

Daily System Generation Summary on Tuesday

Tuesday, December 8, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,521 MW
Distillate	0 MW
Total TNB	2,521 MW
Total IPP	15,753 MW
Total Co-Gen	0 MW
Total System	21,097 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,630	5.16 %
Gas	43,220	11.97 %
Total TNB	61,850	17.12 %
ST-Coal	196,125	54.30 %
LSS	2,640	0.73 %
Gas	100,392	27.79 %
Total IPP	299,157	82.83 %
Co-Gen	203	0.06 %
Total Co-Gen	203	0.06 %
Total Generation	361,210	100.01 %
PLTG	428	0.12 %
HVDC	-407	-0.11 %
Interconnection	21	0.01 %
Net Energy	361,189	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	18,081 MW
TNB Generation	3,660 MW
IPP Generation	13,248 MW
Spinning Reserve	1,161 MW
Maximum Demand	16,928 MW
Net Energy	361,189 MWH
Load Factor	88.90 %

Fuel Cost

Total Cost:	44,059,979.93 RM
Cost per Unit	12.19 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	267
Hydro	792
Syncon	437
Thermal	122
Total	1,618

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	54
TJGS	212
Total TNB	266
CBPS	55
KLPP	95
NPRI	158
PGLA	110
PLPS	85
SKSP	55
YPKA	50
Total IPP	608
Total Gas	875
Total Gas Required	875

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	14763	14043	13536	13163	12878	12724	12774	12955	13375	15002	15708	16284	16132	15961	16424	16827	16928	16596	15598	15902	16439	16191	15695	15331

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, January 5, 2021 10:18:32 AM Head
Grid System Operator

(Ir. Shanmugam Thoppalan)

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	684	682	682	683	682	682	682	682	681	681	681	682	683	682	682	682	683	681	682	682	682	682	683	681	682
JMAH	U002	693	685	683	685	682	685	679	684	684	684	685	684	684	683	684	686	686	685	684	684	686	683	687	684	683
JMHE	U002	983	979	898	899	848	849	849	854	783	781	782	780	780	778	779	778	777	961	982	983	978	979	981	979	978
JMJG	U002	662	667	669	670	669	667	669	667	667	668	669	668	667	670	669	672	671	672	675	674	674	668	676	676	672
JMJG	U004	972	944	899	854	855	854	801	788	788	788	791	790	791	789	788	789	790	846	902	959	931	933	931	928	930
JMJG	U005	796	797	796	793	796	797	795	796	796	782	780	781	780	781	780	783	798	797	796	794	796	799	801	795	794
PKLG	U003	279	279	277	279	281	280	279	277	278	277	278	277	276	279	276	278	279	277	277	275	275	266	269	274	270
PKLG	U004	277	278	277	276	277	274	276	279	276	278	276	276	280	281	279	278	276	275	274	281	278	276	279	277	279
PKLG	U005	466	467	467	466	468	466	469	468	467	468	467	468	467	466	467	464	466	469	469	468	469	469	469	469	469
PKLG	U006	449	448	450	448	449	449	449	442	449	449	438	441	446	446	451	451	448	460	446	446	443	446	445	448	443
TBIN	U001	694	690	689	691	689	690	692	690	690	692	692	691	691	690	691	690	689	689	691	692	691	692	691	690	691
TBIN	U002	694	693	694	692	692	693	691	692	692	692	693	690	692	690	694	691	693	698	691	694	696	689	693	693	694
TBIN	U003	688	691	690	690	691	689	688	689	691	688	691	690	689	688	686	689	688	686	633	602	603	625	694	686	683
Total ST-Coal		8337	8300	8171	8126	8079	8075	8019	8008	7943	7928	7923	7921	7924	7927	7924	7929	7925	8191	8262	8320	8226	8195	8187	8216	8287
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	351	366	367	360	360	364	364	362	361	304	306	362	362	365	365	359	367	367	361	362	361	364	365	365	365
EMPP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	95	96	95	95	94	94	93	95	95	
GLGR	GT01	101	101	101	100	101	101	100	102	99	100	67	68	68	66	67	67	68	68	103	103	84	83	86	66	66
GLGR	GT02	101	100	101	102	101	101	101	100	102	66	68	68	68	68	70	103	102	85	84	85	68	68	82	102	102
GLGR	ST1C	91	91	91	91	91	91	91	91	91	75	72	72	72	71	72	72	91	92	83	82	83	72	72	77	92
KLPP	GT13	127	108	109	109	93	69	69	70	70	69	73	70	69	70	70	112	112	111	118	140	139	132	137	134	138
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	61	127	150	146	147	144	151	137	146	
KLPP	GT15	146	129	126	126	120	87	87	87	90	87	91	87	89	90	93	88	123	127	125	135	155	152	148	155	152
KLPP	ST17	130	122	123	123	114	90	85	90	90	90	88	88	90	90	91	91	110	123	121	192	204	204	196	204	
NPRI	BLK1	499	509	509	508	510	510	511	512	509	511	513	510	509	508	509	508	516	509	511	511	511	509	511	510	510
NPRI	BLK2	500	512	511	511	512	511	514	512	512	512	514	513	511	510	512	508	519	514	512	512	511	511	513	516	514
PCGP	PGRG	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602
PGLA	GT11	206	198	186	169	177	170	170	169	168	173	182	170	174	178	213	167	217	218	213	204	215	212	212	213	200
PGLA	GT12	210	202	190	171	179	172	172	172	172	174	184	172	176	182	216	171	219	219	218	208	219	216	216	217	216
PGLA	ST10	235	232	221	207	211	205	205	202	210	210	207	205	208	207	237	207	227	239	235	234	239	239	237	239	242
PLPS	GT11	135	140	140	140	137	139	139	139	139	139	133	133	135	134	133	133	134	132	131	115	113	115	134	142	130
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	138	145	133	143	
PLPS	GT13	131	137	136	137	0	0	0	0	0	0	0	0	0	0	58	146	112	112	112	131	137	129	135	117	
PLPS	ST18	141	143	143	144	94	59	58	59	59	57	58	58	58	57	58	58	59	58	139	133	134	135	208	212	212
SKSP	BLK1	334	340	339	337	339	339	337	283	218	221	219	218	219	220	215	220	279	335	326	314	337	329	328	297	267
SPGP	BLK1	295	0	0	0	0	0	0	0	0	0	0	0	0	80	132	159	223	279	362	362	361	361	310	322	305
SPGP	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	0	0	0	0	0	0
TJGS	GT1A	184	215	210	207	214	202	201	192	215	183	205	149	194	227	223	183	234	234	225	221	230	222	226	228	225
TJGS	GT1B	175	203	199	193	202	193	192	179	210	171	204	138	183	214	219	171	218	221	210	204	219	213	211	215	214
TJGS	ST1C	202	237	240	225	228	226	217	205	230	201	200	181	202	232	240	210	240	244	240	237	244	251	244	244	244
TJGS	GT2A	217	218	217	219	217	217	167	128	128	128	128	128	128	128	127	167	136	214	213	213	214	214	214	214	214
TJGS	GT2B	217	217	217	217	216	216	165	127	125	125	125	125	125	125	162	136	213	213	213	211	213	213	211	213	213
TJGS	ST2C	259	259	259	259	259	259	236	211	199	199	199	199	199	199	221	198	255	255	257	257	257	257	257	257	257
YPKA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	130	130	130	130	130	130	130	129	130	
YPKA	GT12	129	68	68	68	68	68	69	69	69	69	69	69	69	69	69	69	69	132	131	131	131	131	131	133	133
YPKA	ST10	59	36	36	36	36	36	32	33	32	32	32	32	32	32	32	32	121	121	121	121	121	121	121	122	122

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	
YPKA	GT21	128	67	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
YPKA	ST20	59	41	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 CCGT-Gas		5964	5593	5549	5361	5181	5027	4884	4696	4698	4550	4540	4417	4542	4645	4755	4683	5087	5513	6071	6345	6471	6519	6670	6649	6514	6562	6433	6617	6663	6827	6827	6852	6848	6823	6861	6802	6631	6517	6783	6751	6709	6751	6728	6658	6463	6308	6136	5763
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	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	0	0	22	21	21	11	12	12	12	12	12	12	22	22	22	22	22	22	22	22	11	11	11	21	21	11	11	11	11	11	11	11	21	
BSIA	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	23	12	12	12	12	12	12	23	23	23	23	23	23	23	23	12	12	12	23	23	12	12	12	12	12	12	12	23		
BSIA	HY03	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	23	23	23	12	12	12	12	12	12	23	23	23	23	23	23	23	23	23	12	12	12	23	23	12	12	12	12	12	12	24		
CEND	HY01	9	9	9	9	9	9	9	9	9	9	10	10	10	9	9	9	9	10	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	
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
CEND	HY03	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	9	9	9	9	9	9	9	9	9	9	9	9	9	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	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
HTRG	HY01	62	-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	-1	63	63	63	125	125	62	-1	-1	-1	-1	124	125	63	63	63	63	63	63	63	125	
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	64	64	64	65	65	65	125	125	63	0	0	0	0	124	124	63	63	63	63	63	63	23	0
KNRG	HY01	20	21	21	20	20	20	20	20	20	21	20	20	20	21	20	21	21	21	20	20	20	34	34	34	34	34	34	34	34	34	34	34	34	34	34	24	24	24	34	34	24	24	24	34	34	34	34	
KNRG	HY02	21	22	22	22	22	22	22	22	21	21	22	22	22	21	22	21	22	22	22	21	21	35	35	35	35	35	35	35	35	35	35	35	35	35	35	23	23	23	35	35	23	23	35	35	35	35		
KNRG	HY03	20	21	21	20	20	20	20	20	20	21	20	21	20	21	20	21	20	21	20	20	34	34	34	34	34	34	34	34	34	34	34	34	34	34	23	23	23	34	34	23	23	34	34	34	34	34		
KNYR	HY01	56	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	99	100	98	97	95	92	66	66	69	65	71	72	98	90	75	66	68	66	64	80	98	70	96	91	88	66	66	65	84	
KNYR	HY02	56	96	81	63	70	61	60	58	60	62	61	60	60	61	61	60	101	68	62	60	82	78	92	65	61	61	61	62	62	69	73	88	83	71	68	64	66	64	65	87	66	91	86	82	67	65	73	80
KNYR	HY03	54	61	60	60	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	102	101	101	102	56	56	55	56	101	101	101	101	101	60	-1	-1	63	101	101	101	101	61	61	61	60	101		
KNYR	HY04	56	-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	-1	102	101	101	101	101	101	-1	-1	-1	54	101	101	101	101	62	62	61	61	101		
LPIA	HY01	23	23	23	23	23	23	23	21	21	19	19	19	19	19	19	19	20	20	20	20	20	20	20	20	20	20	20	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	
LPIA	HY02	22	22	22	22	22	22	22	20	19	19	19	19	19	19	19	19	20	20	20	20	20	20	20	20	20	20	20	22	22	22	22	22	22	21	21	21	21	21	21	21	21	21	21	21	21	21	21	
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5	6	6	6	6	7	7	7	7	7	7	7	7	7	4	4	3	3	3	3	3	3
PGAU	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	22	21	23	23	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	51	51	31	31	31	31	31	31	49	49	49	49	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	0	0	0	0	0	0	50	50	50	30	30	30	30	30	30	30	50	50	50	50	31	31	31	50	50	50	50	50	31	31	31	31	31	0	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	30	30	30	30	50	50	50	50	31	31	31	50	50	50	50	50	31	31	31	31	31	0
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	17	17	17	17	17	17	25	25	25	25	17	17	17	25	25	25	25	25	25	25	25	25	19	0	
SYPS	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	17	17	17	17	17	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY03	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	17	17	17	17	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	17	17	17	17	17	17	25	25	25	25	17	17	25	25	25	25	25	25	25	25	25	25	25	0		
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	34	82	82	82	44	49	42	53	45	54	53	74	70	57	42	42	42	52	60	45	63	55	57	42	42	42	55	
TMGR	HY02	31	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	84	84	84	46	52	44	55	47	56	55	80	74	60	43	44	44	44	59	72	47	70	65	66	44	44	45	58	
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	80	80	80	80	80	80	80	80	80	80	80	80	30	30	30	30	30	30	30												

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
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
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	4	4	4	4	4	5	4	4	5	4	3	4	3	4	4	3	3	3	10	9	7	8
PCUF	CUFK	4	3	5	3	3	4	5	3	3	5	2	4	3	2	3	4	3	3	3	2	4	2	3	5
Total Co-Gen		7	7	9	7	7	8	9	8	7	9	7	8	6	6	8	4	7	5	6	7	6	6	6	6
Total Gen		14816	14346	14063	13808	13527	13361	13162	12956	12893	12730	12737	12611	12737	12821	12932	12860	13340	14279	14975	15354	15648	16007	16274	16287
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	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		90	49	56	25	27	35	34	7	51	34	50	37	1	48	13	23	1	37	9	11	-24	6	27	1
Interconnection		60	20	27	-5	-2	6	6	-22	22	4	21	8	-29	19	-16	-5	-28	8	-20	-18	-53	-24	-3	-29
System Total		14763	14333	14043	13820	13536	13362	13163	12985	12878	12734	12724	12611	12774	12809	12955	12872	13375	14278	15002	15379	15708	16038	16284	16323
SRev ST-Coal		138	175	292	295	292	297	296	298	294	306	311	311	313	306	309	305	309	223	208	155	249	100	138	109
SRev CCGT-Gas		440	518	562	555	592	746	816	1004	1002	1150	1160	1283	1158	1055	945	1096	744	577	333	437	327	340	344	365
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		576	803	890	890	991	991	991	991	991	1178	1027	1027	1027	1178	1178	1178	1178	1178	1178	1004	903	716	716	
Hydro		442	277	202	222	175	184	185	191	190	190	317	319	319	191	189	193	147	179	317	321	431	373	455	485
S.Reserve Total		1596	1773	1946	1962	2050	2218	2288	2484	2477	2824	2815	2940	2817	2730	2621	2772	2378	2157	2036	2091	2011	1716	1653	1675