

Daily System Generation Summary on Tuesday

Tuesday, February 1, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,475 MW
Distillate	0 MW
Total TNB	2,475 MW
Total IPP	16,800 MW
Total Co-Gen	0 MW
Total System	22,834 MW

Generation Mix

Type	MWh	Percentage
Hydro	9,697	3.22 %
Gas	46,754	15.54 %
Total TNB	56,451	18.76 %
ST-Coal	151,132	50.24 %
LSS	4,122	1.37 %
Gas	86,531	28.76 %
Total IPP	241,785	80.37 %
Co-Gen	1,167	0.39 %
Total Co-Gen	1,167	0.39 %
Total Generation	299,403	99.52 %
PLTG	-754	-0.25 %
HVDC	-692	-0.23 %
Interconnection	-1,446	-0.48 %
Net Energy	300,849	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:	20:30:00 Hour
Total Set On Bus	15,953 MW
TNB Generation	2,801 MW
IPP Generation	11,452 MW
Spinning Reserve	1,649 MW
Maximum Demand	14,355 MW
Net Energy	300,849 MWH
Load Factor	87.32 %

Fuel Cost

Total Cost:	69,336,221.63 RM
Cost per Unit	23.20 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	291
Hydro	198
Syncon	863
Thermal	731
Total	2,083

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	57
TJGS	155
Total TNB	212
CBPS	52
EMPP	250
NPRI	163
PCGP	77
SPGP	105
Total IPP	646
Total Gas	859
Total Gas Required	859

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	14170	13653	13175	12641	12184	11857	11696	11521	10836	11060	11452	11618	11709	11771	12032	12357	12609	12723	12541	12685	14309	14179	13964	13862

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, March 2, 2022 3:16:22 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	604	604	604	603	554	554	503	453	370	459	454	453	454	456	404	357	300	304	305	301	305	303	302	302	303	303	303	303	304	355	353	354	354	397	404	455	455	453	453	451	602	602	604	603	604	602	603	602	603
JMHE	U001	747	751	751	750	750	749	752	752	752	746	748	752	752	749	750	747	748	750	752	751	750	750	751	753	754	750	751	750	750	747	748	752	748	748	747	750	749	747	748	751	750	751	749	748	752	751	751		
JMHE	U002	750	754	751	749	752	749	752	754	751	747	751	750	753	749	753	746	749	751	749	751	752	751	751	751	752	749	752	749	752	747	753	749	754	747	750	749	751	750	746	749	752	751	750	749	749	750	753	749	
JMJG	U002	671	673	666	678	675	673	667	674	672	676	670	672	678	669	668	676	613	604	600	600	596	603	598	596	601	600	601	597	597	597	597	597	597	597	597	601	598	599	604	599	601	667	683	674	667	673	674	671	675
JMJG	U004	785	756	757	755	755	757	758	758	756	757	757	756	758	755	755	756	754	757	756	756	754	757	757	754	756	756	756	756	756	756	756	756	756	755	756	757	777	833	857	856	858	859	858	859	858	859	855	854	
JMJG	U005	748	749	750	750	751	750	750	751	748	751	748	751	747	749	749	751	752	748	752	748	749	750	748	750	751	749	748	748	748	748	748	748	752	749	752	750	770	877	897	896	807	749	748	752	694	637			
PKLG	U003	255	255	254	253	234	167	147	150	148	149	149	152	151	150	151	152	147	147	148	148	147	147	147	147	148	145	146	146	147	205	251	254	258	255	256	255	255	254	258	254	255	230	207	207	208	206	209		
PKLG	U004	272	272	274	271	254	168	159	151	155	154	156	155	155	153	155	156	153	153	155	154	154	152	159	155	153	144	158	155	155	212	271	277	275	277	274	275	276	274	271	277	274	250	201	201	205	209	205		
PKLG	U006	447	447	449	447	447	448	450	450	446	449	451	448	453	450	451	450	449	450	446	450	449	449	449	447	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	449	446	446		
TBIN	U001	599	602	601	600	552	550	498	430	371	456	449	451	451	450	394	354	299	300	302	300	301	301	301	299	301	300	302	300	349	351	350	404	451	453	499	504	504	504	504	602	599	599	549	549	551	550	550	550	
TBIN	U002	602	608	603	603	555	552	500	448	352	438	453	452	452	453	397	387	301	302	303	303	303	303	303	304	302	303	302	301	303	351	352	353	407	451	450	479	485	485	485	485	595	601	603	552	552	553	552	554	553
TBIN	U003	605	605	603	603	552	554	503	453	352	434	454	452	453	452	399	355	299	303	305	301	303	302	303	304	303	302	302	357	352	352	409	455	452	453	453	453	453	453	602	603	601	561	553	555	554	554	554		
Total ST-Coal		7085	7076	7063	7062	6831	6671	6439	6224	5873	6216	6240	6244	6257	6235	6026	5887	5564	5569	5573	5563	5564	5569	5570	5560	5572	5552	5570	5559	5764	5870	5986	6153	6343	6336	6470	6474	6483	6485	6510	7188	7311	7321	7032	6889	6895	6909	6845	6790	
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	370	376	365	368	373	359	335	295	329	355	369	366	311	362	373	290	283	332	296	354	346	289	321	366	352	290	350	367	296	355	305	360	326	363	341	319	357	297	329	306	309	317	365	372	327	317	346	354	
EMPP	BLK1	712	726	709	710	715	710	710	712	711	705	710	712	710	710	710	700	688	709	708	710	711	703	708	710	713	706	710	710	704	711	711	709	710	709	710	709	710	708	690	709	710	709	709	712	710	706	710	709	
EMPP	BLK2	712	728	710	711	714	711	710	711	711	705	709	711	710	710	711	700	688	709	708	709	710	704	708	711	713	706	710	710	704	713	708	709	709	709	710	708	710	708	690	709	709	708	709	712	710	706	710	709	
EMPP	BLK3	767	764	765	766	765	766	765	766	779	374	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	188	204	489	750	758	756	772	763	764	762	762	
GLGR	GT01	104	104	106	105	104	104	103	104	105	103	104	105	104	105	105	104	105	106	106	86	68	68	69	68	67	69	68	67	78	103	103	105	102	103	102	103	103	103	102	104	104	104	103	103	104	104	103		
GLGR	GT02	104	104	104	104	104	105	104	104	104	104	104	105	104	105	104	105	104	105	104	86	68	68	67	68	68	67	67	78	103	103	104	103	103	103	103	103	103	103	103	104	103	104	103	104	103	104	103		
GLGR	ST1C	93	93	93	93	93	93	93	93	93	92	93	92	93	92	93	92	93	93	93	87	72	70	71	71	71	71	72	71	74	94	94	93	94	93	94	93	93	93	93	93	93	93	93	93	93	93			
NPRI	BLK1	529	526	529	531	532	530	528	524	530	521	530	529	527	530	530	520	509	525	526	530	529	520	523	527	527	521	523	523	518	515	515	515	515	516	517	516	517	516	506	523	521	524	523	526	527	521	527	529	
NPRI	BLK2	520	532	519	520	526	518	518	514	521	511	520	521	516	520	521	510	498	516	515	520	520	510	516	521	520	513	520	518	512	510	518	521	518	517	520	514	519	512	500	515	517	516	520	522	519	510	518	520	
PCGP	PGRG	602	623	602	601	610	602	601	597	246	245	246	246	248	242	241	232	224	239	296	343	603	589	596	603	600	593	601	602	593	594	602	606	602	602	602	596	604	595	578	596	598	599	605	607	600	592	599	603	
SPGP	BLK1	709	709	709	711	709	709	710	710	711	710	710	711	710	710	726	729	726	728	728	728	726	726	723	720	719	714	719	714	719	714	713	718	721	722	723	722	725	726	726	727	727	726	728	727	727	727	727		
TJGS	GT1A	223	172	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TJGS	GT1B	215	160	162	163	163	164	164	163	222	226	224	225	222	225	226	208	166	161	166	166	167	166	164	164	167	164	218	218	216	217	218	219	219	219	219	204	218	218	218	218	218	222	221	219	218				
TJGS	ST1C	244	204	94	90	87	87	87	87	112	116	116	116	116	116	116	116	89	92	92	88	89	91	91	91	91	91	91	113	113	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117			
TJGS	GT2A	220	150	187	130	130	129	129	129	218	218	218	218	218	218	216	217	186	184	149	149	196	168	168	168	167	227	226	225	225	225	225	225	226	224	227	227	226	226	214	223	223	223	223	224	224	224	224		
TJGS	GT2B	209	144	183	124	124	125	125	125	212	212	212	213	213	213	213	213	181	179	145	146	190	164	164	164	164	163	203	203	203	203	203	204	203	203</															

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
LPIA	HY02	21	21	20	21	20	21	21	19	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
MNOR	HY01	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	4	4	4	4	4	1	1	1	3
PGAU	HY01	-1	18	-1	-1	-1	-1	-1	-1	18	18	-1	0	-1	-1	-1	19	-1	-1	-1	-1	19	-1	-1	-1
PGAU	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
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
SIHY	HY01	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	51	51	51	51	31	31	31	0
SIHY	HY02	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	30	30	30	0
SYPS	HY01	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	16
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25
SYPS	HY04	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY04	71	86	72	65	85	41	41	42	65	40	81	83	40	70	86	40	35	43	41	49	40	39	41	42
UJLI	HY01	-1	101	93	92	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	94	89	95	94	55	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		386	412	365	336	263	220	215	211	334	302	355	372	286	247	261	230	243	257	252	263	231	425	338	339
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	2	3	5	6	14	17	22	23	24	26	17	16
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	10	13	15	20	27	24	32	25	22
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	11	19	16	26	19	24	26	25	26
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	9	17	24	32	34	37	41	32	36	45
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	7	11	16	19	18	22	21	19	18
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	8	15	15	17	23	21	29	41	47	37	46
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	12	17	23	25	30	30	30	27	30
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	9	12	12	30	24	37	40	41	47	40	41
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	6	12	13	19	47	46	56	64	69	76	78
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	11	17	26	26	32	40	44	44	45	44
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	12	16	21	26	28	30	30	30	30
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	6	9	13	29	27	23	24	39	17	50	50	50
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	7	16	22	29	29	40	32	46	49	52	18
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	9	18	23	30	34	38	41	43	43	44
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	4	9	13	16	8	14	17	6	19	20	19
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	2	15	14	30	30	30	29	30	30	30	30
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	3	35	88	161	234	359	379	454	494	521	595	574
PCUF	CUFG	28	26	27	27	27	26	27	28	27	27	29	27	28	27	27	25	26	25	27	26	27	24	22	22
PCUF	CUFK	24	26	26	25	24	26	27	24	25	26	25	24	25	27	24	25	23	2	3	4	5	4	25	24
Total Co-Gen		52	52	53	52	51	52	54	52	52	53	54	51	53	52	52	50	50	50	28	30	28	27	26	48
Total Gen		14111	13863	13577	13375	13092	12852	12589	12319	12114	12019	11763	11787	11654	11642	11472	11180	10815	10878	10978	11069	11367	11542	11526	11597
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		-29	-29	-30	-29	-30	-29	-29	-29	-28	-30	-28	-28	-28	-28	-29	-29	-29	-28	-29	-29	-29	-29	-29	-29
TIE-PLTG		-30	-86	-45	-23	-53	-16	-22	-25	-42	18	-67	-36	-14	-16	-21	-27	7	-38	-53	-68	-56	-42	-65	-73
Interconnection		-59	-115	-76	-52	-83	-46	-52	-54	-70	-12	-94	-65	-42	-44	-49	-55	-21	-66	-82	-97	-85	-70	-92	-103
System Total		14170	13978	13653	13427	13175	12898	12641	12373	12184	12031	11857	11852	11696	11686	11521	11235	10836	10944	11060	11166	11452	11612	11618	11700
SRev ST-Coal		685	694	698	694	726	733	732	726	739	722	731	736	720	739	735	729	789	782	787	782	783	783	778	783
SRev CCGT-Gas		159	421	648	467	445	483	512	561	-49	203	163	157	209	161	133	260	346	354	327	310	464	508	513	451

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		
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	0	0
SRev 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
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	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		941	603	754	754	941	941	941	941	754	754	754	603	603	941	941	941	941	941	941	941	941	790	754	941	941	941	941	941	941	941	891	1042	941	855	855	855	941	941	588	739	739	739	739	739	739	739	739	502	
Hydro		125	287	183	212	98	141	146	150	214	246	193	327	413	114	100	281	418	409	414	403	286	253	153	152	152	154	150	103	150	251	320	143	230	226	189	195	165	125	272	123	130	103	83	47	91	182	171	353	
S.Reserve Total		1910	2005	2283	2127	2210	2298	2331	2378	1658	1925	1841	1823	1945	1955	1909	2211	2494	2486	2469	2436	2323	2298	2385	2327	2344	2445	2356	2156	2239	2243	2194	2100	2116	1990	1973	2014	2013	2053	1892	1791	1698	1649	1623	1566	1656	1787	1730	1660	