

Daily System Generation Summary on Monday

Monday, August 31, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,322 MW
Distillate	0 MW
Total TNB	2,322 MW
Total IPP	17,335 MW
Total Co-Gen	0 MW
Total System	22,126 MW

Generation Mix

Type	MWh	Percentage
Hydro	19,417	6.26 %
Gas	17,609	5.67 %
Total TNB	37,026	11.93 %
ST-Coal	234,958	75.72 %
LSS	2,694	0.87 %
Gas	36,439	11.74 %
Total IPP	274,091	88.33 %
Co-Gen	162	0.05 %
Total Co-Gen	162	0.05 %
Total Generation	311,279	100.31 %
PLTG	252	0.08 %
HVDC	725	0.23 %
Interconnection	977	0.31 %
Net Energy	310,302	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	15,891 MW
TNB Generation	2,753 MW
IPP Generation	12,225 MW
Spinning Reserve	905 MW
Maximum Demand	14,980 MW
Net Energy	310,302 MWH
Load Factor	86.31 %

Fuel Cost

Total Cost:	43,919,220.23 RM
Cost per Unit	14.12 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	728
Hydro	282
Syncon	674
Thermal	474
Total	2,158

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	28
SRDG	5
TJGS	102
Total TNB	135
CBPS	43
NPRI	129
Total IPP	171
Total Gas	306
Total Gas Required	306

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	13950	13524	12934	12550	12266	12010	11904	11650	10962	11363	11981	12288	12421	12573	12886	12960	13122	13122	12964	13406	14809	14943	14783	14568

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, September 4, 2020 10:38:13 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	692	692	691	692	693	691	693	694	692	693	694	693	694	692	693	694	692	693	694	693	693	693	694	693	693	695	692	692																					
JMAH	U002	694	695	693	694	693	696	693	695	692	696	694	696	694	695	696	694	695	697	694	694	692	698	694	691	695	693	693	696	696	694	695	696	695	694	692	697													
JMHE	U001	939	945	938	850	849	852	851	780	778	780	781	781	782	781	780	782	780	779	780	779	777	780	780	781	778	783	779	830	830	831	827	831	832	826	831	830	829	835	869	956	955	951	949	952	948	950	952	950	
JMHE	U002	939	942	938	854	848	853	850	784	779	780	781	778	781	784	778	781	782	781	780	777	779	780	780	783	778	780	781	830	831	831	829	831	834	829	830	831	831	834	868	957	952	949	950	948	947	948	955	947	
JMJG	U001	668	673	672	671	677	673	672	670	672	673	672	671	671	667	670	673	675	667	672	673	672	673	672	673	673	673	671	671	672	670	676	668	666	673	690	686	677	660	665	666	676	673	657	671	679	682			
JMJG	U002	672	669	672	673	667	675	671	673	674	674	671	671	660	681	678	667	672	667	676	671	668	675	668	672	673	673	671	672	672	662	668	670	677	674	672	672	674	662	682	658	630	607	660	672	668	671	673	674	
JMJG	U003	671	662	668	668	666	667	662	668	667	666	666	666	665	665	668	595	612	686	667	668	667	668	667	667	678	663	668	668	667	666	666	669	665	666	666	667	671	661	676	663	665	661	666	609	678	664	657	669	
JMJG	U004	933	936	935	865	850	849	841	787	789	788	786	785	788	787	788	791	789	788	789	787	785	788	787	790	790	790	789	815	836	834	833	835	835	833	834	834	833	834	839	892	948	952	948	950	948	951	952	897	
PKLG	U003	278	280	277	279	276	277	275	276	277	277	278	277	278	279	278	211	207	262	256	277	279	277	279	283	276	277	280	281	281	277	275	277	275	275	277	278	276	277	279	278	278	277	276	275	277	279	277		
PKLG	U004	277	272	278	276	275	274	275	272	277	276	279	276	278	278	270	227	203	257	253	158	241	279	295	284	278	278	278	277	273	278	278	277	277	278	280	279	280	280	277	278	278	277	271	278	279	280	280		
PKLG	U006	445	445	446	445	442	445	446	446	445	445	445	451	451	452	453	449	452	448	451	448	448	449	450	451	451	451	450	450	451	451	450	449	450	452	451	450	451	451	448	446	451	451	452	453	449	451	449	451	
TBIN	U001	690	692	689	690	693	689	693	695	690	691	689	695	690	691	691	690	689	691	692	693	689	689	691	690	690	692	692	692	691	692	691	690	690	689	691	692	689	691	692	691	691	690	689	691	691	690	691	690	
TBIN	U002	695	693	691	694	693	694	694	693	694	694	696	694	695	693	695	693	695	693	694	696	691	694	695	693	696	693	696	693	694	694	695	696	694	697	694	694	694	694	694	693	694	695	696	695	697	695	695	694	694
TBIN	U003	691	692	697	694	690	499	627	691	692	691	695	692	690	693	696	691	691	691	693	691	688	693	686	693	691	694	692	692	693	690	693	692	691	693	693	693	693	690	693	693	691	692	691	692	691	692	691	679	
TBIN	U004	941	941	942	884	853	852	839	782	784	782	782	782	782	782	782	782	782	782	782	782	782	782	782	782	782	782	782	782	833	833	831	834	833	834	834	832	832	834	844	934	952	951	952	954	953	952	954	952	
Total ST-Coal		10225	10229	10227	9929	9865	9686	9782	9606	9602	9606	9607	9609	9597	9624	9613	9158	9026	9364	9297	9194	9425	9607	9613	9630	9615	9621	9616	9743	9810	9800	9793	9808	9808	9803	9805	9810	9828	9820	9920	10188	10241	10208	10272	10226	10266	10280	10290	10231	
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	358	365	357	293	232	217	216	223	216	223	222	222	223	223	217	224	221	208	222	222	218	219	222	224	217	224	224	218	224	216	224	224	219	225	218	222	221	228	264	301	351	361	360	361	361	362	364	350	
GLGR	GT02	96	95	95	95	94	95	95	95	95	95	95	95	95	95	95	93	95	95	95	94	95	95	94	95	95	95	94	95	95	95	95	95	95	95	95	94	95	95	107	107	107	108	108	109	108	110	110		
GLGR	ST1C	40	39	40	40	40	40	40	39	39	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	45	47	47	47	46	47	47	46	47	47		
NPRI	BLK1	492	521	499	494	437	472	323	531	414	440	402	408	428	421	398	360	349	298	400	486	437	358	460	358	352	347	394	349	336	328	367	437	415	491	416	466	345	391	420	503	441	526	491	523	507	516	445	316	
NPRI	BLK2	512	522	507	516	507	517	427	404	309	320	317	317	318	322	313	318	320	295	320	317	311	320	318	317	313	319	319	316	320	314	316	319	470	512	518	517	517	521	518	523	515	521	515	517	510	516	514	503	
PCGP	PGRG	599	607	591	602	592	601	597	609	592	404	304	187	182	189	182	182	181	182	181	182	182	181	184	180	180	182	182	181	302	403	502	500	601	598	602	602	602	610	603	615	599	609	603	606	597	603	601	582	
TJGS	GT1A	162	172	185	184	163	147	134	137	185	176	173	174	175	170	173	179	174	155	172	178	176	177	171	178	173	173	173	176	177	175	175	173	175	174	172	173	178	179	178	211	181	234	215	231	175	230	175	175	
TJGS	GT1B	157	164	179	184	152	137	129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	ST1C	202	216	204	212	204	187	167	75	82	86	86	86	90	87	87	87	87	84	87	87	87	87	91	91	90	90	90	90	90	90	90	90	90	90	90	90	90	90	115	95	116	107	113	93	113	97	90		
TJGS	GT2B	211	185	154	154	152	152	155	154	153	153	153	153	153	154	154	154	154	154	153	154	154	152	152	152	155	153	154	153	153	154	153	153	153	154	152	210	209	210	210	210	211	209	211	209	209	209	209		
TJGS	ST2C	123	125	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	
Total CCGT-Gas		2952	3011	2912	2875	2674	2666	2384	2369	2186	2037	1893	1783	1805	1802	1760	1740	1719	1612	1771	1861	1802	1732	1829	1736	1714	1723	1772	1719	1839	1915	2063	2133	2360	2479	2405	2459	2341	2409	2461	2751	2666	2854	2780	2841	2732	2829	2684	2506	
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	0	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</																																																

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									
KNYR	HY04	98	100	99	100	99	100	98	101	101	101	99	100	101	61	59	58	59	52	60	99	101	100	100	100	99	99	101	99	101	99	98		
LPIA	HY01	14	14	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	15	15	14	14	14	12	12	12	12	14	15	15	
LPIA	HY02	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	14	14	14	14	14	14	14	15	
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY03	-1	-1	-1	21	-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	-1	-1	
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	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	0	0	0	0	0	0	0	0	0	0	0	0	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	
TMGR	HY01	34	-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	-1	-1	-1	-1	-1	
TMGR	HY02	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TMGR	HY03	32	32	-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	-1	-1	-1	-1	
TMGR	HY04	33	33	31	33	32	33	33	33	32	33	33	33	33	33	32	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
UJLI	HY01	-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	-1	-1	-1	-1	-1	-1	
UJLI	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	-1	-1	-1	-1	-1	-1	-1	-1	
UPIA	HY01	4	4	4	4	4	4	4	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
UPIA	HY02	4	4	4	4	4	4	4	4	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		820	534	433	458	432	436	430	502	536	541	535	537	540	385	336	252	194	179	195	536	590	610	585	701	763	781	838	882	908	914	816	800	689
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	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	6	15	17	20	23	25	28	28	28	13	32	17	7	11	6	12	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	7	14	17	30	30	30	30	26	30	21	25	30	5	16	20	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	12	19	25	21	39	42	45	8	19	36	44	44	35	16	12	11	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12	18	23	29	33	30	35	41	41	46	45	28	6	32	13	34	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	8	13	13	20	10	9	11	27	26	24	30	26	19	21	18	15	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	12	13	16	25	43	42	43	39	39	15	47	42	41	37	32	22	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	13	20	26	12	37	11	29	28	21	20	50	7	37	16	17	27	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	8	12	21	25	30	37	25	40	44	38	26	45	3	36	31	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	16	22	31	37	45	42	45	35	50	40	28	49	44	40	35	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	21	25	34	42	13	17	56	55	57	58	56	58	56	38	47	44	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	8	16	20	34	19	16	33	32	22	24	16	14	23	19	9	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	44	98	147	194	230	272	309	364	358	354	403	385	362	333	318	255	265	231
PCUF	CUFG	4	5	2	4	3	4	4	3	3	4	4	3	4	3	3	5	4	4	2	3	3	3	3	3	4	2	3	4	3	2	2	4	3
PCUF	CUFK	3	5	2	5	3	3	2	2	3	3	4	3	4	4	3	2	4	4	4	1	2	3	2	3	2	5	1	3	1	3	3	2	5
Total Co-Gen		7	10	4	9	6	7	6	5	6	7	8	7	8	7	6	7	8	8	3	5	6	5	6	5	9	3	6	5	4	9	6	8	9
Total Gen		14004	13784	13576	13271	12977	12795	12602	12482	12330	12191	12043	11936	11949	11819	11716	11615	10990	11261	11418	11788	12052	12227	12341	12437	12455	12488	12632	12735	12924	12968	12995	13000	
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	
TIE-HVDC		30	31	30	31	31	29	30	31	31	31	29	29	29	31	31	31	31	31	31	29	29	31	29	31	31	31	31	31	31	31	31	31	
TIE-PLTG		24	16	22	7	12	9	22	1	33	9	4	13	16	-6	35	28	-3	50	24	50	43	-1	24	-4	4	-11	29	-5	9	23	4	-7	
Interconnection		54	47	52	38	43	38	52	32	64	40	33	42	45	22	66	59	28	81	55	79	71	30	53	27	34	20	59	26	38	52	35	24	
System Total		13950	13737	13524	13233	12934	12757	12550	12450	12266	12151	12010	11894	11904	11797	11650	11106	10962	11180	11363	11709	11981	12197	12288	12410	12421	12468	12573	12709	12886	12916	12960	12976	
SRev ST-Coal		362	358	360	501	512	498	376	507	507	502	502	493	511	491	491	656	642	654	656	655	656	503	496	486	487	490	494	497	499	505	513	501	
SRev CCGT-Gas		307	248	347</																														

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			
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	1	1	0	1	34	34	34	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		676	889	977	826	977	977	977	977	977	977	977	977	977	977	826	1078	1179	1179	1179	977	977	826	977	851	851	851	851	851	851	700	851	977	977	977	977	977	977	664	151	0	0	0	0	0	0	187	187	0	0	
Hydro		476	234	122	248	123	119	125	113	119	114	120	118	115	270	370	202	159	174	158	119	115	246	120	180	118	225	168	124	148	142	391	256	241	234	249	246	247	242	315	583	481	528	525	523	586	605	616	474	0	0
S.Reserve Total		1821	1729	1806	1959	2197	2187	2353	2139	2328	2467	2617	2716	2709	2847	2838	3107	3172	3306	3133	2801	2857	2754	2675	2692	2653	2754	2652	2664	2570	2494	2452	2386	2273	2142	2233	2171	2273	2214	1906	1276	1013	905	971	905	1120	1215	1361	1220	0	0