

Daily System Generation Summary on Sunday

Sunday, October 10, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,122 MW
Distillate	0 MW
Total TNB	2,122 MW
Total IPP	16,574 MW
Total Co-Gen	0 MW
Total System	22,202 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,731	3.97 %
Gas	42,007	12.14 %
Total TNB	55,738	16.11 %
ST-Coal	227,135	65.64 %
LSS	3,057	0.88 %
Gas	59,167	17.10 %
Total IPP	289,359	83.63 %
Co-Gen	1,251	0.36 %
Total Co-Gen	1,251	0.36 %
Total Generation	346,348	100.10 %
PLTG	1,034	0.30 %
HVDC	-702	-0.20 %
Interconnection	332	0.10 %
Net Energy	346,016	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	17,517 MW
TNB Generation	3,236 MW
IPP Generation	12,962 MW
Spinning Reserve	1,272 MW
Maximum Demand	16,255 MW
Net Energy	346,016 MWH
Load Factor	88.69 %

Fuel Cost

Total Cost:	75,149,763.98 RM
Cost per Unit	21.69 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	986
Hydro	187
Syncon	518
Thermal	332
Total	2,023

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	31
TJGS	161
Total TNB	192
CBPS	46
NPRI	139
PGLA	98
PLPS	39
SKSP	4
Total IPP	326
Total Gas	517
Total Gas Required	517

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	15856	15234	14558	14169	13816	13396	13296	12801	12292	12936	13660	13985	13996	14176	14593	14772	14730	14446	14223	15046	16165	16085	15903	15698

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, November 3, 2021 1:07:43 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	U001	698	703	693	692	691	693	694	694	693	693	694	691	691	691	640	641	688	694	692	691	692	691	694	693	695	691	692	692	692	693	692	690	695	692	691	692	694	693											
JMAH	U002	705	702	696	700	695	699	695	695	697	696	695	695	696	695	694	643	644	694	698	697	699	695	698	695	689	699	694	696	697	695	697	694	693	694	692	697	697	696	694	696	693	686	704	697	697	696	696	698	
JMHE	U001	978	981	981	981	909	901	844	777	781	780	782	774	779	777	778	779	781	781	779	780	849	847	901	901	897	900	901	901	900	940	944	941	939	941	939	940	940	940	987	978	977	980	981	978	980	981	978	979	
JMHE	U002	978	976	978	978	897	897	844	778	781	776	778	778	779	777	780	777	781	781	783	778	851	849	899	903	898	902	900	901	940	942	942	939	938	938	940	939	941	981	983	979	982	982	979	979	980	981	981		
JMJG	U001	675	673	673	675	680	678	674	678	678	671	677	677	679	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678	678		
JMJG	U002	673	673	673	677	669	674	672	673	673	671	674	676	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670		
JMJG	U003	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684		
JMJG	U005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PKLG	U003	282	283	283	284	283	279	280	283	282	284	282	281	277	278	280	252	224	206	205	245	269	274	277	276	278	280	276	279	278	280	278	277	275	277	277	278	279	277	281	276	278	279	275	278	278	280	280	280	
PKLG	U004	277	275	268	275	277	277	278	281	284	282	281	277	278	280	252	224	206	205	245	269	274	277	276	278	280	276	279	278	280	278	277	275	277	277	278	279	277	281	276	278	279	275	278	283	282				
PKLG	U006	445	444	446	443	442	444	444	444	444	442	445	443	444	444	446	446	445	443	442	442	441	443	443	442	443	444	443	442	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	447		
TBIN	U001	697	697	690	692	689	691	690	691	688	690	691	689	689	688	691	641	641	691	690	690	690	684	690	690	692	690	685	691	690	691	691	689	689	691	690	684	691	688	690	689	689	690	691	690	690	690	687		
TBIN	U002	700	701	692	692	694	694	694	687	688	694	694	693	692	693	692	646	644	693	692	693	693	694	692	691	694	692	693	692	693	696	694	694	692	694	692	694	693	693	692	695	693	692	693	691	693	694	693	693	
TBIN	U003	698	700	689	688	688	687	688	689	690	689	690	688	687	689	687	641	640	692	690	691	691	689	692	690	690	692	689	692	690	693	693	689	691	691	690	691	691	691	687	691	693	691	688	691	689	691	689		
TBIN	U004	982	984	982	982	958	903	834	803	803	802	801	801	803	803	801	802	803	804	803	804	803	804	851	853	902	901	904	901	903	904	902	942	941	944	942	943	942	942	941	944	983	981	983	983	983	982	982	987	
Total ST-Coal		9472	9476	9428	9443	9257	9199	9014	8857	8863	8855	8864	8854	8855	8850	8782	8394	8378	8653	8792	8845	9053	9038	9198	9194	9339	9355	9402	9534	9507	9718	9802	9821	9860	9886	9957	9925	9948	10037	10159	10168	10189	10225	10243	10258	10327	10334	10338	10331	
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			
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		
CBPS	BLK2	358	361	360	367	314	359	363	365	316	333	217	221	214	218	211	228	215	219	223	219	226	227	225	308	222	225	220	224	307	237	344	345	300	330	224	221	222	222	244	367	361	362	365	366	359	362	363	363	
GLGR	GT01	88	68	96	96	99	98	98	97	98	98	96	97	96	96	97	97	99	98	97	98	97	98	97	97	97	96	98	97	97	99	97	98	97	96	96	97	97	97	97	98	95	96	96	97	96	96	96	95	97
GLGR	GT02	87	68	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
GLGR	ST1C	90	72	75	39	40	40	39	39	39	39	40	39	38	39	40	39	39	40	40	40	40	39	40	40	40	40	40	40	40	40	41	41	39	39	39	39	38	39	39	39	39	39	39	39	39	39	39		
NPRI	BLK1	514	516	511	521	523	516	519	514	522	522	517	520	507	436	429	330	324	331	367	327	362	381	365	404	340	329	363	376	422	419	425	404	416	376	324	329	346	369	430	518	518	519	521	520	511	516	515	518	
NPRI	BLK2	517	515	494	523	525	503	499	515	523	412	336	336	324	326	320	336	328	334	368	332	363	384	369	404	357	334	364	377	425	421	430	405	415	377	329	332	346	370	431	521	524	523	526	524	504	521	523	524	
PCGP	PGRG	592	598	592	603	607	595	591	592	602	609	596	603	587	588	282	283	281	282	281	398	479	594	602	600	601	603	550	604	602	603	606	605	603	598	599	353	426	388	616	603	602	602	602	601	593	599	601	603	
PGLA	GT11	226	215	167	170	171	169	168	168	170	173	169	169	166	165	164	170	168	170	170	168	165	168	168	169	169	168	168	168	168	169	169	168	166	167	167	168	169	172	169	168	168	168	167	166	168	167	168		
PGLA	GT12	231	218	171	173	175	173	171	172	175	176	173	173	170	170	167	174	171	173	173	172	173	170	172	172	173	172	172	172	172	171	172	172	172	171	170	171	172	172	175	172	172	173	172	172	169	171	171	172	
PGLA	ST10	250	239	202	206	205	205	206	205	208	208	206	205	203	205	203	205	202	204	204	204	204	205	205	205	205	205	205	205	205	207	206	206	205	205	205	205	205	205	205	206	205	205	205	204	204	205	205		
PLPS	GT11	119	113	130	127	129	128	129	129	128	128	128	130	128	127	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	128	128	129	129	129	128	128	129	129	128	128	129				
PLPS	GT13	116	109	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	ST18	136	129	131	57	56	56	57	56	56	56	56	56	56	56	55	57	57	56	56	57	56	56	57	56	57	56	56	56	57	56	57	56	57	56	56	57	56	56	56	57	56	56	56	56	56	56	56		
SKSP	BLK1	300	218	218	223	129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	BLK2	724	725	721	663	685	681	678	678	679	677	677	676	677	677	676	649																																	

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	HY01	124	124	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125	125	125	125	125
KNRG	HY01	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	34	34	22	21
KNRG	HY02	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	35	35	23	23
KNRG	HY03	22	23	23	23	24	23	23	23	23	23	23	23	23	24	23	23	23	24	24	23	23	23	22	22
KNYR	HY01	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
KNYR	HY03	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
KNYR	HY04	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
LPIA	HY01	16	16	16	16	16	16	16	16	16	16	16	16	18	18	18	18	16	16	16	17	17	17	17	17
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	18	18	18	18	18	17	17	17	16	16	16	16	16
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	19	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1
PGAU	HY03	20	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	30	30	30	30	30
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	29	30
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25
TMGR	HY01	42	42	41	44	82	42	42	42	42	83	79	42	40	41	39	72	41	67	80	34	34	34	34	1
TMGR	HY02	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	35	35
TMGR	HY03	31	32	31	32	32	32	0	0	0	0	0	0	0	0	-1	-1	0	0	0	32	32	32	32	32
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	33	33	33	33	33	-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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	5	4	5	5	5	4	4	5	5	5	4	4	5	5	4	5	5	5	5	5	5	5	5	5
Total Hydro		730	603	541	482	541	479	447	448	448	490	484	447	445	468	442	482	450	478	490	446	447	446	466	447
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	5	9	13	15	18	23	24	22	27	27
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	8	14	13	20	29	21	16	18	17
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	7	11	17	20	12	20	26	25	22	31	31
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	1	1	6	31	26	14	34	44	35
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	7	9	14	21	32	38	21	17	16	19	14
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	6	6	7	11	7	7	6	3	10
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	8	10	24	26	35	29	19	18	32
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	4	7	11	14	34	35	36	50
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	8	14	22	25	33	18	24	39	34	24	44
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	16	21	26	30	29	30	30	20	30
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	5	12	14	23	36	36	20	14	22	50	49	18
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	6	7	8	18	20	30	51	19	52	12
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	8	14	20	24	31	29	40	43	37	30	39
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	6	9	13	14	6	20	15	10	7	22	29
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	10	6	9	13	19	30	30	30	30	11	25
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	29	92	124	181	246	290	356	358	384	381	422	411
PCUF	CUFG	23	23	22	22	21	22	22	23	22	23	24	23	23	22	21	22	23	22	23	22	23	21	22	22
PCUF	CUFK	25	26	28	27	28	30	31	32	32	31	29	31	31	33	34	33	30	32	33	31	31	30	33	31
Total Co-Gen		48	49	50	49	49	52	53	55	54	54	51	54	55	56	57	53	55	55	53	54	56	53	53	52

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		15909	15645	15237	14979	14555	14451	14225	13971	13829	13653	13429	13394	13335	13285	12841	12472	12298	12664	12943	13207	13618	13820	13970	14132	14057	14140	14154	14336	14503	14669	14827	14746	14793	14711	14468	14168	14224	14316	15037	16015	16179	16245	16085	16033	15881	15871	15676	15552
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		-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-30	-30	-29	-28	-29	-30	-31	-31	-29	-29	-30	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	
TIE-PLTG		85	50	36	46	30	46	89	91	46	93	66	77	72	120	72	29	38	27	39	45	-7	2	18	79	94	100	10	-37	-56	-38	88	93	95	19	54	-4	33	40	23	75	45	22	32	7	11	29	11	34
Interconnection		56	21	6	17	0	16	59	62	17	64	37	48	42	90	43	0	9	-1	10	15	-38	-29	-11	50	64	72	-19	-66	-86	-67	59	64	66	-11	25	-33	4	11	-6	46	17	-7	3	-22	-19	0	-19	4
System Total		15856	15627	15234	14965	14558	14438	14169	13913	13816	13593	13396	13349	13296	13198	12801	12475	12292	12668	12936	13196	13660	13853	13985	14085	13996	14071	14176	14406	14593	14740	14772	14685	14730	14725	14446	14204	14223	14308	15046	15972	16165	16255	16085	16058	15903	15874	15698	15552
SRev ST-Coal		138	134	161	146	330	386	397	389	391	390	384	390	395	399	461	777	777	502	446	403	392	397	387	392	442	431	484	452	479	369	334	315	326	350	329	411	388	299	227	218	197	211	198	143	154	147	143	145
SRev CCGT-Gas		347	489	788	675	797	599	574	674	776	991	1215	1206	1255	1324	1675	1721	1883	1852	1779	1590	1434	1289	1321	1161	1344	1386	1363	1298	1119	1186	1069	1120	1139	1202	1401	1634	1534	1526	1149	424	356	368	445	461	640	689	774	780
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	
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		612	612	612	612	461	612	612	612	612	612	612	612	612	461	699	699	699	699	699	525	525	525	374	525	525	525	525	525	525	525	525	612	461	612	612	699	787	699	699	525	525	374	525	612	612	612	612	
Hydro		386	196	258	192	284	195	141	139	139	97	103	141	143	271	145	105	137	109	97	96	95	96	227	96	130	104	98	144	145	145	144	146	278	199	200	200	114	166	243	296	217	324	275	239	283	253	215	166
S.Reserve Total		1483	1431	1819	1625	1872	1792	1724	1814	1918	2090	2314	2349	2405	2455	2980	3302	3496	3162	3021	2614	2446	2307	2309	2174	2441	2446	2470	2419	2268	2225	2072	2193	2204	2363	2542	2944	2823	2690	2318	1463	1295	1277	1443	1455	1689	1701	1744	1703