

Daily System Generation Summary on Monday

Monday, March 29, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,336 MW
Distillate	0 MW
Total TNB	2,336 MW
Total IPP	17,269 MW
Total Co-Gen	0 MW
Total System	23,584 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,222	4.17 %
Gas	65,606	17.97 %
Total TNB	80,828	22.14 %
ST-Coal	223,281	61.17 %
LSS	3,126	0.86 %
Gas	56,322	15.43 %
Total IPP	282,729	77.46 %
Co-Gen	208	0.06 %
Total Co-Gen	208	0.06 %
Total Generation	363,765	99.66 %
PLTG	-633	-0.17 %
HVDC	-609	-0.17 %
Interconnection	-1,242	-0.34 %
Net Energy	365,007	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:	16:30:00 Hour
Total Set On Bus	18,182 MW
TNB Generation	4,223 MW
IPP Generation	12,907 MW
Spinning Reserve	1,042 MW
Maximum Demand	17,292 MW
Net Energy	365,007 MWH
Load Factor	87.95 %

Fuel Cost

Total Cost:	45,431,255.62 RM
Cost per Unit	12.48 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	304
Hydro	386
Syncon	614
Thermal	164
Total	1,468

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	53
TJGS	175
Total TNB	228
CBPS	49
NPRI	150
PGLA	70
PLPS	37
Total IPP	306
Total Gas	534
Total Gas Required	534

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	14673	14076	13464	13004	12662	12504	12634	12853	13442	15189	15965	16543	16331	16160	16654	16988	17195	16848	15864	15692	16863	16730	16198	15897

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 6, 2021 11:56:49 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Monday

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	688	693	690	692	692	645	603	601	601	551	552	552	652	694	650	652	651	651	693	704	693	691	692	691	691	692	691	692	692	692	691	690	691	694	692	692	691	689	690	698	691	690	692	692	688			
JMAH	U002	696	694	696	697	694	698	650	601	604	602	555	554	557	654	695	656	656	654	655	698	694	696	696	694	693	695	694	694	693	697	695	694	695	695	694	698	698	695	695	696	694	697	693	697	694	697	694	694	
JMHE	U002	980	976	983	904	906	900	900	905	809	801	803	800	802	802	789	802	801	910	899	982	976	982	985	984	975	977	979	982	984	980	981	976	981	979	981	981	979	980	980	978	978	982	981	979	979	978	980		
JMJG	U001	670	672	671	668	672	675	668	671	674	672	669	671	673	675	672	672	669	673	671	667	673	673	670	668	667	667	662	668	672	672	669	669	671	672	665	669	669	669	669	671	668	672	668	669	662	668	670		
JMJG	U002	679	676	677	666	679	677	669	674	675	667	674	673	679	667	673	675	672	677	674	677	668	668	668	675	674	673	673	673	670	674	671	672	671	672	673	668	678	673	668	673	672	673	677	673	677	673	673	675	
JMJG	U003	673	665	672	672	669	671	669	671	666	664	674	674	670	670	673	673	668	672	669	673	672	666	672	668	671	670	670	671	672	669	668	671	671	668	670	668	668	672	671	667	670	671	672	672	671	672	671	669	
JMJG	U004	928	929	928	903	902	903	901	894	837	807	808	808	804	807	805	805	806	832	891	922	929	931	930	927	932	931	931	929	930	929	939	948	948	951	950	951	949	949	951	951	951	953	952	950	948	949	949	950	
JMJG	U005	896	887	890	892	889	892	890	894	843	800	797	801	801	799	796	801	800	836	881	886	876	881	884	882	880	880	881	881	880	881	881	881	878	880	876	881	879	879	879	882	881	879	880	857	879	878	881	881	
PKLG	U003	284	253	201	160	159	159	161	158	158	160	160	160	160	160	160	160	160	156	217	276	280	276	278	277	279	279	278	279	281	277	278	277	281	285	280	279	279	277	278	277	278	276	276	278	281	278			
PKLG	U004	277	252	179	152	151	161	150	158	153	152	152	152	152	152	152	152	152	152	154	224	276	277	280	279	277	274	280	275	276	275	276	279	282	279	277	276	278	277	279	277	279	278	284	283	277	279	280	279	
PKLG	U006	449	449	446	448	450	446	449	449	449	445	445	445	445	445	445	445	445	445	449	450	449	447	446	445	445	445	449	450	450	446	446	446	448	450	448	448	450	451	448	445	446	448	450	453	449	448	447	449	
TBIN	U001	689	691	691	687	690	691	689	689	690	690	692	688	690	687	688	690	691	691	689	689	687	690	688	689	686	688	689	688	691	685	687	688	690	683	690	689	689	691	687	696	688	691	687	689	691	690	689	689	
TBIN	U002	694	689	692	685	686	692	692	685	687	691	689	693	694	691	692	691	693	689	687	690	697	688	693	687	689	697	689	690	690	692	688	689	692	691	687	695	692	689	690	693	693	688	694	691	694	692	690		
TBIN	U004	981	984	982	910	903	905	903	890	803	803	802	803	802	804	803	804	802	849	933	982	982	982	984	984	983	982	983	984	981	983	982	982	983	983	983	984	982	984	984	983	983	982	980	982	983	982	982	980	
Total ST-Coal		9589	9505	9401	9134	9142	9162	9036	8942	8649	8555	8471	8474	8481	8665	8737	8676	8667	8891	9066	9447	9552	9563	9561	9560	9539	9541	9564	9547	9559	9552	9559	9564	9574	9575	9580	9567	9587	9583	9571	9577	9573	9578	9593	9566	9574	9573	9577	9572	
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	
CBPS	BLK2	359	356	355	274	210	224	212	218	222	223	226	231	223	216	220	216	220	283	357	349	357	349	354	358	357	362	320	361	358	360	357	362	360	362	356	357	349	219	283	362	360	361	359	358	359	361	358	254	
GLGR	GT01	68	67	69	69	68	68	68	69	71	69	67	68	69	67	68	68	69	68	67	107	104	105	104	105	83	71	68	105	104	103	104	103	105	104	104	104	104	104	84	104	102	105	103	104	104	103	104	103	104
GLGR	GT02	68	68	67	68	68	67	67	68	68	68	69	68	67	68	68	68	68	68	105	104	104	104	104	84	70	68	105	104	104	103	104	104	104	104	104	104	104	104	84	105	103	104	104	104	104	104	104	104	
GLGR	ST1C	72	72	72	72	72	72	71	72	72	72	72	72	72	72	71	72	71	72	92	93	93	93	93	83	79	72	92	94	94	94	94	94	94	94	94	94	94	89	94	93	93	93	94	93	93	93	93		
NPRI	BLK1	529	520	525	535	516	531	515	529	493	449	330	337	335	430	399	328	400	503	508	506	518	501	508	514	505	507	516	511	511	512	516	512	514	516	509	514	509	514	509	511	515	509	512	511	509	514	506	499	
NPRI	BLK2	533	524	529	537	495	321	305	321	321	323	319	326	324	310	320	317	399	506	512	511	509	506	511	518	509	511	520	516	515	516	519	517	518	520	514	518	504	518	512	515	520	514	517	515	515	515	515	509	502
PCGP	PGRG	401	402	401	409	400	261	262	261	262	265	261	269	270	261	260	262	261	586	595	592	588	585	594	598	590	591	601	597	597	601	605	599	604	602	594	600	584	601	593	600	603	593	599	595	596	595	589	579	
PGLA	GT11	0	0	0	0	19	26	26	24	62	23	116	125	125	117	117	226	229	233	232	214	212	217	180	169	167	167	170	167	169	168	170	186	223	223	211	169	164	168	166	215	215	224	225	225	167	169	165	169	
PGLA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	75	144	218	182	172	170	170	173	172	171	171	173	189	226	227	214	172	167	172	169	218	218	227	228	227	170	172	169	173		
PGLA	ST10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	110	112	113	106	98	248	219	204	206	206	205	205	206	206	218	248	247	204	204	206	206	241	239	246	249	248	204	205	205	139				
PLPS	GT11	0	0	0	0	0	0	0	0	7	63	65	63	43	44	44	64	143	141	140	140	134	136	117	117	111	114	124	124	126	127	128	128	128	126	114	110	127	126	129	129	139	142	141	138	143	138	137		
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	122	115	112	113	124	123	126	128	126	127	127	123	113	109	37	0	0	0	0	0	0	0	0	0	0			
PLPS	ST18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	56	59	59	59	60	57	138	137	134	135	141	139	141	140	140	140	141	139	134	130	109	59	60	59	59	61	60	61	61	60	59	
SPGP	BLK1	679	678	679	678	678	680	680	599	598	677	678	679	720	719	718	718	717	716	717	715	717	720	717	718	718	718	717	717	717	717	718	716	719	717	719	717	719	717	719										

Daily MW Generation on Monday

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	
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	65	-1	64	-1	-1	-1	-1	-1	
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	
KNRG	HY01	35	35	35	35	0	22	21	22	22	22	22	22	22	21	22	21	22	22	22	21	22	35	35	35	
KNRG	HY02	36	36	36	36	36	21	20	20	21	21	21	21	20	20	20	21	20	21	21	20	20	36	36	36	
KNRG	HY03	35	35	35	35	35	22	22	22	23	22	23	23	22	22	22	22	22	22	22	21	22	35	35	35	
KNYR	HY01	97	93	63	70	60	64	62	62	61	100	100	72	71	64	64	63	61	53	57	95	98	96	98	97	
KNYR	HY02	81	60	58	101	57	61	58	59	57	102	62	101	89	61	60	59	59	54	98	94	96	101	103	102	
KNYR	HY03	99	98	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	54	98	94	96	101	103	102	104	104	101	102	
LPIA	HY01	11	11	11	11	11	11	11	11	11	11	11	11	11	16	18	16	16	17	17	17	17	16	16	16	
LPIA	HY02	11	11	11	11	11	11	11	11	11	11	11	11	11	15	17	16	16	17	17	17	17	17	17	17	
MNOR	HY01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	
PGAU	HY01	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	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	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	0	0	0	0	0	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	30	
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	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	0	0	0	0	0	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	
TMGR	HY02	68	44	45	91	41	87	41	45	51	91	47	88	91	45	46	58	46	43	45	46	43	42	45	45	
TMGR	HY03	85	83	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY04	85	84	85	86	30	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	91	93	89	88	91	
UJLI	HY02	93	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UPIA	HY01	6	6	6	5	6	6	6	6	6	5	5	6	5	5	5	5	6	6	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		836	651	439	515	320	372	284	291	294	420	334	387	378	294	295	327	296	339	434	549	553	620	698	624	590
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	0
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	8	14	26	25	26	28	30	26	26
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	15	13	12	25	29	29	29	30	21	27
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	7	14	25	27	17	30	28	30	27	30
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	9	4	6	4	5	3	22	18	36	37
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	15	22	26	17	33	30	33	47	35	32
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	14	18	17	11	25	27	20	25	21	29
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	9	16	28	35	29	26	43	44	49	43
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	5	11	23	25	28	25	24	35	44
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	9	23	28	21	37	26	35	46	35	37
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8	6	16	28	29	27	29	30	30	16
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	14	24	28	18	44	39	47	50	49	50
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	6	3	6	8	10	18	30	37	31
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	11	24	26	22	20	18	20	16	37	24
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	11	16	22	12	23	14	29	31	31	31
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	4	43	92	159	209	233	303	328	343	422	460	452
PCUF	CUFG	4	5	4	6	4	5	4	5	5	4	5	4	5	5	6	8	6	5	7	5	6	6	5	4	6
PCUF	CUFK	3	2	4	3	5	2	3	4	6	4	2	3	4	3	3	4	3	4	3	4	3	4	3	4	4
Total Co-Gen		7	7	8	9	9	7	7	9	11	8	7	7	9	7	9	9	8	8	9	12	9	9	10	9	9

Daily MW Generation on Monday

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																										
Total Gen		14716	14377	14055	13731	13422	13223	12960	12835	12561	12592	12451	12542	12571	12704	12762	12923	13322	14580	15122	15751	15938	16308	16505	16472	16328	16138	16072	16262	16559	16780	16862	17055	17067	17140	16779	16263	15825	15458	15687	16570	16776	16748	16672	16476	16126	15931	15818	15498		
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	0
TIE-HVDC		29	30	30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-30	-30	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		28	14	-37	-52	2	-37	-1	-47	-57	-38	-10	-27	-20	-14	-49	-20	-78	-6	-24	-25	17	-62	5	1	40	43	-45	-33	-51	-62	-82	-61	-85	-108	-25	0	3	-54	39	28	-44	-44	-15	-32	-29	-59	-36	-17		
Interconnection		57	43	-7	-82	-28	-66	-30	-76	-87	-67	-39	-56	-49	-42	-77	-48	-106	-35	-53	-54	-13	-91	-24	-28	11	15	-74	-62	-81	-92	-112	-90	-114	-138	-55	-29	-25	-83	9	-1	-73	-73	-44	-61	-58	-88	-65	-46		
System Total		14673	14348	14076	13827	13464	13303	13004	12925	12662	12673	12504	12612	12634	12760	12853	12985	13442	14629	15189	15819	15965	16413	16543	16514	16331	16137	16160	16338	16654	16886	16988	17159	17195	17292	16848	16306	15864	15555	15692	16585	16863	16835	16730	16551	16198	16033	15897	15558		
SRev ST-Coal		112	192	170	370	359	349	468	501	612	664	651	647	643	611	522	601	608	560	433	185	149	139	140	141	165	163	140	154	142	149	162	162	147	147	141	154	134	138	150	144	148	143	128	155	147	148	144	149		
SRev CCGT-Gas		578	648	655	789	1142	1411	1460	1500	1486	1627	1597	1562	1533	1498	1515	1458	1265	496	359	324	362	328	313	424	592	776	907	654	522	329	312	277	164	157	219	464	757	1070	690	303	178	165	141	154	473	660	697	954		
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	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	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	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	0
Syncon		615	802	990	990	990	926	1077	1077	1077	1077	1077	1077	1077	1077	926	1077	976	976	802	802	802	802	738	889	889	889	889	738	702	702	302	428	302	428	615	802	802	802	277	302	302	428	615	615	464	615	615			
Hydro		212	202	226	102	257	309	246	239	236	110	196	143	152	236	235	354	234	292	197	304	300	358	380	393	176	222	172	224	427	383	333	504	486	438	495	311	232	227	307	503	500	542	431	401	291	365	294	351		
S.Reserve Total		1517	1844	2041	2251	2748	2995	3251	3317	3411	3478	3521	3429	3405	3422	3349	3339	3184	2324	1965	1615	1613	1627	1635	1696	1822	2050	2108	1921	1829	1563	1509	1245	1225	1044	1283	1544	1925	2237	1949	1227	1128	1152	1128	1325	1526	1637	1750	2069		