

Daily System Generation Summary on Sunday

Sunday, March 20, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,920 MW
Distillate	0 MW
Total TNB	1,920 MW
Total IPP	17,051 MW
Total Co-Gen	0 MW
Total System	22,617 MW

Generation Mix

Type	MWh	Percentage
Hydro	11,396	3.28 %
Gas	32,795	9.43 %
Total TNB	44,191	12.71 %
ST-Coal	210,437	60.51 %
LSS	3,643	1.05 %
Gas	88,397	25.42 %
Total IPP	302,477	86.98 %
Co-Gen	932	0.27 %
Total Co-Gen	932	0.27 %
Total Generation	347,600	99.96 %
PLTG	550	0.16 %
HVDC	-696	-0.20 %
Interconnection	-146	-0.04 %
Net Energy	347,746	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:	21:30:00 Hour
Total Set On Bus	17,549 MW
TNB Generation	2,788 MW
IPP Generation	13,594 MW
Spinning Reserve	1,120 MW
Maximum Demand	16,463 MW
Net Energy	347,746 MWH
Load Factor	88.01 %

Fuel Cost

Total Cost:	82,130,149.13 RM
Cost per Unit	23.63 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,070
Hydro	481
Syncon	441
Thermal	222
Total	2,214

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	30
TJGS	142
Total TNB	173
CBPS	50
EMPP	199
NPRI	148
PCGP	54
PGLA	77
SGB3	59
SKSP	5
SPGP	61
Total IPP	653
Total Gas	825
Total Gas Required	825

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	15802	15144	14597	14101	13643	13359	13170	12894	12450	12891	13586	14013	14093	14154	14583	14984	15033	14882	14430	14899	16323	16379	16133	15936

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 5, 2022 10:39:57 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Sunday

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	694	698	695	696	695	697	695	697	695	696	698	695	696	698	695	696	697	694	695	695	696	698	696	695	696
JMAH	U002	694	691	695	692	696	696	697	692	696	695	693	694	694	695	695	697	695	696	695	693	694	697	697	697	696
JMHE	U002	975	974	973	911	899	899	900	903	899	900	901	901	899	899	882	880	883	881	881	881	880	980	973	976	975
JMJG	U001	666	665	664	667	667	668	667	666	668	665	665	670	667	667	671	668	671	667	669	664	666	666	666	671	668
JMJG	U002	585	590	643	675	676	668	673	674	676	674	673	677	675	673	677	676	671	673	672	678	673	677	677	675	679
JMJG	U004	971	970	973	960	906	906	904	906	903	905	907	907	907	906	882	883	886	885	883	884	881	884	921	929	928
JMJG	U005	974	971	972	939	904	898	896	895	898	899	900	900	901	899	882	876	878	879	878	876	884	883	923	927	929
PKLG	U003	280	279	276	275	278	280	275	274	276	276	275	277	276	278	279	281	281	278	278	280	280	278	280	277	279
PKLG	U004	274	274	267	272	273	268	275	274	270	274	273	270	275	278	276	274	275	272	273	267	271	267	272	270	272
PKLG	U006	439	411	372	361	360	360	358	359	360	359	358	358	358	360	358	358	358	357	358	358	359	357	358	359	357
TBIN	U001	697	697	697	697	697	697	697	697	697	697	697	697	697	697	701	699	700	701	698	694	697	699	696	700	693
TBIN	U003	698	698	698	698	698	698	698	698	698	698	698	698	698	698	700	702	702	698	698	698	698	698	698	696	696
TBIN	U004	938	936	934	913	901	905	903	906	901	902	904	904	903	902	883	883	882	884	883	883	882	882	933	932	937
Total ST-Coal		8885	8854	8859	8756	8650	8640	8638	8641	8639	8639	8640	8648	8648	8646	8573	8566	8575	8567	8574	8562	8565	8558	8742	8763	8749
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	362	363	367	358	361	361	362	360	362	359	361	361	361	359	302	221	224	224	225	225	224	221	221	223	222
EMPP	BLK1	619	666	723	687	670	710	648	692	629	631	628	641	709	705	612	446	410	514	553	692	715	714	709	708	709
EMPP	BLK2	619	664	723	690	671	708	649	693	629	630	628	642	708	705	613	487	409	513	554	705	715	713	711	709	710
GLGR	GT01	106	108	109	109	107	96	95	96	96	96	96	95	97	96	97	96	98	97	96	96	98	97	96	97	96
GLGR	ST1C	46	46	47	47	45	42	41	42	40	41	42	41	41	41	40	42	40	41	40	41	42	41	41	40	40
NPRI	BLK1	512	515	529	515	515	515	515	515	511	515	515	424	320	319	325	317	320	310	310	311	366	401	396	442	395
NPRI	BLK2	517	520	531	517	520	519	518	520	515	520	517	424	322	320	325	317	320	304	305	304	365	405	395	445	400
PCGP	PGRG	261	263	277	260	262	262	261	261	262	262	261	261	260	260	271	260	261	262	262	272	266	262	262	260	261
PGLA	GT11	216	217	220	217	217	171	169	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGLA	GT12	218	220	223	220	221	173	172	172	154	156	157	155	157	159	157	158	158	158	158	159	160	156	155	156	157
PGLA	ST10	240	240	244	239	239	204	204	96	92	91	90	91	91	91	90	90	90	90	92	90	90	90	90	91	91
SGB3	GT31	139	134	135	112	114	114	114	115	114	115	114	114	114	117	115	115	114	114	114	117	114	113	113	113	115
SGB3	GT32	146	146	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	GT33	142	36	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	221	193	102	68	66	66	66	66	66	66	65	64	66	66	66	66	66	65	65	68	68	64	64	66	66
SKSP	BLK1	347	341	218	218	192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPGP	BLK1	360	362	359	359	359	359	360	361	360	361	361	359	361	361	362	361	360	362	359	360	359	360	360	360	359
TJGS	GT1A	225	225	225	225	225	225	225	225	161	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
TJGS	GT1B	211	213	209	209	210	212	216	210	215	150	114	113	114	117	112	113	117	116	117	114	117	117	115	114	116
TJGS	ST1C	248	248	248	248	248	248	248	209	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164
TJGS	GT2B	219	219	219	219	219	219	152	153	153	153	153	153	154	154	154	154	154	154	152	152	152	152	152	152	152
TJGS	ST2C	124	124	124	124	124	124	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Total CCGT-Gas		6098	6063	5838	5641	5585	5328	5206	4988	4768	4613	4491	4327	4263	4254	4035	3629	3533	3713	3790	4077	4243	4310	4271	4364	4274
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	23	23	23	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	23
BSIA	HY03	23	23	23	23	23	23	23	23	23	23	23	23	22	22	23	23	22	23	22	22	22	23	23	23	23
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	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	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	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	-1
HTRG	HY03	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Daily MW Generation on Sunday

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
HTRG	HY04	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
KNRG	HY01	34	34	22	21	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY02	37	37	22	21	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY03	35	35	23	22	22	22	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
LPIA	HY01	15	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
LPIA	HY02	16	15	17	17	14	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
MNOR	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	HY03	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
PGAU	HY04	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
SIHY	HY01	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31
SIHY	HY02	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30
SIHY	HY03	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30
SYPS	HY01	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25
SYPS	HY03	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25
SYPS	HY04	25	25	25	25	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	17	17	17	17
TMGR	HY02	80	80	38	37	37	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	89	89	89
TMGR	HY03	82	82	33	32	32	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	84	84	84
TMGR	HY04	42	42	84	61	60	84	44	66	41	42	51	45	84	82	77	42	41	55	45	41	85	73	42	40
UJLI	HY01	88	-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	90	93	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	151	167	152
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		808	607	428	400	348	366	230	252	227	234	229	268	266	261	226	225	240	229	207	319	490	347	344	358
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
KDLS	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
KMLS	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
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	22	23	22	23	24	23	24	24	24	23	23	24	24	24	22	22	23	21	22	21	21	21	21	21
PCUF	CUFK	25	3	4	6	3	4	4	4	5	4	4	4	4	2	4	4	5	3	5	5	4	25	26	28
Total Co-Gen		47	26	26	29	27	27	28	28	29	27	27	28	28	26	27	28	29	25	27	28	25	47	47	47
Total Gen		15838	15550	15151	14826	14610	14361	14102	13909	13663	13506	13392	13231	13207	13194	12895	12458	12417	12693	12854	13203	13556	13861	13945	14068
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

Daily MW Generation on Sunday

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																								
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																							
TIE-PLTG		65	33	36	49	42	51	30	38	49	52	62	66	66	41	30	-2	-4	-4	-8	1	-1	-58	-39	-24	-74	-31	-21	-66	47	21	-24	16	93	38	75	21	75	39	45	29	43	28	47	-5	23	21	25	64
Interconnection		36	4	7	20	13	22	1	9	20	23	33	37	37	12	1	-31	-33	-33	-37	-28	-30	-87	-68	-53	-103	-60	-50	-95	18	-8	-53	-13	64	9	46	-8	46	10	16	0	14	-1	18	-34	-6	-8	-4	35
System Total		15802	15546	15144	14806	14597	14339	14101	13900	13643	13483	13359	13194	13170	13182	12894	12489	12450	12726	12891	13231	13586	13948	14013	14121	14093	14055	14154	14473	14583	14766	14984	14988	15033	15111	14882	14598	14430	14497	14899	15817	16323	16455	16379	16463	16133	16104	15936	15605
SRev ST-Coal		169	207	242	345	447	455	404	403	455	408	409	401	400	399	415	416	414	420	410	421	424	433	309	288	302	296	301	303	235	150	150	163	169	146	153	148	155	214	183	158	165	172	187	214	150	157	159	183
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		
SRev CCGT-Gas		1084	1119	1131	1115	1171	1078	1200	1418	1278	1433	1555	1719	1783	1792	2011	2417	2513	2333	2256	1969	1803	1736	1775	1682	1772	1766	1650	1425	1146	1068	894	1056	894	886	1260	1587	1647	1727	1471	734	435	356	370	291	544	615	727	962
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		
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		
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		
Syncon		214	401	588	588	588	588	588	588	588	588	588	588	588	588	588	588	588	588	588	588	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	313	313	313	313	313	313	313	313	313		
Hydro		628	467	459	487	489	471	353	331	356	356	349	354	315	317	322	357	358	343	354	349	412	408	551	554	540	550	534	516	557	537	492	533	502	565	554	478	477	546	469	604	375	358	388	302	420	370	426	401
S.Reserve Total		2095	2194	2420	2535	2695	2592	2545	2740	2677	2785	2901	3062	3086	3096	3336	3778	3873	3684	3608	3327	3139	3077	3135	3024	3114	3112	2985	2744	2438	2255	2036	2252	2065	2097	2467	2713	2779	2987	2623	1809	1288	1199	1258	1120	1427	1455	1625	1859