

Daily System Generation Summary on Friday

Friday, August 18, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,163 MW
Distillate	0 MW
Total TNB	2,163 MW
Total IPP	18,512 MW
Total Co-Gen	0 MW
Total System	24,677 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,472	4.08 %
Gas	51,786	13.65 %
Total TNB	67,258	17.73 %
ST-Coal	227,834	60.06 %
LSS	4,704	1.24 %
Gas	78,494	20.69 %
Total IPP	311,032	81.99 %
Co-Gen	333	0.09 %
Total Co-Gen	333	0.09 %
Total Generation	378,623	99.81 %
PLTG	-26	-0.01 %
HVDC	-696	-0.18 %
Interconnection	-722	-0.19 %
Net Energy	379,345	100.00 %

Maximum Demand Record

Date: 5/11/2023	19,716 MW
Date: 5/11/2023	416,902 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	18,899 MW
TNB Generation	3,062 MW
IPP Generation	14,414 MW
Spinning Reserve	1,447 MW
Maximum Demand	17,504 MW
Net Energy	379,345 MWH
Load Factor	90.30 %

Fuel Cost

Total Cost:	80,853,880.50 RM
Cost per Unit	21.31 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	929
Hydro	257
Syncon	638
Thermal	252
Total	2,076

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Cloudy	28

Gas Usage

Station	(mmscfd)
GLGR	51
TJGS	87
Total TNB	138
CBPS	6
EMPP	284
NPRI	123
PCGP	88
SPGP	209
Total IPP	709
Total Gas	847
Total Gas Required	847

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	15854	15114	14542	14025	13696	13482	13653	13730	14114	15554	16344	16767	16514	16258	16434	17207	17418	17311	16338	16300	17460	17351	16857	16565

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, August 29, 2023 12:03:26 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

Daily MW Generation on Friday

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	590	504	426	343	216	214	214	215	214	212	213	214	214	214	334	596	697	696	697	698	696	696	696	696	696	696	696	696	697	697	695	696	695	697	693	695	696	696											
JMAH	U002	589	505	400	310	214	215	212	214	214	212	213	215	213	211	213	214	332	590	695	695	695	696	694	695	697	697	694	694	696	696	694	695	692	696	693	689	701	695	696	694	694	694							
JMHE	U001	968	972	970	970	852	849	846	851	852	846	848	851	850	844	850	851	927	976	971	974	973	969	971	972	972	973	975	975	972	974	971	972	972	973	969	973	974	972	976	970	974	971	972	969	975	972	972		
JMHE	U002	969	974	971	972	853	847	850	850	851	850	848	850	849	845	848	849	851	939	973	976	974	976	975	974	975	980	980	979	976	976	974	976	977	976	976	972	976	975	980	977	977	980	976	976	973	977	977	977	
JMJG	U001	685	672	687	669	689	678	678	678	679	673	673	671	679	675	684	668	667	672	676	673	679	679	678	673	682	671	673	677	676	679	673	641	577	549	546	552	551	546	552	554	543	537	557	555	535	542	546	546	
JMJG	U002	673	680	679	675	672	676	676	678	672	677	679	673	673	673	673	673	677	678	672	677	677	672	662	673	670	673	675	681	676	679	676	676	677	676	676	677	683	674	673	669	673	673	675	673	679	673	676	674	
JMJG	U003	671	665	662	665	668	663	671	667	663	662	668	660	671	666	665	667	666	667	668	666	666	666	666	662	672	668	668	658	677	668	665	669	672	662	670	657	668	673	669	668	668	672	663	667	663	673	664	666	662
JMJG	U004	982	982	983	980	930	906	906	906	908	906	906	901	904	905	908	904	945	980	983	982	978	979	980	978	979	983	985	981	983	980	979	980	983	980	982	981	979	983	977	981	979	983	983	981	979	985			
PKLG	U003	161	159	158	149	149	150	151	149	151	151	149	151	148	150	150	151	150	149	165	260	279	286	282	279	280	278	278	279	277	275	277	276	277	278	278	278	275	280	278	278	279	278	277	279	280	280	279	278	
PKLG	U004	143	147	148	150	149	148	150	146	145	148	150	150	150	149	149	151	150	149	145	234	272	282	277	274	273	276	279	276	278	278	272	277	272	278	274	272	272	277	274	274	268	276	270	276	273	274	277		
PKLG	U005	245	245	245	252	252	249	245	246	249	245	245	245	245	245	245	245	291	283	342	440	441	441	441	441	441	441	441	441	441	441	441	441	441	441	434	441	441	441	441	435	441	441	441	441	377	398	461		
TBIN	U001	691	601	601	601	601	600	499	499	399	398	400	393	301	313	398	397	573	684	684	692	693	689	687	691	689	691	686	688	692	689	689	689	690	691	692	690	694	690	690	689	688	687	690	690	690	693	688	692	
TBIN	U002	688	601	600	603	602	598	500	502	396	400	400	401	301	317	402	401	513	691	687	691	691	688	688	684	689	689	690	690	688	691	690	670	689	689	688	689	689	688	689	688	689	688	690	688	688	689	688	687	
TBIN	U003	685	599	597	598	598	597	504	500	441	399	399	392	297	311	402	400	489	687	686	687	688	687	688	687	688	689	685	686	687	687	687	687	688	688	689	687	686	686	687	689	687	688	688	688	688	691	684	688	688
TBIN	U004	979	982	975	983	911	851	853	853	853	853	853	854	853	853	852	853	852	850	916	982	983	983	984	985	983	983	983	983	982	983	982	983	982	983	982	983	982	984	982	982	982	983	985	983	982	984	983	981	
Total ST-Coal		9719	9288	9102	8920	8356	8241	7955	7954	7687	7632	7644	7621	7348	7370	7653	7637	8022	9061	9763	10227	10388	10394	10366	10373	10378	10382	10376	10406	10386	10380	10376	10326	10273	10263	10244	10243	10267	10255	10256	10255	10237	10226	10270	10253	10250	10180	10204	10269	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	23	29	92	173	192	72	73	73	0	0	0	92	100	113	203	203	102	82	0	0	0	0	0	0	0	0	0	0	
EMPP	BLK1	663	711	689	676	713	691	710	686	693	682	668	678	721	723	707	694	670	593	526	479	502	505	549	542	442	405	403	412	416	547	700	709	711	711	711	689	579	465	627	718	710	714	711	709	691	714	708	700	
EMPP	BLK2	681	710	708	694	714	707	710	703	710	701	687	695	721	723	710	709	711	593	524	482	503	506	546	542	441	405	403	410	412	557	695	708	711	711	691	572	465	632	718	710	716	710	709	691	714	711	696		
EMPP	BLK3	663	710	689	695	712	690	710	685	695	682	669	678	721	723	709	693	669	594	524	482	503	505	548	542	443	405	403	412	416	560	699	710	710	711	711	687	572	464	633	717	710	714	710	709	690	714	710	698	
GLGR	GT01	65	65	67	67	67	66	66	66	67	66	66	67	67	66	67	67	85	105	105	105	104	104	104	104	103	103	105	104	103	103	104	104	104	104	102	103	104	105	103	64	66	64	72	93	96	93	93		
GLGR	GT02	66	67	66	67	66	66	66	67	66	66	66	66	67	67	66	66	86	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	104	103	101	64	66	66	66	0	0	0	0	
GLGR	ST1C	70	71	71	70	71	70	70	70	71	70	70	71	71	71	70	70	78	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	93	93	94	94	73	70	70	71	41	41	41	41			
NPRI	BLK1	491	331	325	314	334	329	331	324	328	320	311	316	341	344	331	328	332	332	331	331	335	332	332	332	331	331	322	322	330	331	331	326	332	343	449	448	304	310	311	313	509	515	518	515	515	512	521	516	510
NPRI	BLK2	478	340	318	306	351	325	326	318	321	314	304	310	406	432	326	321	326	328	338	328	330	328	327	326	326	316	316	325	326	330	321	377	521	508	409	314	321	322	322	496	523	523	521	511	506	515	511	316	
PCGP	PGRG	551	602	592	567	608	594	603	586	594	581	562	571	622	627	602	593	602	605	601	607	602	602	603	602	585	390	530	531	602	591	601	603	605	601	586	599	602	602	619	600	610	597	604	593	609	602	592		
SPGP	BLK1	720	721	721	721	717	717	717	718	720	718	720	716	725	724	718	718	715	717	715	716	715	717	701	696	699	698	711	707	709	707	714	712	718	710	713	713	713	714	717	714	717	713	714	715	715	716	717		
SPGP	BLK2	687	717	712	696	720	711	714	706	711	707	696	700	731	735	717	711	715	719	719	715	716	715	709	711	709	713	695	711	714	710	705	711	719	716	711	704	709	712	713	720	713	716	709	711	707	713	711	710	
TJGS	GT1A	113	129	132	118	128	131	128	130	127	126	117	124	134	132	131	128	129	132	131	129	129	129	131	129	126	126	132	132	128																				

Daily MW Generation on Friday

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		
KNYR	HY01	93	97	97	96	97	97	97	97	96	96	95	94	97	97	97	97	97	97	97	97	96	97	97	97	97	
KNYR	HY02	94	98	98	96	98	98	98	98	98	97	95	94	98	98	98	98	98	98	98	98	98	98	98	98	98	
KNYR	HY04	93	98	98	96	98	98	98	98	97	97	95	94	98	98	98	98	98	98	98	98	98	98	98	98	98	
LPIA	HY01	23	21	21	21	21	21	21	21	21	20	20	20	20	21	21	21	21	21	21	21	21	21	21	20	20	
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	3	
PGAU	HY01	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	111	111	20	21	-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	-1	
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	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	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	0	
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	-1	
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	32	32	32	32	32	0	0	0	0	0	0	0	0	
TMGR	HY04	35	72	41	37	76	41	43	41	41	39	37	39	84	84	41	42	41	81	40	81	81	80	81	73	40	
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	-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	-1	
UPIA	HY01	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	
Total Hydro		538	605	554	545	589	554	556	537	534	530	523	547	579	778	536	558	535	569	502	576	610	713	759	761	602	548
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	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	0	
BKLS	LSS2	0	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	LSS2	0	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	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	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	0	
JELS	LSS2	0	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	0	
KDLS	LSS3	0	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	0	
KMLS	LSS2	0	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	LSS3	0	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	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MALS	LSS2	0	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	0	
MNLS	LSS3	0	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	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SNLS	LSS4	0	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	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	0	
STLS	LSS2	0	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	LSS2	0	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	
ESTL	ESTL	0	-1	0	0	0	0	0	0	-2	0	-2	-10	0	0	0	0	0	0	0	0	0	0	0	0	0	
KHTC	BLK1	-19	-19	-18	-18	-17	-18	-19	-19	-18	-18	-17	-15	-19	-19	-16	-19	-25	-29	-31	-33	-34	-38	-37	-39	-40	
PCUF	CUFG	19	19	20	21	20	19	21	21	21	21	20	23	24	22	23	24	23	22	24	23	24	23	22	22	22	
PCUF	CUFK	21	20	21	20	20	19	21	20	22	21	21	21	21	21	21	22	22	21	21	22	22	22	22	22	22	
PFTZ	PFTZ	4	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 Co-Gen		25	23	27	27	24	27	26	27	28	26	23	33	28	28	32	35	29	18	18	16	18	10	12	10	8	

Daily MW Generation on Friday

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		15862	15425	15109	14795	14508	14250	14024	13911	13686	13557	13460	13513	13624	13881	13706	13660	14090	15016	15529	15985	16351	16577	16770	16811	16493	16369	16226	16216	16367	16756	17139	17199	17374	17452	17272	16777	16323	15949	16274	17092	17433	17432	17313	17180	16836	16668	16499	16299
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	0
TIE-HVDC		-27	-29	-30	-31	-28	-28	-28	-28	-28	-30	-30	-30	-30	-28	-29	-29	-30	-29	-30	-28	-29	-29	-29	-29	-29	-29	-29	-30	-29	-29	-31	-28	-30	-29	-30	-30	-27	-29	-29	-30	-28	-28	-30					
TIE-PLTG		36	11	25	9	-6	6	27	3	18	39	8	3	1	4	4	-5	4	20	4	4	35	15	33	21	7	1	-3	-3	-38	-37	-39	-45	-14	-23	-10	-13	14	-23	3	-36	2	-36	-9	4	9	-23	-37	-18
Interconnection		8	-18	-5	-22	-34	-23	-1	-25	-10	11	-22	-27	-29	-27	-24	-34	-24	-10	-25	-25	7	-14	3	-7	-21	-28	-32	-32	-67	-66	-68	-74	-44	-52	-39	-44	-15	-53	-26	-66	-27	-64	-38	-25	-21	-52	-66	-48
System Total		15854	15443	15114	14817	14542	14273	14025	13936	13696	13546	13482	13540	13653	13908	13730	13694	14114	15026	15554	16010	16344	16591	16767	16818	16514	16397	16258	16248	16434	16822	17207	17273	17418	17504	17311	16821	16338	16002	16300	17158	17460	17496	17351	17205	16857	16720	16565	16347
SRev ST-Coal		433	607	607	622	866	910	900	902	910	913	908	922	902	914	905	915	916	620	443	289	234	228	256	249	244	240	246	216	236	242	246	296	209	219	238	239	215	227	226	227	245	256	212	229	232	255	252	213
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
SRev CCGT-Gas		792	863	946	1069	836	941	886	978	934	1005	1105	1050	708	667	883	939	919	1122	1337	1472	1396	1413	1297	1314	1615	1680	1969	1895	1760	1267	855	747	571	495	695	1007	1232	1552	1152	517	299	256	295	289	287	394	430	677
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 Co-Gen		0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	-2	1	0	0	0	0	0	0	0	0	0	0	-1	1	0	0	0	0	-1	0	1	-1	0	0	-2	0	1	0	0
Syncon		890	739	890	890	890	890	890	890	890	890	890	739	890	516	890	739	890	890	890	890	802	615	615	615	739	890	890	890	739	890	890	703	516	516	516	516	890	739	890	703	365	365	365	552	552	739	890	890
Hydro		150	234	134	143	99	134	132	151	154	158	165	292	109	284	152	281	153	119	162	175	229	313	267	265	300	166	191	174	274	158	159	215	218	217	245	359	159	287	161	247	244	290	419	353	391	158	169	165
S.Reserve Total		2265	2444	2577	2724	2692	2875	2808	2921	2888	2966	3068	3003	2608	2381	2830	2874	2878	2751	2833	2824	2662	2569	2435	2443	2898	2976	3296	3175	3009	2557	2149	1960	1515	1447	1694	2121	2496	2804	2429	1695	1152	1167	1291	1421	1462	1547	1741	1945