

Daily System Generation Summary on Sunday

Sunday, July 31, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,462 MW
Distillate	0 MW
Total TNB	2,462 MW
Total IPP	19,986 MW
Total Co-Gen	0 MW
Total System	26,089 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,907	5.71 %
Gas	31,856	9.62 %
Total TNB	50,763	15.33 %
ST-Coal	205,333	62.00 %
LSS	4,722	1.43 %
Gas	70,249	21.21 %
Total IPP	280,304	84.64 %
Co-Gen	659	0.20 %
Total Co-Gen	659	0.20 %
Total Generation	331,726	100.17 %
PLTG	2,618	0.79 %
HVDC	-2,051	-0.62 %
Interconnection	567	0.17 %
Net Energy	331,159	100.00 %

Maximum Demand Record

Date: 5/24/2022	19,183 MW
Date: 5/24/2022	398,523 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:30:00 Hour
Total Set On Bus	18,143 MW
TNB Generation	2,595 MW
IPP Generation	13,107 MW
Spinning Reserve	2,413 MW
Maximum Demand	15,717 MW
Net Energy	331,159 MWH
Load Factor	87.79 %

Fuel Cost

Total Cost:	13,054,169.40 RM
Cost per Unit	34.08 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,829
Hydro	173
Syncon	838
Thermal	558
Total	3,398

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	45
Total TNB	75
CBPS	36
EMPP	188
NPRI	133
PCGP	66
PGLA	44
SPGP	151
Total IPP	617
Total Gas	691

Total Gas Required 691

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	15033	14343	13757	13265	13008	12660	12539	12360	11847	12397	13019	13507	13595	13614	13846	14112	14250	14046	13680	14032	15525	15687	15402	15188

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, August 8, 2022 4:26:10 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	705	707	706	705	517	384	235	216	215	216	215	214	215	215	214	214	213	213	213	213	214	213	213	214	215	214	213	213	214	215	216	215	213	214															
JMAH	U002	706	705	707	706	704	707	700	707	705	708	708	706	703	705	702	707	705	705	705	706	705	704	707	708	704	706	706	703	706	705	707	703	705	707	706	702	706	701	707										
JMHE	U001	980	980	979	977	843	850	849	854	851	850	850	853	847	853	801	801	801	799	800	795	800	802	851	849	850	848	853	849	852	844	901	899	898	899	902	899	900	897	901	977	979	978	981	975	982	981	979	982	
JMHE	U002	978	981	980	977	843	850	853	849	849	849	851	849	846	851	788	803	802	799	801	793	799	800	851	851	851	850	850	852	852	845	903	897	901	897	901	899	900	897	902	978	977	979	980	975	979	982	977	980	
JMJG	U001	313	277	249	245	240	239	241	238	242	240	243	241	238	243	243	238	242	241	240	251	237	240	305	347	377	380	377	380	386	413	447	506	590	676	673	668	671	671	673	669	670	671	667	672	670				
JMJG	U002	667	671	667	671	668	668	669	668	671	668	670	667	671	668	669	668	671	671	661	669	667	671	666	671	671	667	671	675	667	667	668	667	670	669	668	670	672	668	671	666	668	671	669	667	673	666	668	666	
JMJG	U003	669	667	671	668	668	669	671	671	668	667	668	671	665	670	668	668	671	668	665	668	667	667	668	671	669	665	671	667	668	666	667	672	670	667	671	667	669	671	665	664	663	669	671	667	671	664	668	668	
JMJG	U004	974	974	972	972	946	887	854	853	853	856	853	857	852	854	804	806	806	805	804	801	801	804	826	852	853	854	854	853	851	852	901	906	903	903	906	903	905	901	903	948	973	977	977	977	976	977	976		
JMJG	U005	0	0	0	0	0	0	61	139	148	148	156	166	200	220	228	253	302	339	410	431	428	533	576	703	701	702	702	700	752	749	788	906	900	905	899	898	906	902	900	957	979	985	978	977	977	981	977	980	
PKLG	U003	148	149	149	149	149	150	150	148	150	148	150	150	148	149	149	149	152	149	150	148	149	150	148	147	148	150	151	149	149	150	149	149	150	147	149	150	151	149	151	149	148	148	148	148	149	153	149	151	
PKLG	U004	169	149	151	156	154	154	151	152	148	153	156	158	153	0	0	0	0	0	0	0	0	0	0	0	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	U005	269	269	268	267	268	269	272	269	267	272	269	268	269	269	269	266	269	269	268	269	269	268	269	267	268	269	268	269	268	269	268	268	267	269	268	270	269	268	271	267	269	270	269	267	269	269	269		
TBIN	U001	697	696	696	694	698	697	695	696	697	691	695	697	698	697	697	698	696	696	697	693	697	698	697	696	697	700	695	698	695	696	699	699	698	694	697	696	696	698	696	694	696	696	697	696	699	696	696	695	
TBIN	U002	700	696	713	703	697	701	693	701	703	695	701	701	696	702	699	702	706	697	705	702	696	702	703	702	702	698	703	700	700	702	699	700	702	699	701	701	705	701	702	699	701	705	700	708	703	701	702	699	
TBIN	U003	210	211	211	209	212	213	212	212	213	212	211	212	211	211	213	212	210	212	211	211	211	210	213	212	210	210	211	211	212	212	212	211	212	212	211	211	211	211	211	211	211	212	213	217	212	215	205	210	
TBIN	U004	0	0	0	0	0	0	0	0	0	42	106	167	182	203	288	409	514	593	739	847	852	851	853	852	853	854	853	852	903	899	902	905	903	904	904	905	906	943	942	941	943	941	943	941	943	942	942	942	944
Total ST-Coal		8185	8132	8119	8099	7607	7438	7306	7373	7381	7372	7397	7453	7522	7627	7327	7388	7536	7675	7843	7939	8087	8310	8486	8627	8633	8690	8747	8771	8818	8797	9056	9181	9209	9229	9302	9377	9480	9464	9464	9745	9795	9820	9816	9809	9823	9812	9795	9811	
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	0
CBPS	BLK2	363	301	200	188	201	202	201	201	198	196	198	197	198	199	201	202	202	201	201	199	199	201	201	200	198	194	199	200	201	195	201	199	205	201	201	201	198	198	201	196	197	201	195	197	193	206	198	201	
EMPP	BLK1	712	710	709	664	709	709	710	709	703	689	693	689	705	711	711	639	477	479	522	599	605	606	501	500	459	427	410	530	542	683	558	611	710	694	638	476	409	510	609	708	696	704	688	708	684	716	692	708	
EMPP	BLK2	712	711	708	691	709	710	710	709	708	705	706	704	712	711	642	476	483	524	600	615	605	501	505	470	443	417	530	545	686	562	612	707	693	639	480	408	509	606	710	703	708	689	699	716	707	710			
GLGR	GT02	108	108	108	108	99	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94			
GLGR	ST1C	47	47	47	47	44	41	41	41	41	41	40	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41			
NPRI	BLK1	518	516	513	498	515	516	515	514	512	510	511	509	512	514	515	319	319	320	321	315	316	320	319	318	316	311	317	320	320	312	320	318	325	321	320	321	317	316	320	509	511	515	509	508	505	521	512	513	
NPRI	BLK2	526	527	523	433	500	524	521	490	400	394	343	330	394	334	406	335	335	335	335	331	332	335	335	332	330	326	332	335	335	325	335	334	340	335	335	335	333	331	335	409	520	524	518	519	509	531	518	523	
PCGP	PGRG	608	602	598	564	597	501	401	400	395	397	398	397	398	399	401	402	402	401	397	394	401	399	395	391	390	396	400	403	386	402	396	408	401	402	400	393	397	402	396	395	400	396	394	394	411	394	402		
PGLA	GT12	143	145	144	144	144	144	144	145	144	144	144	145	144	144	145	145	145	145	144	145	144	144	144	143	144	143	143	144	143	144	144	143	144	144	144	144	144	144	144	144	144	144	144	144	144	144			
PGLA	ST10	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86		
SPGP	BLK1	719	719	719	718	720	720	720	651	649	550	500	451	362	363	363	362	364	402	402	403	400	401	400	401	402	400	402	402	401	399	400	401	402	402	401	401	362	387	402	402	501	500	500	503	501	452	451	362	
SPGP	BLK2	650	649	649	715	714	713	706	649	651	551	499	452	361	362	362	363	363	402	401	401	398	398	399	400	401	399	399	399	399	399	399	401	400	399	399	399	360	402	401	436	501	501	500	501	502	452	450	360	
TJGS	GT2A	130	122	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	
KNRG	HY02	37	37	37	37	37	37	37	37	37	37	23	23	23	23	23	37	37	37	37	37	37	37	37	37	
KNRG	HY03	36	36	36	36	36	36	36	36	36	36	22	22	22	22	22	36	36	36	36	35	35	36	35	35	
KNYR	HY01	101	100	101	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
KNYR	HY02	0	0	0	0	0	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
KNYR	HY03	105	105	105	105	105	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	
KNYR	HY04	102	100	101	100	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	
LPIA	HY01	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	
LPIA	HY02	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
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	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	
PGAU	HY02	22	0	0	0	0	0	0	0	0	0	0	0	20	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	
SIHY	HY02	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	50	50	50	
SIHY	HY03	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	50	50	50	
SYPS	HY01	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY03	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	
SYPS	HY04	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TMGR	HY01	84	52	43	38	85	55	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	78	84	84	84	
TMGR	HY02	87	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	86	86	86	86	
TMGR	HY03	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	82	84	82	
TMGR	HY04	83	51	42	38	85	53	80	83	42	47	57	43	84	61	41	42	42	53	53	42	77	85	81	81	
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	93	-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	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		1181	941	907	894	856	897	867	827	787	791	802	737	799	756	755	674	675	715	652	640	675	714	690	691	689
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	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	
KDLS	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	
KMLS	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	
KNLS	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	
MNLS	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	
PKLS	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	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	
PCUF	CUFG	26	26	25	25	25	26	25	25	25	25	24	23	23	24	24	24	23	25	23	28	29	23	22	22	22	22	22	22	22	21	22	21	23	23	24	23	24	24	24	24	25	24	24	25				
PCUF	CUFK	9	-1	-3	3	2	4	3	3	4	4	4	4	4	5	6	4	3	3	4	4	4	4	4	3	4	4	4	2	4	3	5	3	3	4	3	5	4	3	5	3	4	4	4	3	5	5	5	4
Total Co-Gen		35	25	22	28	27	30	28	28	29	29	28	27	27	29	30	28	26	28	27	32	33	27	25	26	26	26	24	26	25	27	25	25	25	25	26	27	26	29	26	28	28	28	27	30	29	29	29	
Total Gen		15042	14632	14339	14126	13774	13571	13296	13163	13024	12794	12684	12556	12594	12615	12392	11968	11844	12183	12437	12739	13041	13390	13507	13658	13585	13490	13615	13853	13866	14079	14111	14268	14385	14237	14153	13906	13703	13841	14013	15119	15527	15730	15735	15703	15439	15364	15220	14912
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		-96	-96	-98	-49	-49	-49	-48	-48	-48	-48	-49	-49	-48	-49	-97	-97	-97	-97	-97	-98	-99	-99	-99	-98	-98	-97	-100	-99	-99	-98	-98	-99	-97	-97	-96	-97	-98	-97	-99	-97	-96	-99	-100	-98	-97	-97		
TIE-PLTG		105	101	95	107	66	42	79	61	64	85	73	84	103	88	81	115	93	132	137	118	121	72	100	91	88	72	98	136	119	124	97	138	233	199	204	131	119	112	79	112	101	111	143	152	136	78	128	112
Interconnection		9	5	-4	59	17	-7	31	13	16	37	24	36	55	40	32	18	-3	35	40	21	22	-27	0	-8	-10	-26	1	36	20	26	-1	39	135	100	107	33	23	15	-19	15	2	13	48	53	37	-20	32	15
System Total		15033	14627	14343	14067	13757	13578	13265	13150	13008	12757	12660	12520	12539	12575	12360	11950	11847	12148	12397	12718	13019	13417	13507	13666	13595	13516	13614	13817	13846	14053	14112	14229	14250	14137	14046	13873	13680	13826	14032	15104	15525	15717	15687	15650	15402	15384	15188	14897
SRev ST-Coal		310	345	360	379	647	677	780	602	589	758	731	734	796	764	732	705	695	670	709	678	686	677	664	653	649	692	639	662	615	673	576	600	675	749	679	701	696	706	711	434	385	358	364	377	360	373	378	370
SRev CCGT-Gas		492	507	488	674	565	643	754	914	1022	1247	1392	1510	1603	1644	1568	1975	2299	2215	2132	1994	1978	1971	2183	2186	2273	2348	2367	2123	2091	1854	2063	1966	1740	1792	1904	2225	2458	2188	1963	1475	1211	1184	1228	1201	1251	1233	1316	1459
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	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		525	374	525	525	525	525	701	701	701	701	701	701	550	701	701	852	852	852	978	978	978	827	978	978	978	978	827	827	978	978	978	827	978	978	978	827	978	978	978	802	525	676	489	676	739	890	890	978
Hydro		228	295	178	191	54	113	54	46	86	82	71	136	225	117	268	198	197	146	83	95	60	172	45	44	46	86	214	209	137	139	138	257	136	134	134	261	138	130	137	77	261	195	326	190	358	288	332	213
S.Reserve Total		1555	1523	1557	1769	1791	1958	2289	2263	2398	2788	2895	3081	3174	3226	3269	3730	4043	3883	3902	3745	3702	3647	3870	3861	3946	4104	4047	3821	3821	3644	3755	3650	3529	3653	3695	4014	4270	4002	3789	2788	2382	2413	2407	2444	2708	2784	2916	3020