

Daily System Generation Summary on Sunday

Sunday, December 5, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,502 MW
Distillate	0 MW
Total TNB	2,502 MW
Total IPP	15,124 MW
Total Co-Gen	0 MW
Total System	20,469 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,343	4.79 %
Gas	33,005	10.29 %
Total TNB	48,348	15.08 %
ST-Coal	204,357	63.74 %
LSS	2,986	0.93 %
Gas	64,363	20.07 %
Total IPP	271,706	84.74 %
Co-Gen	985	0.31 %
Total Co-Gen	985	0.31 %
Total Generation	321,039	100.13 %
PLTG	-313	-0.10 %
HVDC	718	0.22 %
Interconnection	405	0.13 %
Net Energy	320,634	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:	20:30:00 Hour
Total Set On Bus	16,127 MW
TNB Generation	2,963 MW
IPP Generation	11,960 MW
Spinning Reserve	1,158 MW
Maximum Demand	14,997 MW
Net Energy	320,634 MWH
Load Factor	89.08 %

Fuel Cost

Total Cost:	70,416,458.94 RM
Cost per Unit	21.93 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	491
Hydro	384
Syncon	629
Thermal	155
Total	1,659

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	23

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	87
Total TNB	115
CBPS	46
NPRI	146
PGLA	100
PLPS	53
SKSP	2
Total IPP	347
Total Gas	462
Total Gas Required	462

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	14317	13729	13225	12702	12486	12222	12252	12036	11626	12085	12792	13359	13290	13360	13613	13704	13661	13599	13397	14162	14887	14864	14631	14257

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, January 3, 2022 12:32:41 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

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	693	696	698	696	698	697	695	694	696	658	654	695	697	657	655	658	655	695	697	698	697	696	696	694
JMAH	U002	697	692	698	693	696	693	696	697	694	697	656	654	696	697	692	650	654	657	695	694	694	695	695	693	702
JMHE	U001	550	549	552	499	498	500	499	499	501	501	500	503	497	501	500	497	496	499	498	503	500	499	501	502	500
JMJG	U001	629	629	629	624	628	685	673	673	673	645	645	645	645	649	649	649	649	672	672	672	672	672	673	673	673
JMJG	U002	673	673	673	667	683	666	670	670	670	654	654	654	654	651	651	651	651	651	671	671	671	671	675	665	667
JMJG	U003	667	667	667	666	666	668	668	668	668	640	640	640	640	653	653	653	653	653	672	672	672	672	672	665	667
JMJG	U004	974	974	974	942	891	829	805	805	805	804	804	804	804	806	806	806	806	806	807	807	807	807	807	854	854
JMJG	U005	889	889	889	890	799	801	801	801	801	801	801	801	801	800	800	800	800	801	801	801	801	801	854	848	853
PKLG	U003	275	280	236	234	234	234	233	232	233	231	235	233	216	277	256	160	155	156	155	155	208	272	279	281	278
PKLG	U004	274	274	267	277	276	275	277	277	274	276	278	276	198	158	152	153	155	154	154	222	254	276	273	271	273
PKLG	U006	448	447	448	446	450	449	451	448	448	451	449	448	416	363	276	268	268	269	269	309	401	443	449	446	448
TBIN	U001	688	690	689	686	691	689	689	690	689	646	648	647	647	648	649	588	597	598	597	641	694	690	689	689	690
TBIN	U002	691	692	691	691	689	688	692	692	687	657	653	652	653	655	652	600	605	604	603	646	683	691	692	686	690
TBIN	U003	691	690	694	690	688	689	688	689	690	653	652	652	652	648	651	614	589	601	602	641	692	691	689	691	689
Total ST-Coal		8840	8839	8803	8703	8585	8564	8539	8536	8527	8352	8273	8263	8214	8188	8084	7746	7731	7749	7749	8062	8414	8555	8590	8580	8677
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	331	287	307	285	222	222	223	220	222	312	273	296	251	221	216	241	217	258	365	365	277	222	267	305	215
GLGR	GT01	94	94	96	94	95	95	95	94	96	95	94	96	95	96	94	95	94	95	96	94	95	95	97	95	95
GLGR	ST1C	42	41	41	40	41	40	40	40	39	41	41	40	41	41	40	41	40	41	41	41	41	40	41	41	41
NPRI	BLK1	503	492	503	502	505	497	467	460	432	396	380	395	447	488	410	379	432	416	328	352	322	503	526	482	462
NPRI	BLK2	505	468	493	485	515	498	469	466	413	398	381	396	448	489	410	380	410	431	333	357	325	504	531	440	449
PCGP	PGRG	589	576	592	584	599	602	599	596	590	603	601	604	592	602	589	551	448	606	598	603	593	602	610	591	595
PGLA	GT11	213	210	165	164	167	168	168	166	165	169	168	170	167	170	165	169	164	169	168	169	165	168	171	165	164
PGLA	GT12	217	213	170	167	172	173	171	171	169	175	172	173	169	173	169	173	170	173	173	173	170	172	175	169	170
PGLA	ST10	237	232	202	202	205	204	203	203	201	204	204	203	203	204	203	204	203	204	204	205	203	205	206	204	206
PLPS	GT11	127	124	127	125	130	130	130	126	126	130	130	130	127	130	127	130	126	130	130	130	127	130	134	128	127
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
PLPS	ST18	58	56	58	56	57	56	57	56	56	57	57	57	57	56	57	57	58	58	57	56	56	57	56	57	58
SKSP	BLK1	296	196	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	718	719	720	718	719	718	718	717	719	717	720	718	720	719	720	721	719	718	718	719	718	718	720	719	718
TJGS	GT1A	226	218	202	131	126	127	128	128	128	126	129	127	131	129	128	129	127	129	126	124	128	129	125	126	127
TJGS	GT1B	214	202	187	116	112	113	118	114	114	116	117	117	114	114	116	116	114	116	114	116	114	117	118	124	130
TJGS	ST1C	245	234	215	183	164	164	161	161	161	161	161	161	161	161	161	161	161	161	161	161	161	161	161	161	161
Total CCGT-Gas		4615	4362	4078	3852	3829	3807	3747	3718	3627	3698	3628	3684	3722	3794	3605	3548	3480	3704	3611	3668	3494	3821	3933	3798	3702
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	11	11
BSIA	HY02	22	22	22	22	22	23	23	23	23	23	23	23	23	11	11	11	23	23	23	23	23	11	11	11	11
BSIA	HY03	23	23	23	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	12	11
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	9
CEND	HY02	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	8	0	0	0	0	0	0	0	0	0
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	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	-1
HTRG	HY03	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

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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
KNRG	HY01	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
KNRG	HY02	20	19	20	21	22	22	21	21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
KNRG	HY03	20	20	20	21	21	21	21	21	22	22	21	21	22	21	22	21	22	21	22	22	22	22	22	22
KNYR	HY01	65	60	61	60	90	70	65	0	0	0	0	0	0	0	0	0	0	0	0	0	60	96	96	97
KNYR	HY02	98	94	94	95	96	96	57	58	55	-1	-1	-1	-1	-1	-1	-1	59	60	97	58	57	72	67	61
KNYR	HY03	97	95	95	95	96	97	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	HY04	69	55	59	57	89	65	58	58	56	61	61	61	60	59	59	60	59	61	61	85	58	80	64	58
LPIA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
LPIA	HY02	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
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	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	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	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	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	HY01	81	80	81	81	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY02	86	83	85	84	35	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY03	55	36	46	38	76	64	43	43	41	41	41	41	40	41	39	46	44	46	46	45	46	46	46	46
TMGR	HY04	82	79	82	80	33	-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	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		875	822	844	833	792	624	420	355	348	299	298	299	296	296	323	368	363	468	521	543	520	453	424	474
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
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	13	12	14	15	15	14	15	15	16	14	16	15	15	15	15	15	14	13	11	11	11	12	11	10
PCUF	CUFK	26	26	26	26	26	25	27	24	26	26	25	26	26	26	25	25	26	26	24	24	26	26	28	26

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 Co-Gen		39	38	40	41	41	39	42	39	42	40	41	41	40	39	41	41	41	40	40	40	40	39	35	35	37	38	39	36	38	36	38	40	40	40	41	41	42	40	40	43	42	46	49	48	51	52	49	50
Total Gen		14369	14061	13765	13429	13247	13034	12748	12648	12544	12389	12240	12287	12272	12317	12075	11736	11684	12082	12105	12554	12790	13247	13386	13252	13307	13155	13310	13531	13628	13683	13762	13725	13720	13808	13645	13407	13437	13482	14183	14948	14881	14969	14861	14763	14609	14462	14250	14037
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	31	30	30	30	30	30	30	30	30	30	30	29	29	30	31	31	31	31	30	30	31	31	29	31	31	29	29	29	29	29	29	29	29	29	31	29	31	32	29	29	30	30	30	30	30	30	30
TIE-PLTG		22	-12	6	15	-8	1	16	27	28	-31	-12	-19	-9	7	8	-11	27	-12	-10	-57	-33	-15	-2	-16	-14	-47	-78	-16	-13	-49	29	-26	30	-12	17	-31	9	-36	-11	-29	-36	-57	-33	-9	-52	-32	-37	-4
Interconnection		52	18	36	45	22	31	46	57	58	-1	18	11	20	36	39	20	58	19	20	-27	-2	16	27	16	17	-16	-50	13	15	-20	58	2	59	17	46	-2	40	-7	21	3	-6	-28	-3	22	-22	-2	-7	26
System Total		14317	14043	13729	13384	13225	13003	12702	12591	12486	12390	12222	12276	12252	12281	12036	11716	11626	12063	12085	12581	12792	13231	13359	13236	13290	13171	13360	13518	13613	13703	13704	13723	13661	13791	13599	13409	13397	13489	14162	14945	14887	14997	14864	14741	14631	14464	14257	14011
SRev ST-Coal		281	132	116	166	264	285	286	289	298	472	551	561	552	446	509	657	656	655	651	467	328	264	231	241	144	148	134	144	143	139	142	143	151	149	149	141	160	149	144	145	251	154	113	110	107	119	163	179
SRev CCGT-Gas		310	563	497	723	746	738	798	827	918	847	917	861	823	751	940	997	1065	841	934	877	1051	724	612	747	843	1016	917	669	553	436	358	303	315	272	457	536	492	615	285	144	264	220	206	210	190	208	200	322
SRev LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	-1	1	0	1	0	0	0	2	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	
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 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	
Syncon		626	626	626	626	626	800	988	988	988	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	988	988	901	814	814	814	814	814	814	965	814	814	627	627	627	901	901	901	627	126	0	0	126	313	626	626	727	727
Hydro		181	234	212	223	264	210	226	191	198	146	147	146	149	149	172	227	232	166	113	91	215	132	112	197	200	171	308	307	321	191	242	292	392	385	409	240	274	531	568	662	727	784	742	640	519	637	433	506
S.Reserve Total		1398	1555	1451	1738	1900	2033	2298	2295	2402	2554	2704	2657	2613	2435	2710	2970	3042	2751	2787	2524	2582	2108	1855	1999	2001	2148	2174	1934	1832	1731	1556	1552	1485	1435	1642	1818	1827	2196	1624	1077	1242	1158	1187	1273	1442	1590	1523	1734