

Daily System Generation Summary on Sunday

Sunday, August 23, 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	18,573 MW
Total Co-Gen	0 MW
Total System	23,718 MW

Generation Mix

Type	MWh	Percentage
Hydro	17,099	5.29 %
Gas	18,932	5.85 %
Total TNB	36,031	11.14 %
ST-Coal	248,270	76.76 %
LSS	2,434	0.75 %
Gas	37,201	11.50 %
Total IPP	287,905	89.02 %
Co-Gen	157	0.05 %
Total Co-Gen	157	0.05 %
Total Generation	324,093	100.21 %
PLTG	-53	-0.02 %
HVDC	722	0.22 %
Interconnection	669	0.21 %
Net Energy	323,424	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	16,598 MW
TNB Generation	2,250 MW
IPP Generation	12,746 MW
Spinning Reserve	1,596 MW
Maximum Demand	15,030 MW
Net Energy	323,424 MWH
Load Factor	89.66 %

Fuel Cost

Total Cost:	43,551,953.57 RM
Cost per Unit	13.44 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	587
Hydro	376
Syncon	622
Thermal	436
Total	2,021

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	28
TJGS	101
Total TNB	129
CBPS	42
NPRI	132
Total IPP	174
Total Gas	302
Total Gas Required	302

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	13939	13388	13105	12754	12434	12313	12136	11630	12202	12866	13267	13457	13526	13848	14000	14039	13699	13395	13731	14977	14908	14655	14500

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, September 4, 2020 10:34:46 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Sunday

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	689	692	692	696	690	694	691	693	691	693	692	694	692	495	487	471	573	693	691	692	695	693	693	693	691	693	693	693	691	694	694	692	693	693	693	694	693	692	691	694	693	695	692	692	692	694	
JMAH	U002	696	694	697	695	694	696	698	693	693	696	692	695	694	695	694	498	492	479	596	698	693	694	696	693	692	694	693	694	694	695	696	695	694	695	694	696	694	697	695	696	695	690	696	700	691	696	697	
JMHE	U001	980	897	900	899	853	847	850	779	782	780	778	779	777	773	777	781	782	781	779	775	783	780	782	848	850	852	849	845	848	851	850	851	852	849	845	851	849	848	854	954	950	950	949	951	950	950	950	950
JMHE	U002	981	895	899	899	887	847	852	776	778	779	777	778	779	774	781	780	783	779	778	777	781	779	781	847	850	851	849	846	849	852	852	850	851	847	847	850	850	848	853	956	950	950	949	950	951	952	951	950
JMJG	U001	671	672	672	671	672	673	675	671	673	674	676	671	673	673	673	673	671	671	678	678	678	678	678	678	681	678	677	678	674	677	677	678	678	679	655	600	600	650	680	680	680	680	650	630	630	630		
JMJG	U002	668	677	669	679	672	668	673	678	669	666	672	674	671	675	671	673	678	673	672	675	669	670	678	677	666	679	670	670	678	667	670	670	671	673	677	675	675	600	600	650	680	680	680	680	650	630	630	630
JMJG	U003	670	667	669	667	668	666	670	671	667	671	672	671	666	669	671	668	666	672	671	667	668	665	668	670	667	662	667	668	667	667	670	668	666	669	664	669	669	600	600	650	680	680	680	680	650	630	630	630
JMJG	U004	982	958	903	902	895	852	855	826	788	789	788	787	790	790	790	791	790	789	791	787	785	786	786	813	856	857	855	856	854	855	855	854	855	854	855	854	854	854	854	920	950	950	950	950	950	950	900	
JMJG	U005	728	725	732	727	726	727	729	728	729	725	725	725	727	727	728	728	726	723	727	719	730	717	725	728	725	724	719	704	725	736	722	727	723	724	725	724	724	724	724	724	724	724	724	724	724	724	724	
PKLG	U003	275	279	277	277	278	277	279	276	275	277	278	277	280	277	276	277	276	277	276	278	276	277	276	277	276	276	277	276	277	278	277	278	279	276	277	279	279	276	277	275	276	277	275	276	278	278	280	
PKLG	U004	280	279	278	276	277	278	276	276	276	276	272	276	275	277	279	276	280	279	278	279	278	278	279	278	276	277	276	277	276	278	284	279	279	278	279	278	277	276	275	279	274	283	283	280	278	277		
PKLG	U005	468	468	468	468	467	463	466	466	468	466	468	466	467	470	464	467	468	464	466	464	467	467	464	464	465	468	466	468	464	468	465	468	468	469	466	464	465	468	468	466	463	464	464	464	468	467	467	
PKLG	U006	446	449	447	446	450	449	450	449	447	447	449	448	452	449	448	447	449	446	448	451	450	450	449	446	446	448	449	449	449	449	449	449	450	450	447	450	450	452	449	450	450	447	447	446	449	453	449	447
TBIN	U001	690	691	691	690	693	690	692	690	690	691	689	690	691	692	689	690	691	691	690	689	687	690	687	689	685	690	690	689	692	691	693	690	692	691	689	690	692	690	693	689	690	691	693	690	693	689	689	690
TBIN	U003	691	691	686	690	692	691	693	692	692	691	687	689	691	690	691	690	692	690	690	689	689	689	691	690	690	691	696	692	689	688	692	690	690	691	692	689	691	690	693	689	691	691	691	690	692	690	691	
TBIN	U004	982	942	901	902	902	902	902	808	782	782	781	783	782	783	783	782	783	784	783	783	783	781	783	781	827	853	854	854	853	852	853	853	854	852	852	925	951	951	954	953	952	954	954	903				
Total ST-Coal		109001067310581105801052210416104541017010102100971010110102101071010810107 9716 9716 9668 9890 1010010109100851011310316103681039310373103581039410395103891039010396103881037910387103721016610185106691080310798107941080710729106641065810560																																															
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			
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			
CBPS	BLK2	212	219	216	220	210	222	218	217	223	222	215	221	215	210	221	221	208	220	218	220	220	222	222	223	221	223	223	215	215	219	217	224	260	265	238	219	219	274	333	361	365	357	358	358	349	362	359	358
GLGR	GT01	107	107	107	108	97	94	95	94	94	95	95	94	95	95	95	96	95	96	93	98	95	95	96	95	94	95	95	95	95	95	97	95	95	95	95	95	95	95	95	94	94	95	95	94	95	95	95	
GLGR	ST1C	44	44	44	44	40	40	40	40	40	41	40	41	40	40	41	41	41	40	40	41	41	41	41	41	41	40	40	40	40	40	40	41	41	41	41	41	41	41	40	41	39	39	40	40	41			
NPRI	BLK1	500	511	503	506	411	518	430	452	395	391	317	335	319	311	325	364	322	466	457	451	374	399	350	367	356	334	382	434	391	449	466	520	506	512	508	350	395	455	511	510	502	509	509	509	511	511	508	
NPRI	BLK2	489	510	494	506	364	500	381	446	395	392	313	333	315	310	323	359	313	441	437	449	373	401	356	363	352	331	383	405	385	442	443	509	445	524	439	470	436	392	344	433	498	498	521	520	510	523	523	520
PCGP	PGRG	441	451	443	449	436	399	403	401	403	303	301	179	182	182	181	181	182	182	180	181	502	502	400	404	302	303	301	403	491	601	598	605	595	605	599	604	599	594	596	603	603	591	601	599	589	601	601	600
SPGP	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	46	60	61	76	110	111	137	134	136	134	148	148	149	150	149	185	184	234	274	269	268	273	272	0	0	0		
TJGS	GT1A	136	180	153	152	152	150	176	170	171	174	167	177	172	162	175	175	171	175	177	174	172	174	170	171	176	172	177	165	174	172	172	173	173	171	175	170	172	237	231	234	233	230	171	176	170	175	178	170
TJGS	GT1B	128	181	143	148	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	187	199	193	79	79	79	86	89	89	89	89	89	89	86	89	89	86	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	112	116	116	119	113	90	90						

Daily MW Generation on Sunday

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	HY02	99	99	99	99	94	100	97	99	99	99	97	99	98	96	58	-1	-1	-1	-1	-1	59	100	100	100	99	97	99	98	98	98	99	99	98	100	99	100	60	59	54	98	99	99	100	99	100	97	100	100	99
KNYR	HY03	100	100	100	100	95	101	98	100	100	100	98	100	99	96	57	0	0	0	0	0	0	102	101	101	100	98	100	99	99	99	100	100	99	102	100	101	58	58	52	99	100	100	102	100	98	102	102	100	
KNYR	HY04	100	100	100	100	95	101	98	100	100	100	98	100	99	96	59	54	60	61	61	60	102	101	101	101	99	100	99	100	99	100	99	101	100	101	102	61	95	99	100	100	101	100	98	101	101	100			
LPIA	HY01	18	18	18	18	18	18	18	18	18	18	18	18	18	16	16	16	16	17	17	17	16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	18	18	18	18	18	18	18	18				
LPIA	HY02	18	18	15	15	15	15	15	15	16	16	16	15	14	16	16	16	16	18	18	18	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	18	18	18	18	18	18	18	18				
MNOR	HY01	5	5	5	5	5	5	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	5	5	5	5	6	6	6	6					
PGAU	HY01	-1	-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	19	-1	-1	-1	21	21	20	20	20	20	20	21	-1	-1	-1	-1				
PGAU	HY03	-1	-1	-1	-1	25	-1	-1	-1	-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	21	21	29	26	-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	29	29	29	21	0	0	0	0	0	0	0	0	0	0	20	20	20	20	20	20	20	20	20	20			
SIHY	HY02	50	50	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50				
SIHY	HY03	50	50	50	50	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	30	30	30	30	30	30	30	30	30	30	30	29	30	30	30	30	50	50	50	50			
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	17	25	25	25	25	25	17	17	17	17	17	17	17	17	17	17	7	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	25	25	25	25	17	25	25	25	25	25	17	17	17	17	17	17	17	17	17	17	17	17	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	0	0	0	0	25	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	17	17	17	17	17	17	17	17					
TMGR	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	-1	-1	-1	52	42	42	42	41	44	43	42						
TMGR	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	0	0	0	0	54	33	32	33	33	32	33	33	33				
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	33	33	33	35	62	61	62	62	22	-1	-1	-1			
TMGR	HY04	29	31	30	31	28	31	30	31	31	31	28	31	29	26	30	31	27	31	31	31	31	31	31	31	31	31	28	30	31	31	31	31	31	31	31	31	30	31	36	63	62	63	63	61	63	63	63		
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	91	93	92	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	91	87	93	90	83	98	95	88			
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	-1	-1	-1	-1	-1	-1	98	-1	-1	95	94	89					
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	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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	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	688	684	684	633	575	562	571	570	570	559	567	560	547	333	240	209	222	224	223	342	568	829	813	809	767	717	811	780	761	763	790	804	825	693	670	624	644	801	1011	1163	1166	1285	1047	991	1185	1176	1054	
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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
JLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	48	94	163	222	273	278	319	335	363	393	343	333	329	330	263	244	163	124	107	67	41	25	7	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	3	3	4	3	4	2	3	3	3	3	2	2	3	3	3	1	3	3	4	1	4	4	5	4	3	3	3	4	4	4	4	4	4	5	3	2	3	3	3	5	3	2	4	4	3	4	5	5	3
PCUF	CUFK	3	3	4	3	3	1	1	4	2	1</																																							

Daily MW Generation on Sunday

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 CCGT-Gas		866	709	590	776	1067	777	825	745	844	947	1117	1183	1225	1256	1202	1128	1235	945	960	958	784	730	944	906	1046	1076	971	813	784	562	544	411	450	353	471	615	607	393	315	164	102	154	196	188	254	253	253	271	
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-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		851	977	977	977	826	977	977	977	977	977	977	977	977	977	1078	1028	1179	1179	1091	1091	889	889	551	702	702	889	889	702	702	702	702	551	576	576	702	889	587	587	587	500	464	464	277	464	615	390	390	516	
Hydro		250	107	111	111	263	120	133	124	125	125	136	128	135	148	261	304	184	171	170	171	254	128	355	220	224	99	149	242	223	222	220	344	305	284	290	156	504	609	633	747	695	692	760	686	591	572	581	577	
S.Reserve Total		2152	2197	2174	2362	2675	2380	2416	2338	2447	2557	2728	2788	2831	2870	3046	3086	3213	2924	2845	2720	2424	2267	2342	2321	2489	2560	2515	2276	2196	1979	1964	1797	1822	1701	1958	2154	2205	2236	2175	1827	1543	1597	1524	1616	1816	1636	1651	1880	