

Daily System Generation Summary on Sunday

Sunday, April 4, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,336 MW
Distillate	0 MW
Total TNB	2,336 MW
Total IPP	17,519 MW
Total Co-Gen	0 MW
Total System	23,834 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,442	4.17 %
Gas	45,505	13.14 %
Total TNB	59,947	17.31 %
ST-Coal	221,974	64.11 %
LSS	3,177	0.92 %
Gas	59,535	17.19 %
Total IPP	284,686	82.22 %
Co-Gen	183	0.05 %
Total Co-Gen	183	0.05 %
Total Generation	344,816	99.59 %
PLTG	-728	-0.21 %
HVDC	-699	-0.20 %
Interconnection	-1,427	-0.41 %
Net Energy	346,243	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:	21:00:00 Hour
Total Set On Bus	17,440 MW
TNB Generation	3,612 MW
IPP Generation	12,825 MW
Spinning Reserve	994 MW
Maximum Demand	16,485 MW
Net Energy	346,243 MWH
Load Factor	87.51 %

Fuel Cost

Total Cost:	42,858,659.48 RM
Cost per Unit	12.42 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	714
Hydro	227
Syncon	638
Thermal	470
Total	2,049

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmcsfd)
GLGR	50
TJGS	103
Total TNB	153
CBPS	44
NPRI	142
PGLA	49
Total IPP	234
Total Gas	387
Total Gas Required	387

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	15955	15226	14636	14122	13753	13397	13305	13030	12368	12887	13490	13772	13816	13845	14316	14624	14974	14613	14341	14746	16291	16485	16290	16118

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, May 7, 2021 1:42:00 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Sunday

		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		692	695	692	694	694	693	692	692	692	692	692	693	694	693	598	498	607	693	692	691	693	692	693	692	691	693	692	693	692	694	692	693	693	686	694	692	692	694	692	692	694	692	690						
JMAH	U002		696	697	695	693	697	694	694	696	694	695	693	695	695	694	696	638	505	609	698	697	695	695	695	697	694	553	451	451	454	454	513	659	654	695	695	696	695	696	697	695	694	698	697	697	698	698	698	695	
JMHE	U001		979	983	979	980	899	899	900	849	850	850	799	800	801	799	802	799	800	804	799	798	801	833	905	904	895	900	906	903	904	904	897	901	903	903	902	896	900	900	966	978	977	981	981	981	979	985	979	978	
JMHE	U002		980	981	980	978	897	902	898	851	850	851	801	798	799	799	803	798	800	802	800	797	801	827	906	902	897	897	906	902	906	903	897	901	905	903	906	897	899	900	988	977	975	980	981	984	979	983	979	980	
JMJG	U001		643	645	647	645	647	670	672	675	670	673	672	671	673	671	669	677	672	672	671	674	672	676	672	671	673	665	673	671	673	672	674	672	673	668	671	668	671	673	652	648	612	652	672	669	671				
JMJG	U002		649	648	647	647	652	671	673	672	673	674	672	671	673	672	674	672	673	674	672	671	673	673	674	672	671	674	672	673	674	672	671	674	672	675	674	672	673	680	649	649	617	653	671	673	673				
JMJG	U003		648	645	645	646	646	668	668	671	673	671	672	668	671	668	672	667	667	670	668	670	672	671	667	670	672	668	670	672	671	669	670	672	670	671	670	672	671	672	676	667	653	642	611	654	668	671	671		
JMJG	U004		904	903	903	903	903	902	901	854	854	804	805	805	805	805	806	806	807	806	806	805	807	828	885	897	900	898	898	899	898	897	897	897	897	897	897	897	897	897	897	898	895	897	899	897	895	898	897	896	
JMJG	U005		892	891	891	892	890	891	892	849	848	800	800	805	801	798	800	800	803	803	799	801	800	843	894	892	890	890	891	892	892	894	892	892	895	889	892	892	895	892	891	886	886	884	887	887	889	888	895	891	
PKLG	U003		281	279	276	281	278	279	278	279	276	277	278	278	279	278	225	151	153	154	153	179	270	278	280	247	153	155	154	155	155	155	155	155	155	155	155	154	153	156	241	266	270	272	274	272	274	276			
PKLG	U004		279	277	277	278	275	275	274	277	277	277	278	274	278	272	212	156	151	156	153	188	250	280	278	279	249	167	153	153	156	155	153	154	153	154	152	153	153	164	246	276	277	282	280	277	276	277			
PKLG	U006		448	453	448	449	448	449	446	449	446	449	453	449	444	451	455	383	295	268	280	357	423	446	445	446	415	320	270	268	271	271	267	268	271	267	269	269	268	269	267	281	354	430	445	446	447	449	449	445	
TBIN	U002		691	695	691	693	691	693	693	691	691	693	694	692	689	695	687	693	690	692	694	689	695	690	693	694	687	697	634	553	634	668	696	692	690	696	692	691	691	695	693	694	690	692	693	692	684	694	692	692	
TBIN	U004		984	984	982	982	938	904	903	855	852	803	803	802	803	805	804	802	804	803	804	804	803	852	902	905	903	903	904	903	904	905	902	900	903	904	903	906	902	904	938	982	984	983	982	983	981	984	982	984	
Total ST-Coal			9766	9776	9753	9761	9555	9590	9584	9360	9341	9209	9112	9100	9104	9101	9002	8632	8323	8520	8690	8821	9052	9252	9514	9526	9462	8954	8624	8550	8644	8673	8804	9094	9094	9168	9175	9158	9155	9167	9349	9423	9655	9727	9745	9653	9757	9833	9826	9819	
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	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	0	0	
CBPS	BLK2		356	353	358	352	358	355	272	225	229	223	223	221	223	219	206	212	223	223	221	228	234	225	228	221	220	225	231	226	223	223	220	229	226	224	226	223	224	220	339	358	360	365	362	364	366	357	362		
EMPP	BLK2		766	767	765	766	766	766	767	766	764	766	767	768	770	770	767	772	772	770	771	771	768	770	770	770	769	767	763	761	758	755	755	757	757	758	763	770	769	771	771	773	774	760	764	763	0	0	0	0	
GLGR	GT01		99	100	101	100	101	101	87	67	68	69	67	68	68	67	69	67	68	68	68	68	67	69	69	67	67	68	69	69	68	68	70	69	68	69	68	67	68	70	100	103	105	104	105	103	106	103	103		
GLGR	GT02		100	100	101	100	100	100	86	67	67	68	67	68	68	67	68	68	68	68	68	68	67	67	68	67	67	68	67	67	68	68	67	67	68	67	67	68	67	67	68	67	101	104	104	103	104	105	105	104	104
GLGR	ST1C		91	91	91	91	91	92	88	73	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	73	73	73	72	73	72	72	73	72	88	94	94	95	93	93	93	93	93			
NPRI	BLK1		506	509	508	505	520	514	499	521	525	520	519	398	394	437	320	319	321	319	321	320	321	320	321	319	452	408	519	521	515	515	524	523	518	515	514	515	516	511	506	515	520	522	526	535	526	527			
NPRI	BLK2		509	515	513	511	523	517	503	523	326	319	319	319	316	310	315	294	308	322	319	317	323	325	353	428	328	352	344	523	485	494	509	346	523	525	391	501	445	427	382	516	510	518	521	522	527	533	527	531	
PCGP	PGRG		261	262	261	262	262	262	262	262	270	261	260	262	261	260	260	261	262	267	260	260	264	267	274	269	262	181	180	274	270	408	602	603	519	513	267	260	263	262	402	598	591	601	609	609	601	600	598	600	
PGLA	GT11		154	154	154	153	159	156	151	159	162	159	159	160	157	158	158	150	154	161	159	159	160	161	166	165	232	230	227	225	222	222	157	162	163	163	162	162	163	163	225	226	157	198	198	228	229	229	228		
PGLA	ST10		90	89	89	89	88	89	88	90	90	90	90	90	89	89	89	88	89	90	90	90	90	91	0	0	111	113	113	112	111	111	93	87	87	88	87	87	87	87	87	87	102	116	90	103	104	117	117	118	118
SPGP	BLK1		361	361	359	362	361	363	361	361	362	359	360	359	363	360	361	361	359	361	358	360	361	359	360	361	359	360	359	360	359	719	721	722	722	718	721	720	720	721	720	720	721	719	719	719	719	719	719	719	
SPGP	BLK2		714	360	359	362	360	360	361	360	361	360	360	359	360	358	361	359	359	359	359	361	359	360	360	359	360	359	360	718	720	720	721	718	719	719	720	718	720	719	719	719	719	719	719	719	719	719	719		
TJGS	GT1A		221	210	193	193	152	149	149	152	154	153	148	149	158	158	155	134	141	150	152	155	149	153	150	152	152	155	149	153	155	155	152	149	159	150	153	153	151	149	152	239	234	233	234	234	233	234	234	234	
TJGS	GT1B		204	197	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	ST1C		243	243	98	91	80	80	78	82	82	82	82	82	82	82																																			

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
KNRG	HY02	36	36	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY03	35	35	35	23	24	24	25	25	24	25	24	24	25	25	25	24	24	25	25	24	22	22	21	21
KNYR	HY01	62	61	61	61	87	64	52	101	101	101	101	96	53	95	0	0	0	0	98	102	102	100	102	102
KNYR	HY02	56	56	55	55	56	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	99	102	100	100	99	63	60	61
KNYR	HY03	56	56	54	54	56	57	93	99	100	100	100	99	99	95	51	94	98	101	100	99	59	56	57	52
KNYR	HY04	98	98	97	97	98	99	95	101	102	102	102	101	101	96	94	95	100	103	101	101	103	0	0	0
LPIA	HY01	14	14	14	14	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	12	12	14	14
LPIA	HY02	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	12	12	15	15	15
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	HY01	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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
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	51	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	0	0	0
SIHY	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
SYPS	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
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	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
SYPS	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
TMGR	HY02	43	44	43	42	67	46	41	91	89	56	45	77	45	44	44	38	41	54	66	45	79	92	76	66
TMGR	HY03	80	81	30	29	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY04	81	81	-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	93	-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	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
UPIA	HY02	4	4	4	4	4	5	5	4	4	5	4	5	4	4	4	4	4	4	4	4	4	4	4	4
Total Hydro		769	720	582	443	471	394	387	499	499	486	454	486	453	450	437	342	432	372	388	468	498	520	360	318
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
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
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
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	1	3	4	4	2	5	4	4	4	6	4	3	5	4	4	6	5	4	4	5	4	3	5	4
PCUF	CUFK	3	4	3	3	3	4	4	3	4	4	2	2	4	3	5	2	4	6	3	3	2	1	5	3
Total Co-Gen		4	7	7	7	5	9	8	7	8	10	6	5	9	7	10	6	8	12	8	7	6	6	9	6

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																									
Total Gen		15895	15495	15129	14826	14504	14261	14043	13827	13632	13458	13319	13222	13199	13224	12998	12477	12326	12568	12776	13034	13358	13635	13708	13776	13805	13767	13752	13946	14249	14449	14595	14784	14900	14877	14537	14422	14300	14170	14678	15936	16284	16298	16446	16288	16269	16070	16061	15825	
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		-30	-30	-28	-28	-29	-29	-30	-30	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-28	-28	-29	-29	-30	-30	-29	-29	-30	-30	-29	-29	-30	-30	-28	-28	-29	-29	-29	-29	-29		
TIE-PLTG		-23	-69	-61	-62	-97	-98	-43	-79	-86	-62	-42	-24	-70	-4	3	21	-5	-62	-74	-32	-96	-7	-28	-10	26	-14	-57	-96	-31	-24	9	13	-39	-23	-42	0	-5	23	-33	50	30	8	0	-47	14	-94	-21	5	
Interconnection		-53	-99	-90	-90	-126	-127	-73	-109	-114	-90	-71	-53	-100	-34	-26	-7	-34	-91	-103	-61	-125	-36	-57	-39	-4	-44	-86	-125	-59	-53	-21	-16	-68	-51	-70	-29	-35	-7	-62	21	1	-23	-31	-75	-14	-123	-50	-24	
System Total		15955	15601	15226	14923	14636	14394	14122	13942	13753	13555	13397	13282	13305	13264	13030	12490	12368	12667	12887	13103	13490	13678	13772	13822	13816	13818	13845	14078	14316	14510	14624	14808	14974	14934	14613	14457	14341	14183	14746	15921	16291	16329	16485	16371	16290	16200	16118	15856	
SRev ST-Coal		205	195	218	210	411	380	385	466	481	560	556	566	566	600	782	780	780	647	655	612	529	454	445	487	601	657	654	645	612	599	544	545	468	464	473	480	469	284	239	314	242	226	295	214	138	145	152		
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		
SRev CCGT-Gas		980	1343	1548	1373	1514	1720	1570	1669	1846	1879	1887	2003	2003	1968	2084	2148	2116	1348	1359	1355	1347	1332	1264	1191	1259	1180	1236	955	889	741	630	797	677	690	1074	976	1030	1057	961	182	125	196	109	112	65	48	78	65	
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 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		802	802	889	889	976	926	1077	1077	927	926	1077	1077	1077	1077	1077	1077	1077	1077	927	825	825	825	752	839	839	839	688	926	825	825	825	825	825	825	659	846	976	976	702	489	302	302	302	302	0	302	151	302	
Hydro		241	240	291	302	188	315	171	59	58	222	103	71	105	108	121	216	124	84	68	90	61	39	172	127	154	191	338	95	90	48	65	94	53	61	192	153	144	203	383	296	425	402	357	392	634	549	648	587	
S.Reserve Total		2228	2580	2946	2774	3089	3341	3203	3271	3312	3587	3623	3717	3751	3719	3882	4223	4097	3289	3001	2925	2845	2725	2642	2602	2739	2811	2919	2630	2449	2226	2119	2260	2100	2044	2389	2448	2630	2705	2330	1206	1166	1142	994	1101	913	1037	1022	1106	