

Daily System Generation Summary on Saturday

Saturday, March 19, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,779 MW
Distillate	0 MW
Total TNB	1,779 MW
Total IPP	17,514 MW
Total Co-Gen	0 MW
Total System	23,218 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,396	3.44 %
Gas	34,611	9.60 %
Total TNB	47,007	13.04 %
ST-Coal	211,898	58.77 %
LSS	4,446	1.23 %
Gas	96,332	26.72 %
Total IPP	312,676	86.73 %
Co-Gen	836	0.23 %
Total Co-Gen	836	0.23 %
Total Generation	360,519	100.00 %
PLTG	684	0.19 %
HVDC	-696	-0.19 %
Interconnection	-12	0.00 %
Net Energy	360,531	100.00 %

Maximum Demand Record

Date: 3/29/2022	18,840 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	18,019 MW
TNB Generation	2,944 MW
IPP Generation	14,111 MW
Spinning Reserve	914 MW
Maximum Demand	17,092 MW
Net Energy	360,531 MWH
Load Factor	87.89 %

Fuel Cost

Total Cost:	87,283,681.01 RM
Cost per Unit	24.21 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	921
Hydro	356
Syncon	428
Thermal	204
Total	1,909

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	29

Gas Usage

Station	(mmscfd)
GLGR	30
TJGS	149
Total TNB	179
CBPS	51
EMPP	201
KLPP	7
NPRI	146
PCGP	60
PGLA	106
SGB3	56
SGRI	2
SKSP	12
SPGP	64
Total IPP	706
Total Gas	885

Total Gas Required 885

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	15543	14863	14397	13876	13427	13238	13120	13090	12806	13919	14667	15245	15224	14973	15490	15793	16064	16074	15687	15822	17060	17092	16642	16419

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 5, 2022 10:39:01 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	696	698	694	696	695	695	697	693	695	696	672	687	699	696	697	696	698	697	693	696	695	696	697	696	695
JMAH	U002	698	694	697	696	690	696	694	695	697	695	697	696	695	695	693	695	697	697	696	697	695	696	693	696	694
JMHE	U002	978	980	974	900	881	878	878	879	881	881	882	880	883	878	882	877	878	881	878	892	920	959	962	960	958
JMJG	U001	671	679	673	681	673	676	688	670	680	673	677	680	677	678	677	673	676	673	669	672	681	599	664	672	672
JMJG	U002	675	673	670	671	673	668	667	685	660	666	674	663	662	664	666	664	670	678	676	667	677	682	668	672	678
JMJG	U004	974	973	974	938	900	885	884	885	886	883	885	886	887	887	885	886	887	885	916	932	958	958	957	954	956
JMJG	U005	968	970	969	895	887	878	883	881	881	880	881	884	883	881	881	879	877	881	877	924	952	958	961	958	952
PKLG	U003	281	281	281	282	281	281	278	279	281	277	278	280	281	281	279	283	280	280	283	280	279	278	279	279	276
PKLG	U004	274	274	273	276	274	270	269	271	275	276	274	273	274	273	272	273	270	272	273	277	276	271	273	269	280
PKLG	U006	268	268	270	269	269	278	356	432	447	445	443	443	439	437	440	440	443	446	443	442	441	444	445	447	446
TBIN	U001	699	699	699	699	699	699	699	699	699	699	699	699	699	699	702	698	697	697	697	697	697	697	697	697	697
TBIN	U003	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698
TBIN	U004	936	939	939	903	896	884	884	882	885	882	883	883	883	886	881	884	884	881	888	922	943	938	940	938	942
Total ST-Coal		8816	8826	8811	8604	8516	8486	8575	8649	8665	8651	8643	8652	8660	8650	8655	8647	8656	8669	8647	8744	8864	8873	8946	8933	8933
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	365	365	365	369	362	367	369	365	365	226	223	222	216	218	220	221	221	219	219	298	356	363	364	358	365
EMPP	BLK1	709	671	710	708	690	684	683	659	668	708	656	623	622	621	601	441	429	646	706	710	702	714	715	710	711
EMPP	BLK2	708	672	710	709	691	684	685	660	671	706	657	621	621	622	601	441	428	646	712	709	702	714	715	711	711
GLGR	GT01	98	96	98	96	97	97	97	97	96	98	98	97	96	96	97	97	96	97	99	97	97	97	98	98	96
GLGR	ST1C	41	41	41	42	42	42	42	42	41	42	41	43	41	41	42	41	41	41	42	41	42	42	42	42	42
KLPP	GT13	123	122	119	119	119	119	124	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KLPP	GT15	120	120	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KLPP	ST17	147	141	99	66	65	65	66	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPRI	BLK1	514	513	516	515	516	484	309	312	310	310	309	310	310	311	309	310	310	309	446	515	509	515	514	510	508
NPRI	BLK2	523	524	524	523	524	460	319	322	319	322	319	319	321	320	318	319	319	319	447	516	512	526	526	519	519
PCGP	PGRG	264	260	264	262	262	259	264	260	259	267	261	260	262	259	263	261	261	260	259	260	260	271	270	262	261
PGLA	GT11	218	217	218	217	208	170	171	170	171	171	170	170	170	169	169	165	168	168	190	215	215	216	217	217	212
PGLA	GT12	222	220	221	221	211	173	175	173	174	176	174	173	174	172	174	173	174	173	171	169	171	171	194	218	218
PGLA	ST10	237	237	237	239	235	205	205	204	205	206	204	204	204	202	203	204	204	204	204	202	202	205	205	205	205
SGB3	GT31	133	113	114	116	114	113	114	113	113	117	114	114	113	113	113	114	114	114	110	117	114	115	115	110	115
SGB3	GT32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	GT33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	ST34	94	65	65	65	65	65	65	65	67	67	66	66	65	65	66	66	66	66	66	66	66	66	66	66	66
SGRI	GT13	135	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	ST14	70	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKSP	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
SPGP	BLK1	359	361	361	361	362	361	360	360	359	359	359	360	359	359	361	361	361	360	361	359	360	358	359	359	357
TJGS	GT1A	226	226	226	226	226	226	199	125	125	126	126	126	126	126	125	129	129	128	145	123	164	227	226	223	163
TJGS	GT1B	217	213	214	218	217	217	215	186	117	116	113	114	114	114	118	114	119	113	112	155	213	209	210	148	115
TJGS	ST1C	245	245	245	245	245	245	245	238	165	165	165	165	165	165	165	165	165	165	161	161	161	176	176	188	244
TJGS	GT2B	220	220	220	220	220	146	154	154	154	154	152	152	152	152	152	152	152	152	152	152	152	217	217	154	156
TJGS	ST2C	124	124	124	124	124	108	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	124	124	98
Total CCGT-Gas		6112	5971	5703	5661	5595	5290	4985	4706	4476	4432	4305	4236	4228	4192	3877	3845	4283	4674	4931	4913	5091	5267	5321	5318	5007
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	23	23	23	23	23	23	22	23	22	23	23	22	22	22	22	11	11	11	22	22	22	22	22	22	22
BSIA	HY03	23	23	23	23	23	23	23	23	23	23	23	23	23	22	22	12	12	12	21	22	22	22	22	22	22

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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	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	-1	-1	-1	
HTRG	HY03	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
HTRG	HY04	3	3	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
KNRG	HY01	34	34	25	25	25	24	25	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
KNRG	HY02	37	37	26	26	26	25	26	26	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
KNRG	HY03	36	36	23	23	23	22	23	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	
LPJA	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	5	5	
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	HY03	20	20	20	20	20	20	21	21	20	21	21	21	21	21	21	21	20	20	20	20	20	20	20	20	
PGAU	HY04	20	20	20	20	20	20	20	20	20	20	21	21	21	21	20	21	20	20	20	20	20	20	19	20	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	47	47	47	30	
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	30	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	50	50	50	50	50	50	50	30	
SYPS	HY01	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	
SYPS	HY03	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	25	25	25	25	25	25	
SYPS	HY04	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	25	25	25	25	25	25	
TMGR	HY01	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	34	34	-1	-1	
TMGR	HY02	34	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	37	89	90	90	90	90	87	87	86	86	81	
TMGR	HY03	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	31	85	84	84	85	85	85	85	81	81	
TMGR	HY04	72	41	55	43	41	42	83	63	73	85	59	45	46	45	43	41	41	42	64	47	42	84	84	63	
UJLI	HY01	126	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	85	-1	-1	-1	95	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	97	179	100	186	186	
UPIA	HY02	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Total Hydro		574	356	302	240	238	236	278	258	266	280	253	238	239	239	237	234	213	214	236	277	356	455	457	436	485
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	2	4	6	13	18	21	24	25	23	28	28	27	25	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	5	9	14	19	20	29	21	28	32	25	31	19	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	3	6	11	15	15	26	31	32	11	20	32	32	10	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	3	10	17	25	30	34	36	39	41	47	45	44	40	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	6	9	16	12	9	25	8	7	12	11	11	8	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	8	15	18	32	36	31	33	32	34	33	47	32	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	4	8	14	19	18	11	10	12	22	30	25	29	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	7	11	18	25	32	35	39	41	47	48	41	26	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	3	4	10	18	32	43	56	67	57	90	50	95	90	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	3	9	14	15	27	21	38	34	43	21	28	23	28	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	5	7	13	17	17	30	21	17	26	32	23	13	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	4	13	18	23	27	19	30	30	30	28	30	9	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	4	13	22	25	31	40	28	20	15	28	39	51	50	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	5	13	21	29	35	41	43	47	46	35	52	52	
SSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	6	5	15	19	29	16	19	39	20	23	45	22	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	3	5	9	17	15	12	14	10	5	15	29	21	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	7	16	24	19	30	30	30	24	17	30	30	30	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	3	9	64	142	250	338	440	470	504	530	457	540	599	
PCUF	CUFG	22	19	21	19	20	23	25	25	26	26	25	25	24	25	24	23	25	23	22	23	23	23	23	23	

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	18	4	5	3	5	5	5	5	4	6	7	5	5	4	4	5	4	5	6	5	6	5	5	5	4	4	6	4	4	4	4	4	22	21	23	21	24	20	23	23	26	26	27	25	26	26	26	25	
Total Co-Gen		40	23	26	22	25	28	30	30	30	32	32	30	30	30	30	32	30	30	31	29	31	29	28	30	27	26	30	26	27	27	27	27	45	43	47	43	50	45	45	45	48	49	50	47	49	47	48	47	
Total Gen		15542	15176	14842	14527	14374	14040	13868	13643	13437	13395	13233	13156	13157	13141	13117	12799	12808	13338	13838	14319	14604	14918	15202	15250	15220	15001	14956	15227	15495	15751	15808	15900	16056	16084	16153	15879	15705	15636	15839	16635	17087	17063	17105	16790	16703	16506	16436	16156	
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	0	0
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	
TIE-PLTG		28	46	8	47	6	42	21	34	39	-1	24	32	66	44	56	-1	31	-37	-52	-33	-34	-18	-14	-11	25	33	12	35	34	42	44	47	21	17	108	78	47	-16	46	68	56	56	42	40	90	48	46	30	
Interconnection		-1	17	-21	18	-23	13	-8	5	10	-30	-5	3	37	15	27	-30	2	-66	-81	-62	-63	-47	-43	-40	-4	4	-17	6	5	13	15	18	-8	-12	79	49	18	-45	17	39	27	27	13	11	61	19	17	1	
System Total		15543	15159	14863	14509	14397	14027	13876	13638	13427	13425	13238	13153	13120	13126	13090	12829	12806	13404	13919	14381	14667	14965	15245	15290	15224	14997	14973	15221	15490	15738	15793	15882	16064	16096	16074	15830	15687	15681	15822	16596	17060	17036	17092	16779	16642	16487	16419	16155	
SRev ST-Coal		145	135	150	352	405	447	505	431	418	427	440	434	428	431	428	430	421	415	429	392	280	181	198	211	211	196	212	155	137	161	144	143	152	161	161	162	161	157	180	171	185	179	177	169	169	156	170	173	
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 CCGT-Gas		979	1101	1109	970	1036	1341	1646	1925	1930	1974	2101	2170	2178	2184	2214	2529	2561	2123	1732	1475	1493	1315	1139	1085	1088	1399	1458	1266	1013	720	698	680	520	528	544	704	1010	1209	999	559	190	221	152	357	425	533	605	863	
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 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	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		313	313	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	500	500	500	500	500	500	500	500	500	500	500	500	500	500	313	126	313	500	500	313	126	126	126	214	214	214	214	214	214	
Hydro		472	392	356	368	370	372	330	350	342	328	355	370	369	369	371	374	395	394	372	420	428	329	327	348	299	304	337	306	296	332	321	328	318	390	458	441	316	313	437	496	402	429	371	376	370	470	455	473	
S.Reserve Total		1996	2028	2291	2366	2487	2836	3157	3382	3366	3405	3572	3650	3651	3660	3689	4009	4053	3608	3209	2874	2701	2325	2164	2144	2098	2399	2507	2227	1946	1713	1663	1651	1490	1392	1289	1620	1987	2179	1929	1352	903	955	914	1116	1205	1373	1444	1723	