-5	25
Interconnection		70	44	37	-18	17	14	66	-29	-12	41	-8	8	-17	-52	-8	-5	-14	-21	-35	-3	-31	-51	-33	-4
System Total		14075	13727	13440	13195	13006	12813	12616	12573	12385	12262	12221	12280	12262	12584	12650	12736	13146	14168	14730	15285	15644	16007	16133	16414
SRev ST-Coal		288	435	426	427	433	427	440	427	450	434	413	422	428	436	421	431	438	301	276	276	275	265	283	257
SRev CCGT-Gas		783	863	985	1115	1233	1406	1591	1703	1842	1868	1904	1772	1720	1411	1307	1520	1285	695	614	269	377	297	438	271
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	3	0	0	0	0	0	0	0	51	133	53	85	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		1203	1329	1178	1203	1178	1330	1204	1204	1204	1204	1204	1204	1204	1053	1204	1204	1204	1053	1017	866	815	815	941	1128
Hydro		184	121	252	185	248	124	188	125	124	129	125	120	119	120	120	251	118	79	121	250	350	327	245	290
S.Reserve Total		2458	2751	2841	2930	3092	3287	3423	3459	3620	3686	3779	3571	3556	3171	3052	3255	3045	2279	2215	1848	2019	1755	1787	1639