

Daily System Generation Summary on Tuesday

Tuesday, September 22, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,272 MW
Distillate	0 MW
Total TNB	2,272 MW
Total IPP	16,150 MW
Total Co-Gen	0 MW
Total System	21,245 MW

Generation Mix

Type	MWh	Percentage
Hydro	26,032	7.13 %
Gas	34,822	9.54 %
Total TNB	60,854	16.67 %
ST-Coal	224,327	61.46 %
LSS	2,420	0.66 %
Gas	75,016	20.55 %
Total IPP	301,763	82.67 %
Co-Gen	316	0.09 %
Total Co-Gen	316	0.09 %
Total Generation	362,933	99.43 %
PLTG	-383	-0.10 %
HVDC	-1,700	-0.47 %
Interconnection	-2,083	-0.57 %
Net Energy	365,016	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:	15:00:00 Hour
Total Set On Bus	18,322 MW
TNB Generation	3,505 MW
IPP Generation	13,763 MW
Spinning Reserve	1,046 MW
Maximum Demand	17,486 MW
Net Energy	365,016 MWH
Load Factor	86.98 %

Fuel Cost

Total Cost:	52,615,900.19 RM
Cost per Unit	14.52 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	417
Hydro	508
Syncon	332
Thermal	148
Total	1,405

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	48
SRDG	13
TJGS	194
Total TNB	255
CBPS	50
KLPP	25
NPRI	138
PGLA	103
PLPS	74
SKSP	32
YPKA	28
Total IPP	449
Total Gas	704
Total Gas Required	704

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	14474	13896	13396	12993	12644	12541	12909	12995	13460	15185	15940	16574	16560	16404	17082	17486	17436	16884	15804	15776	16523	16305	15881	15249

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, October 6, 2020 2:31:04 PM

(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	694	691	692	652	547	484	409	402	401	401	402	402	510	597	603	600	603	684	692	693	694	692	693	692	692	691	693	691	695	694	694	691	694	693	693	691	692	693	692	694	690	693	693	691	693	693	693	693		
JMAH	U002	693	691	696	651	550	469	406	402	403	402	401	402	511	600	605	604	603	683	693	692	693	693	694	691	694	693	696	696	693	694	695	695	694	694	693	696	693	692	694	693	694	695	697	693	695	693	693	691		
JMHE	U002	981	902	897	881	852	851	797	783	781	775	779	779	780	782	780	782	778	943	981	983	983	978	978	980	976	982	979	972	979	981	982	977	985	980	982	979	978	976	982	984	980	979	979	982	982	979	975	979		
JMJG	U001	360	366	363	358	353	353	358	349	350	354	349	352	352	354	355	351	352	352	353	354	354	360	352	349	355	354	354	353	352	352	354	354	353	354	352	355	351	359	349	353	354	358	353	354	354	348	347	352		
JMJG	U002	673	672	673	674	673	676	669	673	671	672	676	675	673	672	669	671	671	673	645	663	688	669	663	682	669	672	668	677	671	667	674	678	673	674	676	673	673	671	662	672	670	673	673	677	674	669	670	671		
JMJG	U003	666	668	668	667	664	665	667	667	664	668	666	664	660	664	666	668	667	666	668	662	664	667	663	667	671	662	666	665	669	660	669	668	666	667	666	667	666	667	666	667	664	666	671	667	667	663	667	662	671	662
JMJG	U004	978	960	902	900	853	853	844	790	790	790	791	790	790	789	788	790	791	833	919	982	980	980	979	978	976	975	972	977	975	974	974	976	976	977	976	974	975	977	976	978	977	976	974	974	975	977	977	978		
JMJG	U005	700	699	698	700	698	700	699	698	699	699	699	698	699	700	700	700	699	698	699	700	701	702	700	697	697	697	693	698	700	700	702	700	696	700	698	697	704	699	701	696	696	696	699	700	698	697	697			
PKLG	U003	279	278	277	280	282	279	283	286	282	282	283	279	279	280	278	281	280	284	280	282	283	282	281	283	281	280	284	284	281	282	282	282	281	283	282	278	281	282	281	283	282	283	279	282	280	282	281	282		
PKLG	U004	278	275	270	277	278	284	282	276	278	280	279	275	277	280	274	282	279	277	278	275	271	279	277	284	281	275	276	271	279	280	275	275	276	277	295	283	278	277	278	279	273	277	277	277	280	277	278	269		
PKLG	U005	466	470	467	466	468	468	467	467	467	405	405	437	464	464	466	470	470	468	471	469	470	470	467	468	467	466	467	468	467	466	465	466	467	466	466	467	466	467	468	467	466	464	466	464	466	468	467	462	466	
PKLG	U006	448	447	449	448	446	445	447	446	450	452	449	450	446	449	449	450	449	445	448	449	448	446	451	451	452	449	448	446	447	449	448	449	448	449	445	448	450	446	452	450	450	452	451	449	446	445				
TBIN	U001	691	689	688	689	687	691	687	690	689	689	687	688	689	689	688	689	689	689	686	686	690	689	689	689	686	689	688	690	688	689	688	690	689	688	689	689	689	689	691	690	687	684	688	690	690	690	687	687		
TBIN	U002	694	693	691	692	690	694	695	693	694	693	692	693	694	694	695	692	693	694	690	695	691	694	691	692	696	695	695	694	687	694	694	692	693	694	692	691	691	693	693	692	692	693	693	692	691	692	691			
TBIN	U003	694	690	692	689	690	695	691	697	692	693	691	690	690	690	692	690	690	691	687	690	692	692	690	689	691	691	691	692	693	692	689	692	693	691	689	693	691	691	692	690	689	693	690	692	693	692	691			
TBIN	U004	983	962	903	898	853	853	835	784	782	783	785	782	782	781	781	783	782	32	0	0	0	0	0	0	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-Coal		10278	10153	10026	9922	9584	9460	9236	9105	9093	9037	9034	9057	9295	9485	9491	9502	9497	9116	9190	9274	9303	9295	9263	9292	9283	9274	9275	9270	9274	9273	9288	9282	9287	9285	9299	9278	9275	9289	9268	9287	9269	9282	9278	9283	9293	9268	9261	9254		
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			
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
CBPS	BLK2	151	189	135	308	271	370	372	374	374	223	223	222	228	222	215	215	221	234	358	354	358	358	365	362	355	356	363	357	359	356	357	357	357	358	362	362	362	363	365	357	359	359	359	357	358	359	346	361		
GLGR	GT01	67	67	67	66	66	67	68	68	69	68	68	68	68	66	68	68	69	67	101	85	83	86	84	84	90	83	67	66	74	99	100	100	101	99	99	99	100	67	68	68	67	67	67	67	67	67				
GLGR	GT02	68	67	68	68	68	68	68	68	69	68	68	68	68	68	70	68	67	67	101	85	85	85	85	85	90	84	67	67	76	100	100	100	100	100	100	100	100	67	68	68	67	68	68	68	68	68				
GLGR	ST1C	72	72	72	72	73	72	72	73	71	72	71	72	72	72	71	71	72	90	87	85	86	84	83	83	83	73	72	73	91	92	91	91	92	92	92	77	73	72	72	72	72	72	73	72	72	72	72			
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	153	153	142	142	142	143	140	135	75			
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
KLPP	ST17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
NPRI	BLK1	320	326	321	311	329	308	322	329	311	321	329	329	330	329	321	316	331	386	530	523	525	523	525	530	521	529	527	524	526	527	524	522	523	520	523	524	527	524	529	529	525	524	524	526	511	525				
NPRI	BLK2	323	334	323	314	332	310	326	335	314	360	333	368	368	359	326	320	526	535	443	512	514	514	512	519	508	517	518	511	521	516	518	517	519	516	516	517	512	522	514	517	516	512	515	513	514	498	514			
PCGP	PGRG	490	301	400	181	180	181	183	182	180	183	180	182	183	181	181	182	182	262	605	593	598	598	592	602	592	602	598	612	602	604	602	612	602	605	602	604	599	611	596	603	597	599	596	598	598	578	599			
PGLA	GT11	164	165	163	161	166	158	164	166	160	162	167	165	168	166	163	161	167	186	212	175	178	209	210	212	210	213	213	213	216	214	216	214	203	186	168	166	176	198	174	205	168	167	165	204	160	164				
PGLA	GT12	167	169	167	162	170	162	167	170	163	166	169	169	169	170	166	164	170	190	215	178	182	213	212	214	212	216	216	214	219	217	218	221	217	207	189	170	169	178	203	176	208	170	170	169	206	164	169			
PGLA	ST10	202	200	202	202	202	197	199	202	199	202	202	204	204	202	202	200	204	208	236	220	215	2																												

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
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRDG	GT05	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 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
BSIA	HY01	21	21	21	21	11	11	21	12	21	20	20	0	0	0	0	21	21	21	21	21	21	22	21	22
BSIA	HY02	22	23	23	22	23	11	11	23	12	23	22	23	0	0	0	22	22	22	22	22	22	22	22	22
BSIA	HY03	24	24	24	24	11	12	23	13	23	23	13	13	13	13	23	23	23	23	23	23	23	23	23	24
CEND	HY01	10	10	10	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	8	8	9	9	9	
CEND	HY03	0	0	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
KNRG	HY01	36	21	36	36	21	21	36	23	36	36	36	0	0	0	22	36	36	36	36	36	36	36	36	
KNRG	HY02	37	23	37	37	22	22	37	22	37	37	37	0	0	0	37	37	37	37	37	37	37	37	37	
KNRG	HY03	36	21	36	36	20	21	36	22	36	36	36	24	24	23	23	24	36	36	36	36	36	36	36	
KNYR	HY01	94	95	98	96	98	53	53	56	53	58	58	99	97	98	54	99	100	98	98	98	100	99	100	
KNYR	HY02	95	96	98	96	98	54	54	56	54	59	58	99	98	98	54	98	98	98	98	98	98	98	98	
KNYR	HY03	94	95	97	95	98	52	64	67	62	-1	-1	57	96	96	96	94	96	96	96	100	100	100	96	
KNYR	HY04	96	96	98	97	99	54	54	97	54	59	58	99	98	99	96	100	100	98	99	99	100	100	98	
LPIA	HY01	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	19	22	22		
LPIA	HY02	19	19	19	18	18	18	18	18	18	18	18	18	18	17	17	17	17	17	17	19	22	20		
MNOR	HY01	6	6	6	6	6	5	5	5	5	5	5	5	5	8	8	8	8	8	8	5	5	3		
PGAU	HY01	0	158	0	0	0	157	157	-1	-1	-1	-1	-1	-1	-1	-1	149	21	-1	-1	-1	-1	-1	-1	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	146	21	-1	-1	-1	-1	-1	-1	
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	149	21	20	20	20	20	20	-1	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	20	20	20	20	20	0	
SIHY	HY01	51	50	51	51	51	30	30	30	30	30	30	30	30	30	50	50	49	49	49	49	49	0		
SIHY	HY02	50	50	50	50	50	30	30	30	30	30	30	30	30	30	50	51	50	50	50	50	50	0		
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	10		
SYPS	HY01	17	17	17	17	17	17	17	17	17	17	17	0	0	0	0	17	17	17	17	17	17	17	2	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	0	
SYPS	HY03	17	17	17	17	17	17	17	17	17	17	17	0	0	0	0	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	17	17	17	17	17	17	17	17	
TMGR	HY01	84	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	84	84	84	83	84	84	84	
TMGR	HY02	88	35	33	31	35	29	34	35	30	33	35	34	35	34	33	31	34	88	88	88	88	87	88	
TMGR	HY03	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	84	84	84	84	84	84	84	
TMGR	HY04	30	34	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	85	85	85	85	85	85	85	85	
UJLI	HY01	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	183	92	85	87	87	-1	97	91	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	94	94	100	-1	-1	-1	96	101	
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	
UPIA	HY02	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		997	951	820	807	821	670	688	660	530	557	555	636	603	621	598	501	662	1636	1383	1332	1334	1464	1344	
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	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	4	10	12	21	24	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	12	20	24	26	30	30	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	20	29	30	33	35	36	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	15	20	27	31	36	41	43	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	14	17	21	24	26	29	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	17	22	31	33	39	40	43	

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	11	25	30	37	41	43	43	36	36	42	34	40	46	19	12	37	35	7	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0