

Daily System Generation Summary on Sunday

Sunday, October 31, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,372 MW
Distillate	0 MW
Total TNB	2,372 MW
Total IPP	16,178 MW
Total Co-Gen	0 MW
Total System	20,409 MW

Generation Mix

Type	MWh	Percentage
Hydro	19,792	6.00 %
Gas	33,620	10.20 %
Total TNB	53,412	16.20 %
ST-Coal	210,375	63.80 %
LSS	3,232	0.98 %
Gas	62,449	18.94 %
Total IPP	276,056	83.72 %
Co-Gen	1,174	0.36 %
Total Co-Gen	1,174	0.36 %
Total Generation	330,642	100.28 %
PLTG	204	0.06 %
HVDC	719	0.22 %
Interconnection	923	0.28 %
Net Energy	329,719	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	17,079 MW
TNB Generation	3,079 MW
IPP Generation	12,595 MW
Spinning Reserve	1,356 MW
Maximum Demand	15,794 MW
Net Energy	329,719 MWH
Load Factor	86.98 %

Fuel Cost

Total Cost:	69,594,624.33 RM
Cost per Unit	21.04 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	977
Hydro	217
Syncon	567
Thermal	274
Total	2,035

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	26

Gas Usage

Station	(mmcsfd)
GLGR	46
PGPS	1
TJGS	81
Total TNB	128
CBPS	42
KLPP	35
NPRI	65
PGLA	97
PLPS	37
SGB3	35
SGRI	1
Total IPP	312
Total Gas	440
Total Gas Required	440

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	14519	14006	13573	13198	12759	12504	12487	12118	11709	12343	13052	13520	13560	13501	13853	14144	14304	14061	13814	14804	15706	15619	15405	15077

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, November 3, 2021 1:22:47 PM
(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	U002	696	692	694	698	698	690	696	695	694	697	692	693	698	694	672	556	507	602	666	706	708	705	704	705	701	705	711	707	706	706	708	705	709	703	708	708	706	705	706	701	709	703	705	702	705	707	680	706		
JMHE	U001	974	901	899	903	903	850	852	849	850	850	850	848	851	848	852	848	849	849	847	853	852	849	851	853	854	849	850	849	880	882	881	882	904	900	898	901	902	899	899	901	901	945	970	968	983	967	971	967	966	970
JMHE	U002	980	901	899	904	896	852	849	849	848	851	848	852	848	849	849	847	853	852	849	851	853	854	849	850	849	880	882	881	882	904	900	897	902	901	900	902	900	901	966	983	979	985	982	980	980	979	976	977		
JMJG	U001	679	682	681	682	680	678	682	680	681	680	679	590	501	506	508	504	584	669	683	679	685	679	680	680	680	683	679	683	679	682	683	680	682	679	681	682	679	688	679	682	679	680	682	680	680	681	683	681		
JMJG	U002	679	673	681	681	678	679	676	678	675	677	678	677	678	671	674	687	677	677	677	680	678	674	676	679	675	674	671	673	671	675	671	674	683	678	678	678	679	681	677	679	677	677	679	678	678	682	674	681		
JMJG	U003	677	672	674	679	677	676	685	677	674	678	673	676	677	677	674	678	685	675	674	680	676	677	677	678	671	678	676	682	679	675	677	676	680	679	677	678	677	676	678	677	679	673	673	676	678	673	680	675		
JMJG	U005	889	890	891	891	891	848	849	848	852	851	851	850	850	852	851	849	852	850	854	854	854	852	852	851	854	892	892	889	892	892	887	892	892	891	889	892	892	894	894	892	891	890	887	892	891	890	892	892		
PKLG	U003	272	271	279	279	280	281	275	278	274	226	154	156	151	151	151	151	151	153	154	153	152	230	262	276	278	280	281	279	278	279	281	279	279	280	280	280	282	282	278	281	277	280	277	283	281	277	278	282	279	
PKLG	U004	275	278	278	278	278	276	280	279	274	204	161	154	156	154	153	156	155	153	150	153	152	226	272	277	278	276	276	278	274	278	277	276	275	276	277	276	277	276	277	275	272	266	275	277	277	275	276	274	275	276
TBIN	U001	697	699	700	696	696	697	698	696	698	629	597	600	599	597	579	499	449	502	500	567	693	701	698	698	699	695	700	698	698	697	698	698	699	702	694	699	699	699	697	698	698	696	696	701	696	696	697	697		
TBIN	U002	701	707	699	703	703	701	699	698	706	629	603	603	602	602	586	502	453	503	503	591	701	705	703	703	702	706	702	703	703	704	703	704	704	703	700	703	697	701	698	699	705	699	702	700	701	701	700	700		
TBIN	U003	698	703	699	698	700	700	700	699	701	652	603	603	603	603	589	502	454	504	500	603	699	698	700	699	699	700	697	697	699	698	698	700	697	698	698	699	700	698	697	699	700	697	700	697	701	697				
TBIN	U004	982	926	903	903	908	853	856	853	853	851	855	853	853	852	854	854	853	854	852	852	851	854	853	853	852	881	882	884	884	905	902	903	902	901	901	905	903	903	951	983	984	987	983	983	984	983	982	983		
Total ST-Coal		9199	8995	8977	8995	8988	8781	8797	8779	8780	8475	8244	8155	8067	8057	7996	7630	7528	7845	7914	8221	8555	8712	8773	8799	8790	8929	8929	8934	8923	8996	8985	8982	9005	8993	8982	9002	8991	9002	9142	9204	9223	9227	9213	9219	9213	9208	9188	9214		
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	297	349	278	218	221	226	218	224	217	218	224	220	285	268	216	222	220	217	224	222	225	229	222	221	222	222	223	223	226	217	224	226	226	232	218	222	225	223	230	370	362	368	365	369	358	367	361	365		
EMPP	BLK2	205	206	207	208	209	209	207	209	208	521	517	515	514	515	513	515	513	514	511	511	508	196	200	234	331	335	336	338	339	337	375	375	375	375	426	552	701	756	755	757	758	759	698	499	451	202	204	202		
GLGR	GT01	68	68	68	68	68	68	68	68	68	68	69	69	68	69	68	68	69	67	69	68	69	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68			
GLGR	GT02	67	67	67	68	67	67	67	67	67	67	67	67	68	67	68	67	68	67	67	67	66	67	67	68	67	67	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68			
GLGR	ST1C	71	71	71	71	71	71	71	71	72	71	72	71	72	71	72	72	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71		
KLPP	GT13	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
KLPP	GT15	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110			
KLPP	ST17	104	70	71	70	70	70	70	69	70	69	70	69	70	69	69	69	70	70	69	70	70	70	69	70	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	BLK2	523	535	529	460	335	334	335	334	326	331	339	337	400	394	329	328	335	335	335	333	340	355	335	350	336	337	337	336	344	335	339	336	409	496	345	337	335	340	385	525	520	529	526	524	498	521	516	522		
PCGP	PGRG	601	615	611	494	499	502	351	262	261	264	267	265	351	352	262	262	262	261	261	263	268	270	555	527	403	261	261	303	409	428	509	503	615	617	583	265	262	268	592	606	596	612	608	606	591	598	593	597		
PGLA	GT11	167	171	171	167	168	169	169	168	166	167	170	169	169	167	167	166	168	169	169	169	170	172	168	169	170	171	169	170	171	169	171	173	166	169	168	169	172	170	167	171	169	216	211	217	216	168				
PGLA	GT12	171	176	174	171	173	173	173	172	171	172	173	173	171	172	171	173	173	171	173	173	174	173	174	173	174	172	173	174	172	173	174	172	175	173	170	172	173	173	175	173	174	220	216	220	219	172				
PGLA	ST10	205	207	207	203	204	204	203	205	203	203	205	204	204	204	204	205	204	202	206	205	208	205	206	205	205	205	205	205	206	205	206	205	206	207	207	208	207	206	206	206	206	206	204	240	237	242	238	202		
PGPS	GT3B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	GT11	139	141	141	134	139	138	138	128	129	129	129	129	129	129	129	129	129	129	128	128	129	128	128	128	128	128	128	128	128	129	129	128	129	129	129	129	129	129	128	129										

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	
CEND	HY02	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
CEND	HY03	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
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	HY02	123	123	123	124	124	124	124	123	123	123	124	124	124	124	58	62	123	123	123	123	123	123	123	124	123
KNRG	HY01	35	36	36	35	35	35	35	35	35	35	36	36	35	35	35	35	36	35	36	36	36	36	24	24	
KNRG	HY02	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	23	22	
KNRG	HY03	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	23	21	22	
KNYR	HY01	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	
KNYR	HY02	99	99	99	98	99	99	99	99	98	97	99	99	99	99	98	97	99	99	100	100	100	98	98	99	
KNYR	HY03	89	93	93	88	90	90	90	90	88	87	92	90	90	90	88	88	91	89	98	95	97	94	95	92	
KNYR	HY04	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	0	0	0	0	0	0	95	98	98	
LPIA	HY01	21	21	21	21	21	20	18	18	18	18	18	18	16	16	16	18	20	20	20	22	23	23	18	18	
LPIA	HY02	21	21	21	21	20	20	20	20	19	18	18	18	17	17	17	20	20	20	20	21	21	21	17	17	
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	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0		
SIHY	HY01	31	31	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	48	31	
SIHY	HY02	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	50	31	
SIHY	HY03	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	50	31	
SYPS	HY01	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	
SYPS	HY02	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	16	
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	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	
TMGR	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	
TMGR	HY02	0	0	0	0	35	35	35	35	34	35	35	35	35	43	43	45	43	44	44	51	47	45	44	44	
TMGR	HY03	41	41	42	40	41	41	41	41	40	41	40	41	41	0	0	0	0	0	0	0	0	0	32	32	
TMGR	HY04	-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	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	97	91	
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	5	5	5	5	5	5	5	5	
UPIA	HY02	4	4	4	4	3	3	3	2	2	2	2	2	2	2	2	2	2	3	4	4	4	4	4	4	
Total Hydro		911	918	918	909	855	791	814	788	782	780	787	788	786	786	750	773	683	675	748	647	665	593	598	596	
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	2	4	5	10	17	10	17	25	24	27	17	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	13	15	13	16	17	25	30	24	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	20	21	26	22	28	24	30	29	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	25	9	32	17	13	33	16	19	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	13	15	20	23	25	16	10	11	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	12	18	23	29	35	38	46	28	37	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	16	17	28	30	42	15	40	20	48	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	11	15	18	33	19	38	39	32	22	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	16	21	23	26	22	27	30	28	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	12	21	24	26	39	33	36	37	50	47	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	1	14	52	13	16	15	22	35	40	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	8	14	16	15	25	35	31	16	16	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	13	18	20	24	17	20	26	12	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	13	21	13	30	30	28	30	28	26	30	

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 LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	73	141	225	309	333	343	354	412	376	380	396	451	425	415	363	364	330	292	215	142	82	25	0	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	23	24	23	24	24	24	25	23	23	24	24	25	25	24	25	26	25	24	24	24	22	20	21	20	21	19	22	20	21	21	22	21	20	21	20	22	20	23	22	22	24	23	23	23	25	23	23	23		
PCUF	CUFK	27	26	27	26	26	28	27	25	26	26	26	27	27	27	24	26	27	25	26	27	27	26	27	25	27	25	25	28	27	27	26	26	27	26	27	26	26	26	26	26	26	26	26	27	26	24	25	26		
Total Co-Gen		50	50	50	50	50	52	52	48	49	50	50	52	52	51	49	52	52	49	50	51	49	46	48	45	48	44	47	48	48	48	48	47	47	47	47	48	46	49	48	48	50	49	49	50	51	47	48	49		
Total Gen		14624	14398	14105	13784	13624	13358	13240	12868	12836	12717	12517	12419	12542	12499	12199	11894	11754	12125	12364	12647	13045	13212	13546	13647	13562	13503	13555	13824	13862	13970	14175	14174	14356	14422	14182	13906	13881	13867	14801	15614	15731	15723	15565	15575	15441	15315	15140	15010		
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	30	30	30	30	30	30	31	31	30	30	29	29	30	30	30	30	30	30	30	30	30	30	30	29	29	29	29	29	30	30	30	30	29	29	31	30	31	31	29	29	30	30	30	30	30			
TIE-PLTG		79	47	73	32	26	-9	16	20	49	24	-14	-27	29	63	53	52	18	-7	-6	2	-33	-99	0	37	-25	37	28	17	-16	-17	5	-15	26	39	95	21	41	-39	-30	-69	-1	-97	-81	-33	10	20	30	36	35	
Interconnection		109	77	103	62	55	21	46	51	80	54	16	3	58	93	84	82	48	23	24	32	-3	-69	30	67	5	67	57	46	13	13	35	15	55	69	124	50	71	-9	1	-38	28	-68	-51	-3	40	49	67	65		
System Total		14519	14325	14006	13726	13573	13341	13198	12820	12759	12666	12504	12419	12487	12409	12118	11815	11709	12105	12343	12619	13052	13285	13520	13583	13560	13439	13501	13782	13853	13961	14144	14162	14304	14356	14061	13860	13814	13880	14804	15655	15706	15794	15619	15582	15405	15270	15077	14949		
SRev ST-Coal		127	331	347	331	334	399	384	398	398	620	654	736	733	638	661	688	799	727	673	626	423	424	404	378	387	337	340	335	347	330	341	339	321	333	342	323	335	324	184	122	103	99	113	107	113	118	138	112		
SRev CCGT-Gas		810	541	676	1006	1105	1102	1259	1583	1611	1734	1704	1714	1501	1533	1734	1725	1720	1723	1711	1719	1688	1301	1050	1064	1203	1536	1530	1324	1194	1257	1183	1182	991	892	1112	1528	1625	1746	1001	543	507	513	482	274	352	380	409	444		
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		
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 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 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		699	699	699	699	699	699	548	699	699	699	699	699	699	699	699	548	699	699	699	699	699	699	699	699	699	699	699	699	699	699	699	699	699	699	548	699	699	699	699	425	338	338	338	338	187	151	338	525		
Hydro		181	174	174	183	174	163	291	167	173	175	168	167	169	169	119	247	186	194	121	121	103	175	170	173	173	243	108	107	100	111	104	104	102	110	239	101	105	110	84	218	381	411	376	332	484	385	327	210		
S.Reserve Total		1817	1745	1896	2219	2312	2363	2482	2847	2881	3228	3225	3316	3102	3039	3213	3208	3404	3343	3204	3165	2913	2599	2323	2314	2462	2664	2677	2465	2340	2397	2327	2324	2113	2034	2241	2651	2764	2879	1968	1308	1329	1361	1309	1051	1136	1034	1212	1291		