

Daily System Generation Summary on Saturday

Saturday, August 8, 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	17,093 MW
Total Co-Gen	0 MW
Total System	21,805 MW

Generation Mix

Type	MWh	Percentage
Hydro	22,778	6.33 %
Gas	31,392	8.72 %
Total TNB	54,170	15.05 %
ST-Coal	228,724	63.55 %
LSS	2,545	0.71 %
Gas	74,382	20.67 %
Total IPP	305,651	84.92 %
Co-Gen	312	0.09 %
Total Co-Gen	312	0.09 %
Total Generation	360,133	100.06 %
PLTG	898	0.25 %
HVDC	-699	-0.19 %
Interconnection	199	0.06 %
Net Energy	359,934	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	17,905 MW
TNB Generation	2,877 MW
IPP Generation	13,632 MW
Spinning Reserve	1,328 MW
Maximum Demand	16,587 MW
Net Energy	359,934 MWH
Load Factor	90.42 %

Fuel Cost

Total Cost:	54,412,764.57 RM
Cost per Unit	15.11 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	278
Hydro	543
Syncon	429
Thermal	217
Total	1,467

Time	Weather	Temperature
Afternoon	Hot	36
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	4
TJGS	211
Total TNB	215
CBPS	55
NPRI	153
PGLA	94
PLPS	61
SKSP	11
YPKA	35
Total IPP	409
Total Gas	624
Total Gas Required	624

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	15912	15193	14684	14061	13778	13504	13342	13141	12861	13959	14841	15404	15264	15110	15561	15875	16018	15701	15179	15137	16560	16587	16197	16056

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, September 4, 2020 10:28:55 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Saturday

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	695	690	692	692	693	693	693	692	693	692	692	691	689	691	692	694	694	693	689	693	691	691	694	692	693	692	693	692	691	691	694	692	693	692	692	693												
JMAH	U002	694	693	694	689	695	693	695	695	692	693	692	693	694	694	696	694	693	694	696	694	693	694	692	692	695	693	695	693	691	695	693	695	694	695	696	694	693	694	694	695									
JMHE	U001	973	979	895	896	780	780	778	777	780	779	778	781	780	781	781	779	785	781	781	935	962	957	960	983	975	971	980	978	983	979	982	978	980	976	973	976	975	976	976	977	976	975	981						
JMHE	U002	977	981	897	898	781	771	775	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	131	270	317	503	507	506	505	502	752	751	750	748	751								
JMJG	U001	673	678	680	678	673	683	678	676	679	679	679	681	676	675	680	679	678	677	675	676	677	673	678	678	676	673	678	677	674	678	674	678	673	671	672	671	676	677	677	678	678	679	678	676	676				
JMJG	U002	669	666	674	673	671	669	677	677	671	669	673	675	668	675	667	669	677	675	668	672	674	672	671	671	675	671	672	672	671	678	665	672	672	673	673	668	676	668	673	672	672	672	674	671	673	671	673		
JMJG	U003	664	663	668	665	665	667	667	667	663	666	670	666	665	667	669	667	671	666	664	664	665	666	669	664	665	665	666	666	667	668	662	666	666	660	667	666	666	667	665	666	665	667	665	665	666	666	667		
JMJG	U004	977	916	829	788	788	783	783	785	785	783	785	786	783	783	785	785	787	783	785	828	913	956	960	978	979	981	980	977	981	980	978	979	979	979	977	979	978	979	977	982	980	980	978	981	981	978	977	981	982
JMJG	U005	727	726	725	727	724	725	725	723	726	725	714	712	727	730	734	733	730	732	730	733	731	720	719	721	721	719	721	720	722	720	721	722	720	719	722	722	717	717	717	717	718	717	717	714	716	723	719	720	
PKLG	U003	281	285	277	282	280	280	274	277	277	278	276	276	281	278	277	281	283	280	280	281	280	280	280	273	280	281	281	281	281	281	283	285	282	279	279	275	277	276	278	278	284	276	274	280	280	284	281		
PKLG	U004	278	286	279	276	276	277	280	277	277	279	280	279	280	280	278	283	280	278	278	278	278	278	276	272	278	277	278	279	279	290	286	278	278	276	279	278	275	278	276	273	276	279	279	283	283	278	278		
PKLG	U005	467	468	467	466	466	466	467	468	466	465	468	467	466	464	468	467	467	466	467	466	466	466	466	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468		
TBIN	U001	689	686	688	689	689	688	689	687	690	690	689	689	688	687	689	689	687	689	689	688	687	689	689	688	690	691	687	690	689	689	689	689	689	689	688	689	689	688	689	688	691	691	689	687	688				
TBIN	U003	690	693	692	692	690	689	691	693	697	689	692	691	691	694	695	691	692	690	691	694	694	692	690	691	691	690	691	692	690	687	690	691	694	691	693	698	693	690	691	689	691	690	689	689	692	690	690	691	
TBIN	U004	983	984	958	896	801	780	782	783	782	780	781	781	781	783	782	782	783	783	828	919	963	962	983	981	980	984	981	984	981	983	982	983	982	983	985	982	982	983	982	982	983	982	982	982	982	983	982	982	
Total ST-Coal		10434	10399	10113	10007	9671	9644	9654	8884	8877	8868	8869	8869	8872	8883	8893	8889	8904	8886	8882	9134	9333	9393	9410	9466	9457	9445	9474	9463	9479	9473	9458	9472	9488	9459	9556	9596	9719	9768	9666	9961	9972	9965	9958	10217	10209	10215	10219	10226	
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	358	360	365	365	355	362	358	363	363	354	362	362	363	361	362	363	359	366	362	361	362	361	354	359	355	358	351	352	352	352	351	355	355	349	354	355	349	357	357	358	361	360	360	359	362	360	359	357
GLGR	GT01	67	68	68	74	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
GLGR	GT02	68	83	70	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
GLGR	ST1C	71	73	73	36	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
NPRI	BLK1	497	511	506	499	510	499	507	499	519	511	502	508	510	511	507	509	510	514	523	509	517	516	509	509	502	500	511	509	515	508	512	503	513	508	497	509	498	508	509	513	513	510	509	509	512	505	506	510	
NPRI	BLK2	500	514	509	502	515	505	510	502	522	511	502	511	512	512	509	511	511	515	523	511	519	518	512	512	503	499	511	511	515	511	512	504	514	509	497	511	499	508	509	514	514	511	511	510	514	506	509	511	
PCGP	PGRG	586	602	602	591	606	591	602	590	612	602	592	601	602	603	604	602	602	604	620	601	614	611	601	602	592	592	602	602	615	604	608	595	610	602	587	603	589	601	603	609	609	603	603	601	608	596	601	602	
PGLA	GT11	164	167	168	164	174	165	72	0	0	0	0	0	0	0	0	0	0	0	102	128	181	212	212	212	215	215	214	216	216	214	216	216																	

Daily MW Generation on Saturday

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	
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
CEND	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
CEND	HY03	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
CEND	HY04	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
HTRG	HY01	125	-1	-1	-1	-1	-1	121	122	-1	-1	-1	-1	-1	99	125	-1	125	125	125	63	-1	-1	-1	100	125
HTRG	HY02	63	0	0	0	0	0	0	0	0	0	0	0	63	125	125	123	125	125	63	63	0	0	62	123	
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	37	37	37	23	37	37	37	37	
KNRG	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	HY03	25	26	26	38	38	38	38	38	38	38	38	38	38	38	37	37	37	37	37	25	37	37	37	37	
KNYR	HY02	98	59	60	59	62	58	62	96	101	99	99	97	100	100	98	101	58	101	101	101	101	101	99	100	
KNYR	HY03	98	99	100	99	102	99	102	97	102	99	99	97	100	100	98	102	98	101	103	103	102	98	100	98	
KNYR	HY04	99	59	60	59	62	58	61	97	102	99	99	97	100	100	98	102	58	102	102	102	102	102	98	100	
LPIA	HY01	18	18	18	18	18	18	17	17	17	17	17	17	17	18	18	18	18	18	18	18	18	18	18	18	
LPIA	HY02	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	3	3	3	3	
PGAU	HY01	-1	-1	-1	-1	-1	-1	148	-1	-1	-1	-1	-1	-1	-1	-1	21	21	111	21	20	20	-1	21	109	
PGAU	HY02	0	0	0	0	0	0	150	18	0	0	0	-1	0	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY03	-1	-1	-1	-1	-1	-1	151	20	-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	
SIHY	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	
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	
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	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	
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	
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	
TMGR	HY01	62	34	34	0	0	0	0	0	0	0	0	0	0	0	0	84	84	84	84	84	84	84	84	84	
TMGR	HY02	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	87	87	85	54	32	33	64	85	
TMGR	HY03	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85	85	80	80	52	31	62	82	80	
TMGR	HY04	59	33	33	32	33	31	33	32	33	33	31	33	33	33	86	87	86	86	86	53	31	31	63	83	
UJLI	HY01	-1	-1	-1	-1	-1	-1	176	-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	
UPIA	HY01	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
UPIA	HY02	6	6	5	5	5	5	5	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Total Hydro		809	417	419	392	403	389	401	1214	643	473	471	466	475	475	487	479	389	532	820	1141	1072	1256	1454	1366	
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	0	0	2	3	7	13	14	16	17	23	20	20	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	4	6	10	9	7	12	8	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	16	23	21	30	35	30	39	27	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	14	10	16	26	30	37	43	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	4	9	10	11	27	19	16	26	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	14	16	26	24	43	23	36	24	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	12	7	25	29	35	16	46	47	49	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	8	12	18	23	29	24	39	43	40	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	13	16	20	26	41	47	45	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	7	20	32	37	43	47	52	55	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13	13	13	13	13	13	13	13	13	

Daily MW Generation on Saturday

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 LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	34	72	112	170	204	247	293	317	362	354	304	330	275	288	281	302	280	218	185	148	108	56	23	14	14	13	13	13	13	13	13	13	13
PCUF	CUFG	4	5	4	4	3	3	2	3	4	3	4	3	4	5	3	3	5	5	4	2	4	2	4	4	4	3	4	3	5	2	5	3	3	4	3	3	3	4	4	38	38	38	38	39	4	3	3	4	
PCUF	CUFK	4	3	3	2	4	2	2	3	4	4	3	2	4	5	3	2	4	6	4	2	3	3	1	1	2	3	4	2	3	2	3	3	4	3	2	4	2	4	4	26	32	30	30	30	3	3	2	5	
Total Co-Gen		8	8	7	6	7	5	4	6	8	7	7	5	8	10	6	5	9	11	8	4	7	5	5	5	6	6	8	5	8	4	8	6	7	7	5	7	5	8	8	64	70	68	68	69	7	6	5	9	
Total Gen		15995	15552	15184	14920	14671	14409	14123	13933	13733	13586	13509	13353	13310	13255	13121	12850	12815	13408	13926	14462	14787	15104	15407	15505	15286	15235	15134	15352	15533	15815	15837	15897	16001	15965	15740	15443	15198	15103	15157	15978	16523	16550	16577	16478	16214	16231	16114	15853	
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			
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-30	-30	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-30	-30	-29	-27	-30	-28	-31	-28	-28	-31	-28	-30			
TIE-PLTG		119	50	27	55	23	84	98	69	-8	17	41	21	4	-6	15	58	-11	-34	4	58	-17	15	39	44	58	101	60	66	8	88	-2	55	19	28	76	11	55	21	54	48	-2	20	25	40	52	50	93	12	
Interconnection		90	21	-2	26	-6	55	69	39	-38	-12	12	-7	-25	-35	-13	30	-39	-64	-26	28	-47	-14	10	14	29	72	31	37	-21	59	-31	25	-10	-2	46	-18	26	-8	27	18	-30	-11	-3	12	24	19	65	-18	
System Total		15912	15538	15193	14901	14684	14361	14061	13901	13778	13605	13504	13367	13342	13297	13141	12827	12861	13479	13959	14441	14841	15125	15404	15498	15264	15170	15110	15322	15561	15763	15875	15879	16018	15974	15701	15468	15179	15118	15137	15967	16560	16568	16587	16473	16197	16219	16056	15878	
SRev ST-Coal		221	246	445	507	518	430	420	605	527	535	531	531	529	520	510	510	500	518	521	360	312	252	225	169	178	190	161	172	156	162	177	163	147	176	179	239	216	267	269	274	213	220	227	168	176	170	166	159	
SRev CCGT-Gas		918	739	679	735	505	569	876	751	375	342	418	567	275	343	495	768	751	323	126	217	419	387	345	382	332	316	377	226	109	147	325	348	223	202	376	456	768	799	883	404	282	251	196	260	305	393	512	781	
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	-3	15	10	18	27	29	35	40	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		
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		
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		
Syncon		676	802	802	802	802	802	187	525	802	802	802	823	802	802	953	953	953	827	827	651	525	338	338	525	500	802	651	525	187	187	187	187	187	187	187	525	525	827	915	728	151	0	187	374	626	525	525	525	
Hydro		307	226	224	165	154	168	156	108	211	84	86	91	81	82	220	77	167	24	149	100	345	351	415	653	848	920	514	460	486	632	569	584	600	616	729	313	327	303	242	379	740	885	719	577	324	325	326	329	
S.Reserve Total		2122	2013	2150	2209	1979	1969	2254	1651	1638	1763	1837	1991	1708	1747	2027	2308	2371	1818	1623	1504	1727	1515	1323	1542	1883	1926	1854	1509	1276	1128	1258	1279	1172	1191	1489	1560	1865	2231	2349	1785	1386	1356	1329	1379	1431	1413	1529	1794	