

Daily System Generation Summary on Tuesday

Tuesday, September 28, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,151 MW
Distillate	0 MW
Total TNB	2,151 MW
Total IPP	18,050 MW
Total Co-Gen	0 MW
Total System	23,404 MW

Generation Mix

Type	MWh	Percentage
Hydro	19,089	5.30 %
Gas	39,460	10.95 %
Total TNB	58,549	16.25 %
ST-Coal	222,827	61.84 %
LSS	3,135	0.87 %
Gas	73,613	20.43 %
Total IPP	299,575	83.14 %
Co-Gen	1,194	0.33 %
Total Co-Gen	1,194	0.33 %
Total Generation	359,318	99.72 %
PLTG	-320	-0.09 %
HVDC	-699	-0.19 %
Interconnection	-1,019	-0.28 %
Net Energy	360,337	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	18,365 MW
TNB Generation	2,772 MW
IPP Generation	14,289 MW
Spinning Reserve	1,254 MW
Maximum Demand	17,168 MW
Net Energy	360,337 MWH
Load Factor	87.45 %

Fuel Cost

Total Cost:	57,297,090.80 RM
Cost per Unit	15.94 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	294
Hydro	334
Syncon	504
Thermal	422
Total	1,554

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	28
TJGS	152

Total TNB 180

CBPS	51
NPRI	152
PGLA	110
PLPS	75
SGB3	49

Total IPP 437

Total Gas 618

Total Gas Required 618

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	14636	13825	13370	13025	12736	12517	12561	12651	13099	14965	15760	16261	16330	16253	16735	17124	17168	16503	15642	15813	16268	15902	15405	15163

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 6, 2021 10:38:10 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	695	687	653	629	545	501	495	451	401	402	402	403	452	506	502	502	616	694	692	692	693	692	694	691	693	693	692	689	692	691	692	692	692	651	643	695	694	692	694	693	691	693	654	652	654	652	651	
JMAH	U002	694	695	692	651	623	560	506	500	454	405	406	403	405	453	506	502	504	623	673	684	696	699	700	700	702	693	698	701	700	695	696	695	697	695	642	655	699	705	698	693	698	697	693	651	656	654	655	657	
JMHE	U001	946	900	897	845	849	849	849	804	798	797	798	800	796	798	794	805	797	840	900	981	980	978	976	980	982	979	981	979	980	980	983	978	978	975	984	975	977	980	979	979	980	982	979	982	979	977	949	951	
JMHE	U002	946	899	897	848	852	853	850	802	802	795	800	801	798	800	797	801	799	853	900	983	981	977	976	978	977	978	980	977	977	981	982	977	977	976	982	973	977	978	978	978	978	981	977	979	978	975	948	952	
JMJG	U001	545	528	543	580	612	618	618	615	618	622	624	621	618	585	509	511	506	478	459	457	437	479	536	545	546	492	542	544	546	594	593	597	645	646	608	598	523	442	454	540	548	548	530	528	507	497	472	475	
JMJG	U002	271	272	288	273	289	296	360	437	432	513	508	513	508	551	568	649	679	613	545	548	487	510	543	548	556	493	543	548	585	599	596	599	645	647	613	598	532	455	464	546	549	547	536	533	520	507	491	495	
JMJG	U003	526	523	540	580	613	616	615	614	608	618	612	615	614	586	499	499	502	481	454	446	431	488	526	545	543	502	508	542	545	583	590	594	596	596	552	487	496	439	456	503	536	544	527	523	503	507	477	477	
JMJG	U004	952	904	905	855	856	854	855	806	809	806	809	808	810	810	810	809	809	815	874	932	982	980	979	981	980	980	978	981	979	979	980	978	979	980	978	981	978	980	973	977	970	967	969	968	969	950	951		
PKLG	U005	268	268	267	269	268	269	270	268	268	269	267	269	267	268	267	268	267	269	268	269	271	303	388	389	309	277	366	392	454	468	468	390	359	358	293	269	269	269	268	268	267	267	268	269	267	269	268		
PKLG	U006	446	443	441	370	358	359	358	358	358	360	357	358	358	430	447	449	448	448	448	446	449	452	446	445	445	446	442	447	445	445	443	442	442	443	443	446	438	441	443	445	446	443	442	445	443	442	438	440	
TBIN	U001	688	688	685	686	685	687	689	688	650	649	599	599	600	652	665	648	646	686	686	686	687	686	687	689	685	688	687	686	685	683	692	687	687	688	691	688	689	690	687	688	689	687	671	649	648	650	649	648	
TBIN	U002	690	690	690	692	692	687	689	689	654	652	606	604	605	657	662	650	651	694	687	686	693	697	691	693	695	690	693	694	692	692	694	692	692	693	694	693	694	688	693	692	691	694	679	650	652	651	652	652	
TBIN	U003	692	687	698	690	690	691	687	687	655	653	601	601	602	650	661	652	653	694	687	690	695	690	690	690	694	689	699	689	691	694	689	695	688	692	693	689	693	692	688	691	695	693	675	652	651	657	652	652	
TBIN	U004	952	905	903	852	851	855	852	803	802	801	802	803	802	803	805	803	802	818	901	979	982	983	984	983	985	979	983	984	981	983	982	982	983	982	982	982	982	981	981	983	983	983	982	982	983	981	983	954	954
Total ST-Coal		9309	9097	9133	8844	8867	8739	8699	8566	8359	8341	8191	8197	8186	8495	8496	8548	8566	8926	9177	9478	9461	9583	9729	9859	9870	9611	9706	9827	9889	10054	10078	10078	10090	10063	9873	9696	9644	9432	9464	9673	9731	9726	9618	9466	9407	9390	9208	9223	
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	
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	0	0
CBPS	BLK2	287	288	280	290	237	224	222	216	223	214	221	226	241	226	215	216	216	328	358	352	361	359	356	353	351	358	360	358	361	362	359	359	358	356	355	355	354	361	362	357	359	354	349	361	361	366	365	350	
GLGR	GT01	95	95	94	94	95	96	94	95	95	95	95	95	96	97	94	96	94	96	96	95	95	94	95	94	95	96	94	95	96	95	95	95	95	95	94	96	95	95	95	95	96	96	95	95	98	97	96	96	
GLGR	ST1C	40	40	41	40	41	40	40	40	40	41	41	41	41	41	41	40	40	40	40	40	41	40	40	40	40	41	41	41	40	41	41	40	41	41	41	41	41	40	42	40	40	41	41	41	40	41	41	40	
NPRI	BLK1	497	511	483	498	508	509	446	443	446	433	442	448	448	396	479	488	507	518	523	511	524	517	519	518	511	526	524	519	523	522	519	523	521	515	517	515	515	526	527	523	515	518	509	525	525	534	530	525	
NPRI	BLK2	491	524	469	503	522	521	447	445	448	414	438	449	449	398	462	472	512	520	519	494	527	517	521	511	497	529	527	509	512	515	502	523	526	517	497	517	505	529	531	526	496	500	490	529	529	536	532	528	
PCGP	PGRG	585	501	264	261	262	262	261	262	261	262	261	263	262	263	262	262	263	537	601	586	605	594	593	597	588	604	603	597	600	602	596	601	602	592	595	592	591	605	607	603	594	592	582	604	602	614	607	601	
PGLA	GT11	164	169	160	166	170	170	169	167	169	165	168	170	170	170	164	167	166	171	185	209	216	214	213	210	208	215	216	226	225	224	225	226	232	234	235	236	170	169	199	218	219	219	218	218	168	172	170	167	
PGLA	GT12	169	174	164	171	174	175	173	172	174	169	172	174	174	168	170	170	173	191	213	219	218	218	217	221	221	219	229	229	228	227	230	235	236	238	238	174	174	204	223	223	222	222	223	172	177	174	173		
PGLA	ST10	203	205	201	204	203	204	204	203	204	202	203	204	205	204	204	201	203	205	215	232	240	239	240	237	236	229	242	252	255	255	254	255	257	257	258	258	203	205	213	237	238	237	237	239	205	205	205	204	
PLPS	GT11	62	62	55	59	63	63	62	61	61	57	62	62	62	63	57	58	63	64	65	62	112	110	138	138	135	139	138	137	141	141	142	141	143	140	138	138	140	114	115	134	134	126	123	127	116	120	119	61	
PLPS	GT12	69	69	63	66	70	69	69	69	69	65	70	70	69	68	65	66	68	69	69	66	119	116	126	125	125	128	129	127	129	130	128	130	130	127	126	126	120	119	138	137	129	128	131	76	0	0	0	0	
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PLPS	ST18	95	93	89	92	91	92	92	92	92	89	91	91	91	93	92	87	93	94	92	89	131	132	140	139	138	140	140	176	207	208	206	209	209	208	206	209	208	196	196	208	206	203	203	199	193	132	134	90	
SGB3	GT31	105	110	103	107	109	108	109	109	110	106	110	110	109	110	107	105	106	113	110	107	110	106																											

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	9	9	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	7
HTRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	63	0	0	0	0	0	0	0	0
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	62	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	35	35	35	35	20	21	21	20	21
KNRG	HY02	37	37	37	37	37	37	37	37	37	37	37	37	36	37	36	36	36	36	20	20	20	21	21	36
KNRG	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	35	35	35	35	21	21	21	21	35
KNYR	HY01	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
KNYR	HY03	96	96	93	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
KNYR	HY04	97	97	94	97	97	97	97	97	97	97	97	97	96	97	97	97	97	97	97	97	97	97	97	96
LPIA	HY01	19	19	19	19	19	19	20	20	20	20	20	18	16	18	19	21	21	23	24	24	24	24	22	22
LPIA	HY02	20	19	20	19	19	20	19	19	19	18	18	16	16	18	18	19	21	21	21	21	21	23	23	24
MNOR	HY01	4	4	4	4	4	4	3	3	3	3	3	3	1	1	0	0	1	1	1	1	3	3	3	3
PGAU	HY01	-1	-1	19	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	20	20	-1	-1	-1	-1	-1	-1	-1	-1
SIHY	HY01	31	31	31	31	31	31	31	31	31	31	31	31	0	0	0	0	0	0	31	31	31	31	31	31
SIHY	HY02	30	30	30	30	30	30	30	30	30	30	30	30	0	0	0	0	0	0	30	30	30	30	30	30
SIHY	HY03	30	29	30	30	30	30	30	30	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	30
SYPS	HY01	25	25	25	25	25	25	25	25	25	25	25	17	0	0	0	0	0	0	0	0	0	0	0	2
SYPS	HY02	25	25	25	25	25	25	25	25	25	25	25	17	0	0	0	0	0	0	0	0	0	0	0	2
SYPS	HY04	25	25	25	25	25	25	25	25	25	25	25	17	0	0	0	0	0	0	0	0	0	0	0	2
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	34	33	81	81	81	34	34	62	61	33
TMGR	HY02	42	45	38	43	45	45	44	45	42	45	45	65	46	42	44	44	53	45	41	47	44	44	45	44
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	32	32	32	82	80	82	82	81	32	32
TMGR	HY04	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	86	87	87	85	93	91	88	89
UJLI	HY02	84	94	77	87	93	92	92	89	95	84	90	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92
UPIA	HY01	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
UPIA	HY02	5	5	5	5	5	5	5	5	5	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3
Total Hydro		827	816	806	807	815	814	815	809	817	803	811	739	739	720	597	562	569	600	597	606	684	822	885	900
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	11	14	18	22	25	26	27
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	16	19	24	28	27	31	23
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	16	21	11	27	19	26	15	32
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	16	8	27	34	37	40	38	25
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	17	11	29	32	39	41	36	21
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	14	18	21	16	9	13	9
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	14	12	27	34	45	50	19
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	15	23	30	26	44	25	38	40
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	16	17	26	33	37	40	41	28
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	11	16	21	25	28	8	12	22
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	18	28	28	9	25	40	44	47
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	18	27	35	42	48	47	51	45
SSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	14	20	22	26	35	29	35	44
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8	13	17	20	5	18	26	12
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	16	22	17	30	30	10	14	17	22
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	96	192	251	349	378	435	427	484	399
PCUF	CUFG	23	24	25	25	23	23	24	26	25	24	25	25	26	26	25	25	21	21	20	21	20	22	22	23

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		
PCUF	CUFK	26	26	25	28	25	25	24	26	27	26	28	27	25	26	24	27	25	25	25	25	25	25	25	25	26	25	27	27	26	26	25	24	26	25	27	29	25	25	27	27	25	25	25	25	27	27	25	25	
Total Co-Gen		49	50	50	53	50	48	47	50	53	51	52	52	50	51	50	53	50	50	46	46	45	46	45	47	48	48	49	50	50	51	49	48	50	50	52	53	50	49	52	52	49	50	51	49	51	53	51	50	
Total Gen		14637	14265	13849	13541	13326	13192	12996	12845	12671	12551	12478	12441	12463	12622	12598	12657	13071	14222	14869	15331	15674	15946	16196	16377	16258	16148	16221	16605	16752	17066	17081	17103	17111	17073	16459	16083	15655	15405	15761	16422	16211	16089	15860	15707	15349	15327	15088	14829	
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	0	0	0
TIE-HVDC		-29	-30	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	
TIE-PLTG		34	-47	57	-10	-12	18	2	2	-33	-2	-8	-19	-65	-20	-20	-34	5	0	-64	-5	-53	-19	-33	-64	-40	-60	1	40	50	9	-11	10	-26	50	-12	14	45	-11	-20	-24	-25	-48	-10	-68	-23	-39	-43	-9	
Interconnection		4	-78	27	-40	-41	-11	-26	-26	-62	-30	-36	-47	-95	-50	-49	-64	-24	-29	-93	-34	-83	-49	-62	-93	-69	-89	-28	11	21	-20	-40	-19	-54	21	-41	-15	16	-40	-49	-54	-54	-77	-39	-96	-53	-68	-72	-38	
System Total		14636	14346	13825	13584	13370	13206	13025	12874	12736	12584	12517	12491	12561	12675	12651	12725	13099	14255	14965	15368	15760	15998	16261	16473	16330	16240	16253	16598	16735	17090	17124	17125	17168	17055	16503	16101	15642	15448	15813	16479	16268	16169	15902	15806	15405	15398	15163	14870	
S.Rev ST-Coal		480	665	657	796	796	796	819	927	902	968	967	972	883	867	870	842	817	724	450	347	373	388	375	372	394	372	381	387	350	329	340	348	342	467	489	385	382	387	392	378	388	450	594	600	597	709	700		
S.Rev CCGT-Gas		901	1051	1493	1516	1759	1762	1918	1933	1911	1997	1929	1900	1865	1997	1898	1883	1563	899	555	501	247	293	243	266	308	211	463	301	187	195	294	183	127	173	208	138	494	522	358	180	234	321	387	409	458	296	314	707	557
S.Rev 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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.Rev 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	0
S.Rev 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
S.Rev 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		638	638	487	638	638	638	638	638	638	638	638	674	825	825	825	825	825	674	674	825	651	464	464	464	464	464	464	338	313	277	277	464	464	464	738	738	738	738	313	277	464	464	551	551	551	551	551	400	
Hydro		258	269	430	278	270	271	270	276	268	282	274	310	159	178	125	110	98	218	227	107	203	316	353	252	256	237	244	470	634	479	483	321	320	253	294	289	287	281	541	378	394	425	424	291	330	283	270	507	
S.Reserve Total		2277	2623	3067	3228	3476	3469	3622	3666	3744	3819	3809	3851	3821	3883	3715	3688	3328	2608	2180	1883	1473	1446	1448	1357	1400	1306	1543	1490	1521	1301	1383	1308	1259	1233	1707	1652	1904	1923	1599	1227	1470	1598	1812	1845	1939	1727	1844	2164	