

Daily System Generation Summary on Sunday

Sunday, April 25, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,517 MW
Distillate	0 MW
Total TNB	2,517 MW
Total IPP	15,019 MW
Total Co-Gen	0 MW
Total System	21,515 MW

Generation Mix

Type	MWh	Percentage
Hydro	20,292	5.96 %
Gas	62,174	18.25 %
Total TNB	82,466	24.21 %
ST-Coal	201,836	59.24 %
LSS	3,518	1.03 %
Gas	52,162	15.31 %
Total IPP	257,516	75.59 %
Co-Gen	164	0.05 %
Total Co-Gen	164	0.05 %
Total Generation	340,146	99.84 %
PLTG	151	0.04 %
HVDC	-697	-0.20 %
Interconnection	-546	-0.16 %
Net Energy	340,692	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:	21:30:00 Hour
Total Set On Bus	17,434 MW
TNB Generation	4,644 MW
IPP Generation	11,532 MW
Spinning Reserve	1,251 MW
Maximum Demand	16,198 MW
Net Energy	340,692 MWH
Load Factor	87.64 %

Fuel Cost

Total Cost:	50,949,179.31 RM
Cost per Unit	14.98 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	407
Hydro	374
Syncon	367
Thermal	209
Total	1,357

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmcsfd)
GLGR	55
SRDG	1
TJGS	149
Total TNB	206
CBPS	54
NPRI	157
PLPS	60
SKSP	1
Total IPP	272
Total Gas	478
Total Gas Required	478

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	15170	14540	14079	13680	13323	13261	13001	12536	12023	12647	13279	13706	13810	14031	14437	14760	14831	14531	14390	14786	15735	16115	15975	15692

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, May 7, 2021 1:57:26 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	690	692	692	692	692	692	693	692	691	694	691	692	692	689	693	695	692	694	692	691	692	691	692	690	695	692	692	693	692	693	688	692	692	692	692	692	693	693										
JMAH	U002	694	696	692	695	691	692	699	692	694	695	694	696	693	698	695	695	695	691	701	697	696	694	693	696	695	694	695	695	695	695	696	696	696	696	695	699	694	694	694	696	693							
JMHE	U002	978	977	979	978	897	902	899	852	851	848	850	848	845	848	851	852	854	850	847	852	850	909	913	912	908	909	982	980	981	979	982	982	979	981	980	983	978	984	981	984	981	983	981	981	976	975	982	980
JMJG	U001	672	678	673	672	673	672	673	675	665	674	668	673	671	675	675	674	674	672	671	673	664	674	672	673	675	668	667	673	671	671	590	597	598	593	654	672	665	669	671	671	669	668	663	672	672	682	679	679
JMJG	U002	675	672	676	672	671	673	672	673	675	677	673	671	673	674	677	673	672	674	677	674	674	677	667	675	672	673	673	679	671	675	679	677	670	673	672	671	672	673	673	671	672	679	671	672	673	682	688	679
JMJG	U003	668	670	664	668	663	654	670	665	671	668	663	672	671	668	668	669	668	668	667	669	667	664	668	668	669	665	667	669	669	670	668	667	668	669	668	671	666	662	670	666	669	664	674	662	666	678	678	681
JMJG	U004	0	0	0	0	0	0	0	0	0	0	0	0	108	100	100	102	320	322	346	389	485	482	480	487	486	494	507	507	569	595	624	652	648	659	654	612	522	447	351	313	320	318	321	310	0	0	0	
PKLG	U003	275	275	276	275	274	276	275	274	277	275	275	277	278	278	278	279	278	277	278	276	278	276	276	275	276	275	270	269	270	271	270	270	270	270	273	275	274	275	276	275	274	275	275	276	278			
PKLG	U004	276	278	274	274	277	279	274	278	277	276	280	277	277	277	278	277	282	279	280	279	280	282	278	277	274	272	273	273	282	283	277	279	278	277	283	280	278	278	277	280	279	279	273	280	281	274	277	
PKLG	U006	448	399	448	447	449	445	446	445	446	443	448	446	445	446	449	449	450	450	451	446	445	445	448	448	446	454	445	445	446	446	447	450	451	449	449	450	450	449	448	450	445	449	448	446	448	446	450	
TBIN	U001	683	690	690	689	690	689	688	687	690	690	687	690	691	691	690	692	695	689	689	691	688	690	689	690	691	690	692	690	688	688	690	689	691	689	690	686	690	686	690	689	693	689	691	689	690	689		
TBIN	U002	351	351	352	352	349	352	349	354	353	353	348	352	351	348	349	355	353	352	350	351	352	354	353	349	352	351	347	397	581	710	698	689	686	692	693	690	691	689	687	691	693	687	692	690	690	691		
TBIN	U003	690	695	691	687	690	686	688	690	693	686	691	688	691	678	690	692	707	690	687	691	693	692	697	692	691	689	690	693	691	690	691	690	691	699	693	687	690	693	692	690	692	693	687	692	689	693	692	691
TBIN	U004	983	983	982	984	949	903	904	855	853	853	852	851	852	853	853	851	853	853	852	855	881	911	912	913	912	912	929	984	983	982	982	983	983	983	982	983	983	984	982	984	983	983	984	983	984	983	982	
Total ST-Coal		8083	8056	8089	8085	7965	7915	7930	7832	7836	7832	7820	7833	7832	7934	7946	7951	7974	8156	8165	8191	8223	8412	8440	8443	8440	8433	8504	8591	8827	9022	8957	8977	9006	9013	9082	9089	9034	8955	8886	8783	8757	8749	8756	8746	8737	8463	8467	8463
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	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	354	360	364	357	362	364	362	359	359	366	362	362	362	348	330	322	228	227	303	366	367	361	360	361	362	359	364	363	361	362	365	364	361	362	359	366	361	362	359	360	359	361	361	363	363	356	356	356
EMPP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	182	182	183	186	181	183	260	682	728	737	
EMPP	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87	188	187	188	188	284	376	376		
GLGR	GT01	103	103	105	104	105	105	104	104	105	105	104	104	102	67	69	68	67	68	68	69	104	105	105	104	103	103	104	103	103	104	105	105	103	105	105	104	103	104	105	106	103	105	104	104	78	67	66	
GLGR	GT02	103	103	103	104	104	103	103	103	104	103	103	104	100	67	67	67	67	67	67	69	103	103	104	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	104	103	103	75	67	67
GLGR	ST1C	93	93	93	93	93	94	93	93	94	93	93	93	93	73	72	72	72	72	72	72	93	94	94	94	94	94	93	93	94	94	94	94	94	94	94	94	94	94	94	94	94	93	94	93	82	72	72	
NPRI	BLK1	518	521	530	525	530	529	530	528	529	538	530	530	522	515	515	453	407	515	517	517	521	516	518	518	517	521	520	522	520	523	527	521	521	521	521	529	521	515	523	523	521	521	520	526	519	506	517	514
NPRI	BLK2	504	502	527	517	528	529	529	523	527	533	527	527	519	490	449	438	382	345	411	524	528	523	524	523	520	523	523	523	524	524	524	524	524	523	529	525	517	526	525	523	524	525	529	520	509	520	516	
PCGP	PGRG	494	495	452	401	400	401	402	402	402	406	402	403	402	401	402	273	277	401	401	404	402	402	401	401	401	403	405	266	272	283	269	268	272	268	282	268	266	269	269	265	402	401	358	352	264	266	266	
PLPS	GT11	125	129	133	126	128	124	129	128	129	128	129	128	128	129	129	129	129	129	129	129	129	129	129	129	141	141	140	140	140	140	141	140	140	141	138	140	141	144	130	131	138	140	141	135	113	112		
PLPS	GT12	130	134	137	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	136	136	143	145	147	145	138	116	0	
PLPS	GT13	122	126	129	121	124	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	141	140	127	128	134	137	138	136	132	108	109	
PLPS	ST18	207	206	208	202	136	122	58	58	57	57	57	57	57	56	56	56	56	56	57	57	57	57	57	57	57	58	58	58	58	58	57	58	59	58	58	57	145	147	207	210	212	213	213	212	210	194	146	
SKSP	BLK1	337	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	BLK1	718	718	718	719	718	720	720	718	718	719	720	720	550	647	718	717	717	717	717	720	717	718	719	719	716	711	709	598	499	498	598	597	599	599	599	597	599	597	600	599								

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	HY03	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
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	HY01	124	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
HTRG	HY02	63	63	63	63	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNRG	HY01	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY02	37	37	38	38	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY03	36	36	37	37	37	38	38	38	38	38	38	38	38	38	38	37	37	37	36	36	36	36	36	36
KNYR	HY01	98	98	98	98	98	99	100	97	56	101	101	59	59	54	0	61	60	61	65	67	67	65	72	63
KNYR	HY02	57	58	58	58	58	59	60	57	56	101	100	59	59	54	54	96	0	0	0	0	0	0	0	0
KNYR	HY03	99	99	99	99	99	100	101	-1	-1	-1	102	60	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	HY04	58	58	58	59	59	59	61	57	57	103	101	59	60	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LPIA	HY01	15	15	15	15	15	15	15	15	13	13	13	13	13	13	13	15	15	15	15	15	15	15	15	15
LPIA	HY02	14	14	14	14	14	14	14	14	13	13	13	13	13	13	13	13	13	13	15	15	15	15	15	15
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	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
PGAU	HY03	20	21	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	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY02	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY03	30	30	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY01	17	17	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	HY01	40	40	86	42	86	86	83	76	43	86	43	42	43	38	38	74	71	44	47	86	86	48	86	42
TMGR	HY02	32	33	34	34	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY03	30	31	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY04	30	31	33	33	33	33	33	33	33	86	31	31	27	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY01	83	-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	90	-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	5	5	4	4	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Total Hydro		1154	1014	756	676	722	590	601	461	388	565	673	451	391	311	249	329	270	243	238	282	336	408	444	477
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

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																									
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	7	12	15	31	33	20	40	39	40	40	40	21	43	10	38	30	15	20	19	3	1	0	2	0	0	0	0	0	0	0	0		
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	12	16	20	21	8	15	24	12	13	20	14	15	26	21	21	17	1	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	1	3	5	7	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	4	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	16	71	139	213	262	371	423	386	458	422	442	456	462	451	483	441	417	380	273	200	144	88	36	9	2	0	0	0	0	0	0	0	0	0		
PCUF	CUFG	3	3	4	4	4	2	2	3	4	3	5	4	4	5	2	3	2	3	4	5	4	4	3	4	4	2	5	5	3	5	3	3	5	4	3	4	4	2	4	4	4	4	3	3	4	4			
PCUF	CUFK	4	3	3	3	5	3	2	3	4	3	4	2	3	3	2	3	3	2	3	3	3	4	6	5	3	4	4	4	2	3	4	3	4	4	3	1	3	4	5	2	4	3	2	2	3	4			
Total Co-Gen		7	6	7	7	9	7	5	4	6	8	6	9	6	7	8	5	6	4	6	7	8	7	10	9	6	8	7	6	9	9	5	8	7	6	7	7	8	5	6	8	9	4	8	7	6	5	6	8	
Total Gen		15132	14689	14436	14228	14009	13743	13651	13405	13267	13258	13212	13060	12979	12949	12523	11931	11907	12368	12587	12886	13261	13654	13684	13795	13819	13789	13950	14316	14423	14789	14724	14899	14921	14801	14615	14542	14406	14521	14743	15128	15702	16057	16111	16183	15970	15920	15655	15500	
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			
TIE-HVDC		-30	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-30	-29	-28	-28	-30	-30	-29	-29	-28	-28	-29	-29	-29	-29		
TIE-PLTG		-5	-34	-71	-17	-38	-70	3	-12	-23	-74	-16	-28	10	38	18	-93	-84	74	-27	-3	14	-1	10	7	41	-47	-49	36	18	14	-4	70	123	44	116	72	49	48	-11	-10	4	72	32	20	30	24	-2	36	
Interconnection		-35	-64	-101	-46	-67	-99	-26	-41	-52	-103	-45	-57	-19	10	-10	-122	-113	44	-57	-32	-15	-30	-19	-23	12	-75	-78	6	-11	-15	-33	40	93	15	87	42	20	19	-39	-41	-26	43	3	-8	2	-5	-30	7	
System Total		15170	14756	14540	14277	14079	13845	13680	13450	13323	13365	13261	13120	13001	12942	12536	12056	12023	12327	12647	12921	13279	13687	13706	13821	13810	13867	14031	14313	14437	14807	14760	14862	14831	14789	14531	14504	14390	14506	14786	15176	15735	16021	16115	16198	15975	15932	15692	15500	
SRev ST-Coal		148	173	142	146	263	316	300	304	299	302	313	298	295	398	390	384	365	303	316	295	313	300	291	288	291	298	227	240	204	159	134	164	185	178	199	192	247	326	195	298	224	152	155	165	174	118	114	118	
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 CCGT-Gas		320	595	274	398	402	410	383	390	461	645	431	377	394	447	824	1292	1131	891	752	573	394	313	313	309	316	313	294	303	450	550	627	642	550	546	544	550	856	719	679	469	474	321	302	342	369	648	926	841	
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	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		302	489	802	889	889	1015	1015	1116	1116	1015	1015	1116	1217	1153	1153	1304	1304	1304	1304	1203	728	728	641	554	554	428	302	676	676	338	338	489	338	525	676	676	777	777	777	151	0	0	0	0	151	676	676		
Hydro		811	764	344	337	291	170	183	197	270	93	86	309	268	247	273	193	101	128	122	78	125	156	120	174	188	236	304	338	310	71	286	295	205	390	288	154	243	412	453	167	425	615	735	740	957	641	376	171	
S.Reserve Total		1581	2021	1562	1770	1845	1911	1881	2007	2146	2156	1845	1999	2073	2309	2640	3022	2901	2626	2494	2250	2035	1497	1452	1412	1349	1401	1253	1183	1640	1456	1385	1439	1429	1452	1556	1572	2022	2234	2104	1711	1274	1088	1192	1248	1537	1558	2092	1806	