

Daily System Generation Summary on Saturday

Saturday, November 7, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,147 MW
Distillate	0 MW
Total TNB	2,147 MW
Total IPP	15,583 MW
Total Co-Gen	0 MW
Total System	20,427 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,900	5.04 %
Gas	39,368	11.75 %
Total TNB	56,268	16.79 %
ST-Coal	220,875	65.90 %
LSS	2,065	0.62 %
Gas	56,249	16.78 %
Total IPP	279,189	83.30 %
Co-Gen	209	0.06 %
Total Co-Gen	209	0.06 %
Total Generation	335,666	100.15 %
PLTG	-233	-0.07 %
HVDC	726	0.22 %
Interconnection	493	0.15 %
Net Energy	335,173	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	16,438 MW
TNB Generation	3,337 MW
IPP Generation	12,237 MW
Spinning Reserve	856 MW
Maximum Demand	15,571 MW
Net Energy	335,173 MWH
Load Factor	89.69 %

Fuel Cost

Total Cost:	42,106,292.43 RM
Cost per Unit	12.53 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	295
Hydro	393
Syncon	584
Thermal	215
Total	1,487

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	26

Gas Usage

Station	(mmcsfd)
GLGR	51
SRDG	3
TJGS	214

Total TNB 268

CBPS	54
NPRI	85
PGLA	52
PLPS	100

Total IPP 291

Total Gas 558

Total Gas Required 558

Alternate Fuel Usage

Station	(mmcsfd)
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	14538	13927	13319	12982	12729	12487	12483	12297	12181	13276	13915	14530	14494	14243	14583	14736	14761	14444	14192	15156	15308	15269	14842	14594

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, December 1, 2020 9:49:21 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	693	693	691	693	694	696	692	694	693	692	694	694	691	691	693	692	694	693	693	691	693	692	692	693	693
JMAH	U002	696	694	695	693	694	691	698	694	694	696	692	694	697	693	695	697	693	698	694	694	691	695	695	694	694
JMHE	U001	498	501	500	500	500	502	500	499	502	501	499	500	497	500	499	501	500	500	502	499	501	497	503	501	502
JMHE	U002	498	503	501	499	499	501	500	501	501	501	498	503	501	496	501	497	501	501	501	498	500	498	501	500	501
JMJG	U002	680	677	670	673	672	671	672	672	673	671	671	669	678	672	673	668	677	673	675	669	669	670	671	675	669
JMJG	U003	668	668	666	670	666	668	667	667	668	668	666	671	666	667	667	662	668	668	666	667	666	667	679	666	666
JMJG	U004	905	905	898	841	767	693	683	680	675	676	676	677	675	676	676	676	678	676	705	764	821	878	923	924	925
JMJG	U005	795	744	698	700	700	700	700	700	701	697	700	701	700	701	702	702	701	699	749	797	796	799	796	798	794
PKLG	U003	281	281	279	281	280	281	280	280	281	279	281	281	280	279	207	206	208	208	207	206	249	280	279	281	282
PKLG	U004	267	258	188	212	190	190	202	145	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PKLG	U005	472	465	466	467	470	466	464	466	467	467	466	466	470	467	469	470	466	467	468	468	467	468	467	466	466
PKLG	U006	451	449	450	449	445	447	447	450	451	449	448	449	447	447	448	449	448	447	449	449	449	449	451	449	451
TBIN	U001	692	691	690	688	691	691	690	691	690	690	688	689	690	689	688	690	688	690	690	689	691	690	690	689	692
TBIN	U002	691	692	692	691	693	693	691	693	695	688	692	697	691	692	692	693	692	693	693	692	690	693	689	692	693
TBIN	U003	696	691	691	405	349	353	351	354	351	352	353	351	351	353	353	351	354	351	354	351	354	351	353	352	352
TBIN	U004	982	942	854	783	783	782	783	782	783	783	783	781	782	782	783	784	835	854	853	904	923	924	923	922	922
Total ST-Coal		9965	9854	9629	9245	9093	9025	9020	8968	8929	8810	8811	8819	8824	8799	8748	8740	8744	8742	8877	8999	9097	9228	9293	9301	9307
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
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
CBPS	BLK2	350	351	352	352	352	362	355	357	354	355	354	353	355	355	351	349	349	364	356	362	362	370	326	361	354
GLGR	GT01	83	68	69	67	68	69	68	68	69	69	68	68	67	68	67	69	97	105	103	103	105	104	104	103	105
GLGR	GT02	83	67	68	68	68	67	69	68	67	68	67	68	67	68	97	104	104	104	104	104	104	104	104	104	104
GLGR	ST1C	86	73	72	72	72	72	72	72	72	72	73	72	73	72	73	86	94	94	94	95	94	95	94	93	94
NPRI	BLK1	508	509	511	499	499	513	511	515	516	517	514	515	518	517	515	505	515	516	511	511	514	517	513	515	506
NPRI	BLK2	507	383	398	508	314	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PCGP	PGRG	602	601	603	602	602	620	603	605	608	607	605	602	606	603	601	598	604	601	601	599	602	608	603	603	596
PGLA	GT11	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	7	6	66	66	57	46	47	47	47	122	123	227
PGLA	ST10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	106	
PLPS	GT11	115	115	115	116	115	120	116	115	115	118	116	115	115	116	113	116	148	148	148	148	147	147	146	142	142
PLPS	GT12	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	143	148	147	148	149	144	146	143
PLPS	GT13	112	112	113	113	112	118	112	112	112	115	112	112	112	113	109	112	146	145	146	146	145	145	144	141	140
PLPS	ST18	186	133	132	133	133	136	134	133	134	133	134	132	134	135	132	133	134	146	146	207	215	215	215	216	213
SPGP	BLK1	0	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	GT1A	195	210	229	210	228	234	218	220	203	217	205	198	209	208	204	158	186	237	214	230	228	233	232	231	194
TJGS	GT1B	184	198	215	198	219	223	203	209	186	208	191	187	198	197	189	148	171	214	203	222	219	223	215	220	181
TJGS	ST1C	217	222	241	247	242	250	249	219	222	218	220	214	217	222	215	191	192	220	235	249	252	252	248	252	231
TJGS	GT2A	216	214	197	216	214	214	214	217	185	185	185	185	186	186	187	149	128	206	215	215	215	215	215	215	215
TJGS	GT2B	211	211	192	212	212	212	212	179	182	182	182	182	182	182	145	126	197	213	213	213	213	211	212	211	
TJGS	ST2C	257	257	251	250	255	255	255	255	240	235	235	235	235	235	211	199	239	256	256	256	256	256	256	256	256
Total CCGT-Gas		3961	3724	3758	3863	3705	3482	3391	3377	3262	3299	3260	3239	3274	3275	3255	3021	3108	3580	3608	3848	3865	3891	3823	3870	3808
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
Total 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
BSIA	HY01	22	22	22	22	22	21	22	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSIA	HY02	23	23	23	23	23	23	23	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSIA	HY03	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	23
CEND	HY01	9	10	10	9	9	9	10	10	10	10	9	10	10	10	9	10	10	10	10	10	10	10	10	10	10

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	10	10	10	9	10	10	9	9	10	9	10	10	10	10	10	10	10	10	10	10	9	9	10	9
CEND	HY04	8	7	8	8	7	7	8	7	8	8	7	7	7	0	0	0	0	0	0	0	8	8	8	8
KNRG	HY01	22	22	23	22	23	23	22	23	0	0	0	0	0	0	0	0	0	36	36	36	36	36	36	36
KNRG	HY02	25	24	25	24	25	25	25	22	0	0	0	0	0	0	0	0	0	37	37	37	37	37	37	37
KNRG	HY03	23	23	23	23	24	23	24	24	25	24	24	24	23	38	38	38	38	36	36	36	36	36	36	36
KNYR	HY01	58	58	57	60	59	98	99	60	60	59	60	59	-1	-1	-1	-1	96	95	95	95	95	95	98	95
KNYR	HY02	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNYR	HY03	52	52	52	55	50	99	99	55	54	55	54	55	56	55	53	-1	-1	95	95	95	94	94	98	98
KNYR	HY04	62	66	98	78	99	98	91	99	99	99	80	62	86	83	62	60	59	62	59	62	68	98	72	87
LPIA	HY01	20	21	21	21	21	20	20	19	19	19	19	19	14	14	14	18	18	20	20	20	20	20	20	20
LPIA	HY02	20	21	21	21	21	20	20	19	19	19	19	19	16	16	16	16	18	20	20	20	20	20	18	18
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	6	6	6	6	6	6
PGAU	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
PGAU	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
PGAU	HY03	-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
SIHY	HY01	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	50	51	51	51	49	49	49	49	49
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	50
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50
SYPS	HY01	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	23	23	23	23	23
TMGR	HY01	58	54	34	34	34	36	34	35	35	35	34	35	35	34	-1	-1	-1	33	82	62	62	83	83	83
TMGR	HY02	44	50	83	59	88	87	73	87	88	80	62	44	66	62	45	43	44	45	45	52	87	53	70	43
TMGR	HY03	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	33	33	-1	-1	-1	-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	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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Total Hydro		673	588	553	511	557	643	621	560	534	483	424	386	397	358	306	299	241	411	663	642	751	816	1137	1165
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	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
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
KRLS	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	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	0	0	0	0	0	0	0	0	0
PCUF	CUFG	6	4	6	6	6	5	5	6	7	5	6	8	6	6	6	7	5	6	7	4	6	6	5	6

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	CUFK	2	3	2	4	2	4	3	4	4	3	3	4	4	3	3	2	3	2	4	3	2	2	2	2	3	4	2	3	3	4	3	4	4	2	3	3	5	3	4	3	3	4	4	5	3	1	4	3
Total Co-Gen		8	7	8	10	8	9	8	10	11	8	9	12	10	9	9	9	8	8	11	7	8	8	7	8	9	9	7	9	8	11	8	10	8	6	7	9	10	8	10	8	8	12	9	11	7	7	10	8
Total Gen		14607	14173	13948	13629	13363	13159	13040	12915	12736	12600	12504	12456	12505	12441	12318	12081	12151	12826	13268	13653	13931	14228	14568	14606	14492	14294	14257	14386	14582	14744	14743	14702	14766	14707	14496	14266	14211	14346	15185	15582	15337	15437	15294	15099	14827	14750	14582	14349
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	30	30	30	30	31	31	31	31	30	30	31	31	31	31	31	31	29	29	29	31	30	29	31	31	30	29	29	29	31	29	29	29	29	31	31	31	29	29	31	29	30	30	31	31	30		
TIE-PLTG		47	51	-2	17	20	-17	33	3	-18	-55	-6	13	-3	19	-3	37	-54	-29	-27	-55	-3	-14	21	-33	-23	-34	-5	-34	-19	-78	-11	-57	-13	10	34	-2	-1	-11	11	-6	10	-41	6	-39	-34	-1	-32	-39
Interconnection		76	81	28	47	50	14	64	34	13	-25	24	44	29	50	28	68	-23	2	2	-26	28	17	50	-1	9	-3	25	-5	10	-47	18	-28	16	39	63	29	30	20	41	23	41	-12	36	-8	-4	30	-1	-9
System Total		14538	14104	13927	13584	13319	13151	12982	12887	12729	12632	12487	12419	12483	12398	12297	12020	12181	12834	13276	13689	13915	14223	14530	14619	14494	14308	14243	14402	14583	14802	14736	14741	14761	14679	14444	14248	14192	14337	15156	15571	15308	15461	15269	15118	14842	14731	14594	14369
SRev ST-Coal		90	201	390	322	375	370	378	369	365	348	348	341	338	363	365	339	337	334	302	257	299	272	238	230	224	226	233	243	233	238	229	225	231	230	236	275	170	124	33	125	132	100	135	124	133	119	129	115
SRev CCGT-Gas		383	472	443	343	496	719	274	288	403	366	405	426	391	390	641	875	788	151	431	265	248	222	290	243	305	497	390	459	363	237	132	171	251	227	311	216	206	182	207	93	250	180	241	289	369	374	274	431
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
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	30	0	34	34	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
Syncon		827	827	914	914	914	914	914	914	914	763	914	914	864	1015	951	951	1203	928	928	777	676	676	489	489	489	640	827	763	576	576	576	425	389	576	763	864	951	951	187	0	0	489	676	525	713	864	951	951
Hydro		456	354	227	269	224	138	160	221	207	320	228	266	305	193	309	316	122	224	122	286	276	211	280	252	315	377	345	230	365	369	474	565	619	491	408	343	323	472	631	612	805	494	505	491	479	413	322	358
S.Reserve Total		1756	1854	1974	1848	2009	2141	1726	1792	1889	1797	1895	1947	1898	1961	2266	2481	2450	1637	1783	1585	1499	1381	1297	1214	1333	1740	1795	1695	1537	1420	1411	1386	1490	1524	1718	1698	1650	1729	1058	860	1187	1297	1591	1429	1694	1770	1676	1855