

Daily System Generation Summary on Saturday

Saturday, September 26, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,265 MW
Distillate	0 MW
Total TNB	2,265 MW
Total IPP	17,032 MW
Total Co-Gen	0 MW
Total System	21,845 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,419	5.51 %
Gas	37,774	11.31 %
Total TNB	56,193	16.82 %
ST-Coal	227,325	68.04 %
LSS	2,119	0.63 %
Gas	47,440	14.20 %
Total IPP	276,884	82.87 %
Co-Gen	158	0.05 %
Total Co-Gen	158	0.05 %
Total Generation	333,235	99.74 %
PLTG	-170	-0.05 %
HVDC	-700	-0.21 %
Interconnection	-870	-0.26 %
Net Energy	334,105	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:	19:30:00 Hour
Total Set On Bus	16,430 MW
TNB Generation	3,304 MW
IPP Generation	12,002 MW
Spinning Reserve	1,114 MW
Maximum Demand	15,358 MW
Net Energy	334,105 MWH
Load Factor	90.64 %

Fuel Cost

Total Cost:	45,464,810.54 RM
Cost per Unit	13.66 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	572
Hydro	365
Syncon	743
Thermal	240
Total	1,920

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	28
TJGS	168
Total TNB	196
CBPS	45
KLPP	1
NPRI	137
PGLA	47
PLPS	1
YPKA	1
Total IPP	232
Total Gas	428

Total Gas Required 428

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	14277	13573	13276	12830	12636	12396	12463	12413	12256	13387	14180	14709	14538	14212	14626	14761	14765	14433	14214	14688	15286	15093	14712	14277

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, October 6, 2020 10:07:34 AM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

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	691	688	696	692	693	694	693	694	691	693	692	693	694	695	694	693	693	692	691	693	691	693	696	689	694	691	692	691	691		
JMAH	U002	692	694	692	694	695	692	693	693	695	694	696	695	694	693	693	694	685	699	694	694	693	694	694	693	694	692	696	695	695	693	
JMHE	U002	849	847	848	852	848	848	778	782	781	779	779	781	782	782	783	780	778	782	782	777	778	779	916	949	948	946	949	951	950	947	875
JMJG	U001	674	668	672	673	671	589	497	442	443	448	447	447	465	568	648	667	673	671	675	671	670	678	671	671	667	675	673	677	668	670	677
JMJG	U002	672	669	673	678	668	672	668	673	668	671	680	675	673	672	676	677	669	672	677	668	680	673	671	677	678	670	680	675	664	667	667
JMJG	U004	906	905	899	897	899	899	874	789	791	789	789	789	785	781	785	785	783	785	783	821	908	947	948	949	952	952	952	950	950	949	955
JMJG	U005	646	648	644	646	647	643	652	650	653	652	651	652	652	649	659	654	648	652	655	651	652	649	652	653	648	648	649	647	650	644	641
PKLG	U003	283	284	283	280	283	280	281	281	282	282	283	280	283	282	283	279	280	281	283	281	280	282	281	282	281	278	278	279	280	279	280
PKLG	U004	277	279	279	278	277	290	281	280	273	283	281	280	281	202	139	142	141	144	145	145	145	140	144	145	144	146	147	147	146	147	146
PKLG	U005	466	467	470	450	467	468	464	467	464	460	468	470	468	467	467	453	452	467	468	467	460	469	467	467	466	467	466	465	466	467	467
PKLG	U006	448	446	446	447	449	449	449	449	449	450	446	446	448	446	451	455	457	457	457	451	450	445	449	448	446	449	449	449	449	449	451
TBIN	U001	686	687	685	696	687	687	687	687	687	686	687	687	687	686	687	687	691	686	688	687	686	686	686	686	685	687	687	688	688	686	684
TBIN	U002	691	693	692	692	687	692	693	691	693	691	691	692	692	691	694	685	690	690	694	691	697	691	689	692	689	692	692	691	691	691	694
TBIN	U003	689	689	690	690	689	690	690	692	689	689	688	689	689	690	688	692	690	688	690	688	690	689	690	689	691	692	690	690	690	690	690
TBIN	U004	897	900	898	897	900	898	865	783	782	782	781	782	782	782	781	782	783	781	783	822	911	950	952	952	952	952	952	953	953	952	957
Total ST-Coal		9567	9564	9567	9562	9560	9491	9265	9053	9042	9045	9058	9060	9073	9089	9132	9126	9121	9134	9165	9130	9215	9396	9595	9643	9633	9642	9647	9649	9631	9599	9640
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
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
CBPS	BLK2	206	217	208	224	222	220	222	223	223	221	223	226	224	229	221	221	221	221	295	361	360	360	360	362	354	332	295	296	301	352	359
GLGR	GT01	54	0	0	0	0	0	0	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	95	95	96	96	98	95	95	96	96	95	95	95	95	97	95	95	96	96	95	99	95	95	95	96	96	96	96	95	95	95	94
GLGR	ST1C	78	40	40	40	40	39	40	40	39	39	40	40	39	40	40	39	39	40	39	41	39	38	39	39	40	39	40	40	40	40	40
KLPP	GT15	107	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KLPP	ST17	54	0	0	0	0	0	0	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	492	499	496	327	324	327	331	331	330	331	329	328	328	342	323	330	329	329	509	511	509	503	508	506	502	494	389	396	509	505	502
NPRI	BLK2	491	454	395	463	326	330	421	437	431	512	418	373	459	521	508	463	498	385	476	466	499	467	482	482	415	405	430	499	500	476	502
PCGP	PGRG	571	582	576	601	593	400	402	403	403	402	402	400	401	228	183	180	182	604	602	602	600	597	600	592	590	580	591	599	601	595	592
PGLA	GT11	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGLA	GT12	171	150	148	155	152	154	156	156	155	157	154	154	155	160	153	154	155	154	155	154	152	151	153	151	150	148	152	152	155	153	154
PGLA	ST10	90	90	89	91	89	91	90	89	90	90	89	90	91	90	90	89	89	89	89	90	90	90	90	89	88	89	90	90	91	89	89
PLPS	GT13	123	76	0	0	0	0	0	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	ST18	59	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPGP	BLK1	0	0	176	263	263	273	273	273	273	77	81	83	89	73	73	163	163	259	259	324	469	613	690	690	664	663	662	665	730	730	720
TJGS	GT1A	173	132	127	140	141	141	149	142	140	148	142	136	138	180	162	142	147	144	141	199	200	185	184	194	154	140	151	182	179	185	168
TJGS	GT1B	161	119	116	128	130	131	131	131	129	132	132	130	128	165	153	134	134	133	130	185	188	175	172	177	142	127	141	170	170	179	159
TJGS	ST1C	200	174	174	177	173	174	174	174	177	174	173	173	177	185	187	177	177	173	181	214	210	202	208	213	198	177	181	197	193	210	200
TJGS	GT2A	129	129	129	129	129	129	129	128	128	128	128	129	129	126	129	129	129	129	129	214	214	214	185	185	177	128	128	128	128	183	185
TJGS	GT2B	125	125	125	125	125	125	125	125	124	124	124	125	125	121	125	125	125	125	125	211	211	209	180	180	173	123	123	123	124	181	180
TJGS	ST2C	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	257	257	257	237	237	237	200	200	200	200	236	236	201
YPKA	GT11	69	68	0	0	0	0	0	0																							

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	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY04	8	8	8	7	8	8	8	8	8	8	7	8	8	8	7	8	8	8	8	8	8	7	7	7
KNRG	HY01	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
KNRG	HY02	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
KNRG	HY03	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
KNYR	HY01	94	93	95	98	97	100	99	97	100	99	99	99	99	98	98	96	96	96	97	97	97	96	97	96
KNYR	HY02	54	56	56	58	59	60	62	58	60	66	63	60	98	90	64	78	98	98	98	98	98	98	96	98
KNYR	HY03	94	93	95	98	97	99	99	97	99	99	99	99	99	100	100	-1	-1	96	96	96	96	96	96	96
KNYR	HY04	58	55	66	74	57	82	100	59	100	81	93	74	79	97	97	61	66	99	94	99	99	99	96	97
LPIA	HY01	21	15	16	16	16	16	16	18	18	18	18	18	19	20	20	20	20	15	15	14	15	18	18	19
LPIA	HY02	21	15	16	16	16	16	16	17	18	18	18	18	18	18	18	18	18	15	14	14	15	18	18	19
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	6	7	7	7
PGAU	HY01	22	22	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	21	21
PGAU	HY02	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	21	21
PGAU	HY03	-1	-1	-1	-1	19	-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
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	49	49	48	48
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	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	25	25	25	25	25
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	25	25	25	25
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	25	25
TMGR	HY01	84	84	84	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY02	87	88	87	35	34	35	34	34	35	35	34	35	35	34	34	34	34	35	34	34	33	34	34	35
TMGR	HY03	84	84	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	85	85	85	33	32	-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	-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	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UPIA	HY02	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7
Total Hydro		927	908	924	643	665	624	597	549	602	587	596	573	579	638	630	330	349	551	567	553	574	608	630	594
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	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	5	7	8	7	12	20	9	14	21	30
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	10	16	26	32	37	39	38	16	15
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	10	14	31	29	29	23	29	28	29
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	14	14	24	16	23	28	13	12	13
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	8	15	18	18	20	31	32	38
JLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	10	12	14	17	20	22	16	10
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	13	10	7	16	23	4	24	50	44	32
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	11	12	4	5	4	6	9	11
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	22	29	38	36
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	17	26	25	26	52	47	35	40	28
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	12	16	23	23	36	40	43	37
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	11	52	92	132	181	223	253	246	285	290	292

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		
PCUF	CUFG	4	2	4	3	3	4	2	5	3	4	4	4	3	4	4	4	4	3	4	3	2	3	4	3	3	2	4	4	4	2	2	4	3	2	3	3	3	4	4	5	4	4	4	2	3	4	3	4	
PCUF	CUFK	1	2	2	5	3	4	3	7	3	4	2	4	3	4	2	5	3	2	2	4	2	4	3	3	3	2	2	5	4	3	4	4	4	4	0	3	3	4	2	4	5	4	4	4	1	3	4	2	4
Total Co-Gen		5	4	6	8	6	8	5	12	6	8	6	8	6	8	6	9	7	5	6	7	4	7	7	6	6	4	6	9	8	5	6	8	7	2	6	6	7	6	8	10	8	8	8	3	6	8	5	8	
Total Gen		14268	13715	13592	13372	13236	12952	12805	12563	12589	12470	12391	12320	12435	12498	12405	12119	12212	12862	13297	13792	14115	14421	14660	14721	14525	14285	14173	14413	14573	14723	14717	14695	14727	14717	14393	14198	14217	14261	14678	15316	15257	15233	15083	14936	14619	14435	14246	14035	
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		
TIE-HVDC		-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-31	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-30	-30	-29	-29	-29	-29	-29			
TIE-PLTG		23	42	51	-18	-8	-21	7	-35	-15	-24	27	2	3	-18	25	-20	-11	-13	-58	-45	-33	-8	-18	-33	19	4	-6	-45	-20	12	-12	-27	-5	52	-8	14	36	32	22	-9	4	-34	23	-4	-61	-66	0	-64	
Interconnection		-6	12	22	-48	-37	-50	-22	-65	-44	-53	-2	-27	-25	-47	-5	-49	-41	-42	-87	-75	-62	-38	-46	-62	-10	-25	-35	-74	-49	-17	-41	-57	-35	22	-37	-15	6	2	-6	-38	-25	-62	-7	-34	-90	-95	-28	-92	
System Total		14277	13706	13573	13423	13276	13005	12830	12631	12636	12526	12396	12350	12463	12548	12413	12171	12256	12907	13387	13870	14180	14462	14709	14786	14538	14314	14212	14491	14626	14743	14761	14755	14765	14698	14433	14216	14214	14263	14688	15358	15286	15298	15093	14973	14712	14533	14277	14130	
SRev ST-Coal		392	394	384	393	391	442	379	356	367	363	347	346	332	176	309	381	383	376	344	377	368	354	276	228	238	229	224	222	240	272	231	254	223	236	229	224	232	246	141	138	150	136	153	140	155	122	156	278	
SRev CCGT-Gas		1356	1361	1044	1067	1221	1407	1298	1287	1297	1210	1313	1367	1275	1273	1399	1483	1443	1142	795	366	333	419	471	460	647	884	957	796	678	484	506	700	657	522	812	906	926	867	396	247	280	195	436	657	728	786	997	1173	
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	
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		676	676	676	914	612	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1102	1102	1001	850	1001	850	1001	850	1001	1001	1001	1001	1001	1001	1001	1001	699	699	699	699	699	699	512	512	0	0	0	274	274	361	361	361	361	
Hydro		274	286	270	226	506	158	137	185	132	147	138	161	155	96	104	223	204	103	238	101	231	146	275	160	156	166	165	153	141	153	139	343	366	437	351	350	357	446	445	733	834	956	841	817	927	925	952	689	
S.Reserve Total		2698	2724	2381	2607	2737	3015	2822	2836	2804	2728	2806	2882	2763	2546	2813	3189	3132	2622	2227	1845	1782	1920	1872	1849	2042	2280	2347	2172	2060	1910	1877	1996	1945	1894	2091	2179	2214	2071	1494	1118	1264	1287	1704	1888	2171	2194	2466	2501	