

Daily System Generation Summary on Saturday

Saturday, November 20, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,497 MW
Distillate	0 MW
Total TNB	2,497 MW
Total IPP	14,432 MW
Total Co-Gen	0 MW
Total System	19,772 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,313	4.11 %
Gas	34,913	10.03 %
Total TNB	49,226	14.14 %
ST-Coal	208,757	59.99 %
LSS	3,442	0.99 %
Gas	86,158	24.76 %
Total IPP	298,357	85.73 %
Co-Gen	1,145	0.33 %
Total Co-Gen	1,145	0.33 %
Total Generation	348,728	100.21 %
PLTG	2	0.00 %
HVDC	713	0.20 %
Interconnection	715	0.21 %
Net Energy	348,013	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	17,527 MW
TNB Generation	2,922 MW
IPP Generation	13,401 MW
Spinning Reserve	1,156 MW
Maximum Demand	16,346 MW
Net Energy	348,013 MWH
Load Factor	88.71 %

Fuel Cost

Total Cost:	74,219,565.10 RM
Cost per Unit	21.27 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	520
Hydro	302
Syncon	820
Thermal	244
Total	1,886

Time	Weather	Temperature
Afternoon	Hot	36
Morning	Rainy	24

Gas Usage

Station	(mmscfd)
GLGR	50
TJGS	91
Total TNB	141
CBPS	38
KLPP	47
NPRI	147
PGLA	103
PLPS	19
SGRI	35
SKSP	3
Total IPP	391
Total Gas	533
Total Gas Required	533

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	15104	14369	13782	13300	13023	12854	12687	12688	12458	13630	14431	14959	14834	14783	15071	15343	15562	15399	15027	15739	16161	15879	15457	15159

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, December 6, 2021 6:56:55 PM

(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	214	213	213	240	307	363	354	354	354	353	354	355	356	354	355	355	355	355	354	355	355	355	355	355	355	355	354	355	354	360	355	456	454	456	455	457	454	457	454	457	453								
JMAH	U002	694	698	699	695	698	695	694	697	696	697	694	695	695	697	695	697	697	694	694	697	695	695	698	695	692	698	696	696	696	693	694	694	693	696	694	697	694	695	694	697									
JMHE	U001	978	977	978	978	894	903	902	847	852	853	852	851	849	854	850	856	852	852	849	854	866	910	909	961	966	962	957	959	961	960	958	959	961	960	960	965	960	963	977	976	976	979	981	978	976	977	976	982	
JMHE	U002	980	980	980	979	895	899	902	848	849	851	857	852	851	853	851	856	851	850	849	855	867	910	911	963	964	960	960	961	959	961	960	959	962	961	960	963	961	961	979	979	979	980	980	976	974	979	973	977	
JMJG	U002	674	672	674	675	674	664	671	672	676	671	679	669	672	673	672	674	686	671	672	675	671	672	671	671	666	676	676	670	676	669	676	672	668	674	674	674	673	671	676	666	679	678	674	678	675	672	677	678	
JMJG	U003	669	662	664	665	649	667	669	666	667	668	668	671	670	667	668	670	668	668	670	665	668	664	672	661	669	667	666	664	665	683	662	671	661	671	671	671	662	661	673	661	667	668	662	670	671	670	662	664	
JMJG	U004	975	974	974	976	944	899	900	878	851	850	854	851	850	853	850	851	851	852	851	852	852	907	911	952	952	957	956	958	958	955	957	963	956	956	956	956	955	957	963	973	971	971	976	967	970	971	918	894	
JMJG	U005	892	889	892	891	889	887	891	849	849	852	849	849	849	850	851	846	853	849	852	854	857	890	891	892	891	889	892	891	892	888	891	892	889	889	889	889	889	892	888	889	890	888	891	889	887	889	890	889	892
PKLG	U004	253	253	251	254	249	252	251	252	252	248	209	161	158	131	144	140	140	139	139	140	140	140	140	137	138	139	139	140	143	142	139	140	141	140	140	139	140	140	143	140	146	148	149	151	151	150	150	150	
PKLG	U006	448	446	446	447	450	447	446	447	448	449	426	368	269	270	267	269	269	269	269	315	429	446	450	453	451	449	445	449	449	449	448	449	446	448	447	448	449	449	446	447	448	446	449	447	446	446	447	449	
TBIN	U001	688	689	689	689	689	690	689	689	689	691	689	646	650	650	652	651	649	687	685	687	689	689	688	689	688	689	690	689	687	687	687	689	689	688	690	688	687	687	688	688	685	686	687	687	689	687	685	687	
TBIN	U002	692	692	693	694	690	691	694	691	693	693	694	648	656	653	654	655	652	690	692	693	692	693	686	693	693	691	696	691	692	692	687	692	691	693	693	692	692	692	693	689	693	693	691	692	692	694	690	692	
TBIN	U003	689	693	691	691	692	690	690	691	687	692	652	655	653	651	653	653	691	690	689	696	691	689	689	691	689	692	692	690	691	689	689	691	689	689	692	691	688	692	692	692	691	688	692	692	690	692	691	690	691
Total ST-Coal		8846	8838	8844	8874	8720	8747	8753	8580	8567	8568	8555	8315	8182	8187	8146	8179	8133	8271	8316	8441	8491	8662	8675	8807	8820	8813	8820	8816	8822	8828	8800	8818	8810	8821	8816	8829	8812	8804	8874	8850	8969	8982	8980	8975	8976	8976	8908	8906	
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			
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			
CBPS	BLK2	354	295	233	220	246	222	224	223	243	218	222	219	221	218	220	219	218	243	245	222	360	375	352	330	295	304	297	302	322	298	341	327	295	296	322	298	283	333	349	372	339	0	0	0	0	0	0	0	
EMPP	BLK1	0	0	83	83	206	207	204	203	205	246	474	741	747	758	755	755	754	753	755	753	753	754	753	751	752	751	753	749	750	747	745	746	746	746	745	747	747	747	747	746	749	747	753	755	756	756	757	758	
EMPP	BLK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77	126	183	196	502	491	496	493	495	495	495	496	462	495	494	497	497	193	198	198	200	200	211	
GLGR	GT01	104	104	104	104	104	82	70	67	69	70	68	69	68	68	68	68	67	68	67	68	67	68	68	68	68	69	67	68	67	68	66	67	97	104	104	104	68	68	69	104	103	104	104	103	106	66	67	69	
GLGR	GT02	105	105	105	105	105	80	68	68	68	68	68	68	68	68	68	68	69	68	68	68	68	68	68	68	68	68	67	68	67	67	67	67	97	104	104	104	68	68	71	105	104	105	104	104	104	66	68	68	
GLGR	ST1C	97	97	97	97	97	85	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	72	72	72	72	72	85	94	94	94	94	94	94	93	93	94	94	94	93	77	71	72		
KLPP	GT14	117	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	116	125	147	144	148	144	144	144	121	121	77		
KLPP	GT15	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	145	145	145	145	145	145	145	145	145		
KLPP	ST17	137	109	68	68	69	67	69	67	68	67	68	67	67	67	66	67	66	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	
NPRI	BLK1	500	516	511	514	406	334	329	329	337	332	328	326	327	323	332	329	329	451	448	527	524	530	525	524	520	518	515	524	518	524	523	520	522	525	526	525	507	526	524	526	508	526	526	518	511	524	513	521	
NPRI	BLK2	484	518	506	516	357	336	333	332	340	337	332	331	332	328	337	332	332	337	333	337	526	525	525	523	501	518	503	517	517	515	517	518	520	519	521	523	487	524	525	527	491	526	524	505	496	526	500	505	
PCGP	PGRG	585	604	598	604	609	601	353	352	269	262	261	260	261	262	262	261	264	486	605	605	613	602	604	599	598	592	603	594	604	602	600	602	603	603	603	582	603	603	604	582	604	602	595	587	604	590	599		
PGLA	GT11	183	169	168	170	171	169	170	172	171	168	168	170	169	170	168	169	169	169	170	169	172	206	207	181	168	164	168	186	188	187	214	214	213	214	215	198	169	208	217	212	215	216	215	216	213	216	212	215	
PGLA	GT12	188	173	172	173	175	174	174	174	175	174	173	172	174	173	174	172	173	173	174	175	173	176	212	210	185	172	169	172	191	191	192	218	219	218	219	220	201	173	212	220	216	221	220	220	217	222	217	221	
PGLA	ST10	216	205	204	205	207	205	205	205	206	204	201	201	204	204	204	201	204	205	205	205	205	206	232	233	223	205	205	206	216	218	220	240	241	241	240	239	233	206	230	243	239	241	238	237	235				

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	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	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	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	7	7	7	7	7	7	8	7	7	7	7	7	7	8	7	7	7	7	7	7	7	7	7	7
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	63	63
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	63	62
KNRG	HY01	35	34	34	35	35	35	35	34	35	35	34	34	35	23	23	23	23	23	22	23	23	34	34	35
KNRG	HY02	36	36	36	36	36	36	36	36	36	36	36	23	23	24	23	23	23	23	23	36	36	36	36	36
KNRG	HY03	35	35	35	35	35	35	35	35	35	35	35	23	23	24	23	23	23	23	23	35	35	35	35	35
KNYR	HY01	62	72	62	66	90	68	66	66	72	66	60	65	63	68	62	77	98	82	82	98	98	89	75	62
KNYR	HY02	97	57	57	60	62	62	61	61	62	60	57	55	59	100	99	-1	-1	-1	-1	-1	-1	-1	60	60
KNYR	HY03	96	96	96	98	98	98	98	98	96	-1	-1	54	57	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	HY04	98	57	58	60	62	62	61	61	62	60	57	55	60	99	0	0	0	0	0	0	0	0	0	0
LPJA	HY01	23	23	24	25	25	22	17	15	14	14	14	12	12	12	14	14	14	14	16	16	18	18	19	19
LPJA	HY02	22	22	21	22	22	21	17	15	14	14	14	12	12	12	0	0	0	0	0	15	20	20	20	20
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
PGAU	HY01	-1	-1	-1	-1	-1	-1	16	-1	-1	-1	-1	-1	-1	16	-1	-1	-1	-1	-1	-1	-1	21	-1	-1
PGAU	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
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	30	50	50
SIHY	HY03	30	30	30	30	30	30	30	30	30	30	30	30	0	0	0	0	0	0	0	0	0	30	49	50
SYPS	HY01	17	17	17	17	17	17	17	17	17	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY02	17	17	17	17	17	17	17	17	17	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY04	17	17	17	17	17	17	17	17	17	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY01	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY02	33	36	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	35	36	35	36	35	35	35	35	36	35
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	-1	32	32
TMGR	HY04	38	45	41	43	61	41	43	42	46	41	42	41	43	52	42	67	83	67	63	83	82	80	60	41
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	5	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5
UPIA	HY02	5	5	5	5	5	5	5	4	4	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2
Total Hydro		762	700	651	667	713	667	674	648	606	589	577	469	483	618	535	331	273	314	325	323	360	361	350	317
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
BKLS	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
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
JELS	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

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
STLS	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
TBLS	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	23	23	22	24	23	23	24	24	25	24	25	23	25	24	23	24	24	23	23	22	21	21	20	20
PCUF	CUFK	27	26	27	26	25	26	26	25	25	26	25	25	27	26	26	26	24	25	24	23	24	25	26	26
Total Co-Gen		50	49	49	50	48	49	50	49	50	50	48	50	51	51	50	49	50	48	48	47	47	48	49	47
Total Gen		15141	14763	14378	14051	13838	13616	13338	13133	13041	12948	12884	12753	12651	12795	12689	12514	12465	13167	13608	13964	14416	14712	14968	15083
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	30	30	29	29	29	31	29	29	29	31	29	29	31	29	29	31	31	31	31	29	29
TIE-PLTG		18	-6	-10	-15	37	26	20	-21	-2	-31	12	-10	-56	11	-17	-33	-12	-64	-42	-33	-34	-73	-12	12
Interconnection		48	24	20	15	67	55	49	8	29	-2	41	19	-25	40	12	-4	18	-34	-11	-3	-4	-41	20	41
System Total		15104	14750	14369	14047	13782	13572	13300	13136	13023	12961	12854	12745	12687	12766	12688	12529	12458	13212	13630	13978	14431	14764	14959	15053
SRev ST-Coal		229	237	231	301	444	417	413	458	454	453	420	624	655	594	581	557	596	457	454	425	400	353	340	208
SRev CCGT-Gas		695	778	766	792	1016	1221	1512	1515	1554	1673	1941	1989	1979	1987	1967	1978	1978	1528	1243	1059	733	641	451	475
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		951	951	1038	1038	1038	951	800	951	951	951	1052	1052	951	951	1002	1153	1153	1066	1066	1066	1066	979	979	828
Hydro		238	300	262	246	200	247	391	266	260	277	289	296	282	248	231	357	139	98	174	176	139	138	150	183
S.Reserve Total		2113	2266	2297	2377	2698	2836	3116	3190	3219	3354	3601	3961	3968	3780	3730	3894	3866	3236	2937	2726	2338	2198	1920	1845