

Daily System Generation Summary on Sunday

Sunday, August 9, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,422 MW
Distillate	0 MW
Total TNB	2,422 MW
Total IPP	15,653 MW
Total Co-Gen	0 MW
Total System	20,588 MW

Generation Mix

Type	MWh	Percentage
Hydro	17,048	5.01 %
Gas	27,932	8.21 %
Total TNB	44,980	13.21 %
ST-Coal	222,400	65.33 %
LSS	2,672	0.78 %
Gas	70,255	20.64 %
Total IPP	295,327	86.75 %
Co-Gen	181	0.05 %
Total Co-Gen	181	0.05 %
Total Generation	340,488	100.02 %
PLTG	761	0.22 %
HVDC	-699	-0.21 %
Interconnection	62	0.02 %
Net Energy	340,426	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:	21:00:00 Hour
Total Set On Bus	17,391 MW
TNB Generation	3,700 MW
IPP Generation	12,501 MW
Spinning Reserve	1,186 MW
Maximum Demand	16,224 MW
Net Energy	340,426 MWH
Load Factor	87.43 %

Fuel Cost

Total Cost:	50,264,564.75 RM
Cost per Unit	14.77 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	653
Hydro	294
Syncon	634
Thermal	349
Total	1,930

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	4
PGPS	2
SRDG	11
TJGS	185
Total TNB	202
CBPS	50
KLPP	11
NPRI	141
PGLA	71
PLPS	80
SGB3	1
SKSP	13
YPKA	30
Total IPP	397
Total Gas	598

Total Gas Required 598

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	15525	14940	14363	13840	13421	13127	13073	12720	11980	12486	13203	13638	13893	13828	14251	14434	14670	14508	14141	14406	16031	16224	16097	15927

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, September 4, 2020 10:29:17 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	691	692	692	692	694	692	691	692	692	693	688	691	693	690	693	665	552	685	692	696	692	694	693	692	693	691	695	692	693	693	693	694	692	693	691	692	691	694	693	692	691	693	693	692	692	692			
JMAH	U002	690	694	696	693	694	686	696	695	695	693	692	695	692	694	695	695	695	695	695	696	696	692	694	693	695	695	695	695	695	695	694	688	695	692	695	693	694	694	692	695	696	694	692	697	694				
JMHE	U001	975	979	902	899	902	833	780	781	782	779	783	779	781	781	782	781	779	780	783	780	928	935	934	930	930	930	928	930	930	927	931	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
JMHE	U002	747	751	750	750	703	699	699	702	699	700	700	699	702	699	700	698	701	698	700	703	701	702	700	699	699	700	699	700	703	702	698	699	642	545	478	304	310	313	0	0	0	0	0	0	0	0	0		
JMJG	U001	673	677	671	678	679	676	676	676	677	676	677	676	672	679	682	679	677	678	678	677	673	675	677	677	678	677	676	675	675	679	679	677	676	678	678	683	677	679	678	675	678	679	678	678	677	673	678	675	
JMJG	U002	668	673	665	681	682	667	676	680	662	680	672	662	671	671	677	676	671	674	670	671	673	669	674	668	660	679	669	673	675	676	670	678	677	673	671	674	672	673	667	673	667	672	669	670	673	673	674		
JMJG	U003	667	662	667	665	665	665	668	665	662	666	663	666	667	668	666	664	666	662	666	668	665	666	666	667	665	666	672	662	678	668	684	666	668	671	669	667	669	661	671	671	667	671	668	668	667	668	667	667	
JMJG	U004	979	979	911	902	904	884	798	785	783	786	785	785	785	783	785	782	785	787	785	785	783	785	826	913	922	921	924	922	923	922	922	922	922	922	925	922	921	923	923	924	978	977	977	976	977	976	977	977	
JMJG	U005	720	721	722	722	680	686	696	662	706	705	699	696	702	698	702	699	702	704	703	705	708	707	707	431	437	440	441	440	439	441	448	536	534	533	529	575	691	702	721	733	701	700	701	701	703	699	703	701	
PKLG	U003	280	279	276	280	281	280	277	277	278	277	278	279	277	278	278	278	279	280	279	277	279	276	274	278	276	271	275	273	276	273	279	276	278	276	278	276	278	276	278	276	278	276	278	276	280	278	277		
PKLG	U004	280	280	278	277	276	287	276	275	275	279	279	279	279	277	278	278	276	277	281	275	278	281	280	281	280	275	275	278	267	277	278	285	281	277	276	278	274	276	280	277	276	270	276	280	279	278			
PKLG	U005	467	466	468	468	468	468	467	468	467	468	467	468	467	468	467	467	467	468	467	469	473	470	461	465	466	466	468	468	468	468	468	467	467	466	468	468	470	467	467	468	469	466	469	470	468	466			
TBIN	U001	689	691	689	687	690	689	690	686	689	687	688	689	688	690	688	689	690	689	689	688	687	689	687	688	689	690	687	688	689	687	687	689	688	690	688	689	688	689	687	687	690	689	688	689	688	689			
TBIN	U003	689	691	692	691	689	691	691	690	688	691	693	690	691	690	691	691	692	692	691	693	690	691	691	694	690	690	690	690	694	695	691	691	690	692	690	690	692	688	692	690	690	691	691	689	691	689	689	691	
TBIN	U004	981	981	911	901	902	882	793	784	780	784	782	782	784	782	782	781	783	782	782	782	782	781	782	783	830	921	922	922	924	921	922	924	923	923	548	531	524	529	531	535	545	547	544	533	545	530	537	548	635
Total ST-Coal		10196	10216	9990	9986	9909	9785	9578	9518	9535	9564	9550	9533	9553	9553	9571	9483	9242	9513	9562	9563	9557	9566	9564	9363	9541	9575	9558	9709	9741	9726	9737	9823	9759	9295	9201	9068	9181	9196	7981	8002	8034	8022	8014	8011	8010	8019	8037	8116	
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	0	
CBPS	BLK2	355	354	359	361	363	356	354	325	222	220	218	223	223	215	224	197	214	215	222	215	244	297	348	361	355	354	354	357	354	358	357	357	355	355	356	355	356	357	359	355	360	356	360	361	360	361	362	350	
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	48	151	148	151	153	
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	35	41	58	71	144	151	151	153	153	153	150				
KLPP	ST17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	40	56	58	62	128	136	141	141	
NPRI	BLK1	498	502	509	503	509	506	505	509	508	500	445	442	396	384	318	284	325	322	338	335	340	514	505	504	509	500	493	509	510	515	509	513	511	514	509	509	495	509	511	511	509	502	509	509	515	515	494		
NPRI	BLK2	500	505	512	504	509	507	506	511	442	388	317	315	318	306	316	283	325	319	337	332	468	501	512	434	477	409	395	445	449	489	489	509	509	511	510	506	493	505	508	508	506	497	506	508	507	510	511	493	
PCGP	PGRG	589	591	602	595	599	597	594	604	601	591	602	598	602	589	302	200	189	189	190	494	605	611	604	597	602	591	581	605	605	610	606	609	606	610	607	603	587	602	605	606	704	695	702	604	602	611	612	583	
PGLA	GT11	163	166	168	167	0	0	0	0	0	0	0	0	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	135	208	209	212	214	215	218	220	220	220	218	
PGLA	GT12	191	192	195	194	197	182	182	184	183	179	184	182	183	179	182	169	177	176	182	182	185	186	185	183	185	181	177	184	185	187	190	191	225	225	225	225	250	190	246	249	250	248	250	251	253	253	254	251	
PGLA	ST10	204	203	211	136	92	89	91	91	91	91	91	91	90	90	90	89	89	91	91	91	91	91	91	91	91	91	91	91	91	93	93	111	111	112	112	106	88	231	245	246	246	247	247	249	249	249	249		
PGPS	GT3A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	GT11	61	99	137	112	115	112	113	116	65	65	65	65	65	65	65	60	64	63	68	65	71	71	69	113	115	112	110	115	116	118	116	115	135	140	126	125	113	116	122	142	139	143	143	118	116	128	138	110	
PLPS	GT12	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	27	27	29	29	68		
PLPS	GT13	60	95	134	108	113	109	109	64	63	63	64	63	64	63	64	59	61	62	66	63	70	69	66	111	112	108	106	111	112	115	112	116	132	139	124	123	110	112	119	141	136	140	140	115	114	124	131	109	
PLPS	ST18	140	105	142	134	132	132	132	111	92	92	91	91	91	91	91	87	89	90	93	91	94	96																											

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
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
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
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
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
JSLs	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
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
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
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
SSLS	LSS1	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Total LSS		13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
PCUF	CUFG	3	4	4	4	4	4	4	3	5	4	4	3	3	3	3	4	4	6	7	6	7	5	6	6
PCUF	CUFK	3	5	4	2	5	4	4	4	5	4	3	2	3	4	2	3	3	1	2	3	3	4	3	4
Total Co-Gen		6	9	8	6	9	8	8	8	9	7	10	8	7	5	6	7	6	5	7	8	6	9	7	5
Total Gen		15576	15168	14924	14612	14366	14023	13840	13595	13403	13311	13128	13020	13030	12942	12667	12098	11991	12305	12487	12776	13187	13497	13591	13828
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		-30	-30	-30	-29	-29	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		88	15	21	75	39	19	35	-2	18	57	37	34	-8	42	-17	51	47	72	37	35	20	-13	-11	34
Interconnection		58	-15	-9	46	10	-9	7	-31	-11	27	8	5	-36	14	-46	22	18	43	8	6	-9	-42	-40	5
System Total		15525	15190	14940	14573	14363	14039	13840	13633	13421	13291	13127	13022	13073	12935	12720	12083	11980	12269	12486	12777	13203	13546	13638	13830
SRev ST-Coal		189	169	395	392	397	486	520	557	539	508	523	536	517	518	500	589	677	560	511	510	514	509	508	539
SRev CCGT-Gas		1020	728	562	707	529	679	659	760	970	1092	1267	1356	1386	1444	1741	2003	1901	1907	1838	1559	1221	955	869	705
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
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
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
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
Syncon		525	827	953	953	953	953	953	953	953	953	953	802	953	953	802	953	953	766	953	953	953	953	953	953
Hydro		334	179	111	176	166	106	102	186	186	183	180	180	310	187	184	106	101	232	224	99	226	97	95	218
S.Reserve Total		2068	1903	2021	2228	2045	2224	2234	2456	2648	2736	2923	3025	3015	3102	3378	3651	3632	3501	3375	3121	2763	2514	2425	2228