

Daily System Generation Summary on Thursday

Thursday, August 24, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,176 MW
Distillate	0 MW
Total TNB	2,176 MW
Total IPP	18,406 MW
Total Co-Gen	0 MW
Total System	24,584 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,887	4.15 %
Gas	44,176	11.54 %
Total TNB	60,063	15.70 %
ST-Coal	231,525	60.50 %
LSS	6,006	1.57 %
Gas	84,899	22.18 %
Total IPP	322,430	84.25 %
Co-Gen	35	0.01 %
Total Co-Gen	35	0.01 %
Total Generation	382,528	99.96 %
PLTG	484	0.13 %
HVDC	-643	-0.17 %
Interconnection	-159	-0.04 %
Net Energy	382,687	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:	16:00:00 Hour
Total Set On Bus	19,196 MW
TNB Generation	3,415 MW
IPP Generation	14,543 MW
Spinning Reserve	1,240 MW
Maximum Demand	17,883 MW
Net Energy	382,687 MWH
Load Factor	89.16 %

Fuel Cost

Total Cost:	81,399,689.38 RM
Cost per Unit	21.24 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	461
Hydro	393
Syncon	509
Thermal	220
Total	1,583

Time	Weather	Temperature
Afternoon	Cloudy	0
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	65
Total TNB	95
CBPS	43
EMPP	259
NPRI	163
PCGP	80
SPGP	196
Total IPP	740
Total Gas	835
Total Gas Required	835

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	15793	14939	14369	13958	13545	13435	13649	13854	14083	15439	16458	16886	16782	16386	17229	17631	17883	17467	16571	16561	17657	17601	17056	16621

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, August 29, 2023 2:35:36 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Thursday

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	696	696	695	695	696	696	603	555	555	375	354	451	516	696	697	696	694	695	694	693	694	693	694	693	696	696	695	695	694	695	697	695	695	695	696	694	696												
JMAH	U002	694	698	694	696	696	697	606	409	210	216	211	217	208	214	238	229	226	229	223	220	223	220	217	218	219	228	226	224	228	221	218	219	220	217	225	219	223	218	220	220	219	215	220	220	219	216	221	217	
JMHE	U001	972	976	970	970	900	898	900	897	898	900	901	849	850	849	839	851	849	979	974	977	976	980	974	977	974	975	977	979	978	974	975	978	978	974	974	968	975	973	976	980	974	975	968	971	976	972	973	973	
JMHE	U002	974	976	971	974	946	898	901	897	898	900	896	852	848	849	852	852	852	917	975	978	977	978	974	976	976	977	980	981	979	981	974	981	981	981	977	978	968	972	972	975	973	974	971	971	977	970	973	973	
JMJG	U001	688	679	675	672	679	680	671	677	682	683	680	684	678	667	679	682	679	681	686	678	683	677	679	678	682	679	664	668	679	681	679	679	664	660	682	682	670	667	677	668	677	668	669	671	671	671	673	679	
JMJG	U002	513	430	411	414	420	422	423	478	552	643	682	688	677	680	679	680	682	677	682	678	678	682	681	682	678	679	679	683	678	679	682	678	682	680	678	678	679	682	679	683	677	682	680	687	677	682	682	679	
JMJG	U003	672	672	678	677	674	673	675	671	671	672	670	675	673	671	671	673	667	672	672	673	671	670	668	677	670	672	673	673	672	671	671	673	672	672	673	667	672	671	677	673	672	672	675	673	671	673	670	673	
JMJG	U004	983	981	982	983	921	906	903	905	900	906	905	854	856	853	859	862	855	908	964	979	978	979	978	985	982	983	980	978	979	983	983	981	977	979	973	977	982	977	978	978	981	977	980	980	979	980	978	979	
PKLG	U003	277	279	277	250	212	149	147	153	150	148	153	150	151	150	151	152	244	277	286	283	279	277	278	278	279	276	277	277	276	277	277	277	275	278	277	279	275	276	277	275	278	279	277	277	275	276	278		
PKLG	U004	274	272	274	246	169	142	148	148	149	151	153	150	151	153	151	150	218	264	279	279	278	277	280	283	270	272	276	275	280	277	274	273	278	277	276	276	276	275	275	273	279	278	277	274	278	276	273		
PKLG	U005	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260		
TBIN	U001	688	691	692	689	690	690	688	689	689	689	638	691	689	689	689	688	688	688	688	688	688	688	687	689	687	687	688	687	691	690	689	689	683	688	688	689	688	683	687	685	690	687	687	687	688	687	687		
TBIN	U002	691	688	689	691	689	691	692	690	688	689	638	690	691	688	689	688	688	688	688	688	688	688	687	687	689	688	688	688	688	684	689	688	688	688	689	687	687	689	688	688	689	688	691	689	689	688	688	689	688
TBIN	U003	689	689	688	688	686	690	689	688	688	688	637	693	689	689	688	688	688	688	688	688	688	688	687	687	689	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	687
TBIN	U004	982	983	982	978	902	901	903	905	902	904	852	853	854	854	939	1015	1015	1013	1015	1013	1015	1013	1011	1013	1012	1010	1011	1011	1010	1011	983	981	982	982	982	983	984	984	982	982	981	981	986	982	983	985	982	982	
Total ST-Coal		10053	9970	9938	9883	9540	9393	9209	9020	8895	8822	8682	8756	8790	8962	8995	9090	9147	9557	9749	9785	9993	9986	9967	9926	9835	9853	9823	9845	9854	9855	9834	9829	9817	9803	9827	9812	9873	9920	9935	9930	9895	9924	9905	9926	9912	9928	9913	9904	
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	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	211	205	206	203	208	211	208	208	202	206	211	212	213	205	209	202	212	211	213	211	212	212	224	365	267	204	211	218	212	291	358	361	361	355	353	353	355	228	269	365	362	364	358	353	362	340	217	221	
EMPP	BLK1	408	405	404	401	409	408	410	407	401	406	409	409	424	405	410	400	433	410	446	532	618	666	712	714	650	580	458	600	657	694	685	670	692	684	684	678	687	552	709	714	709	715	702	681	702	710	685	618	
EMPP	BLK2	409	405	405	402	409	409	410	408	401	406	408	411	428	405	410	400	436	411	448	539	621	670	711	714	650	580	462	597	711	712	708	710	693	684	682	678	686	709	709	714	710	714	702	682	701	711	686	616	
EMPP	BLK3	409	405	407	401	410	409	410	407	401	406	409	411	429	406	410	399	436	410	444	540	619	668	710	713	674	682	686	717	710	712	707	711	692	684	684	678	686	708	709	714	709	714	702	683	701	710	686	614	
GLGR	GT01	107	109	108	109	109	94	93	94	93	94	96	95	95	93	96	94	94	94	95	93	95	94	94	94	94	95	94	96	94	93	93	94	95	95	95	95	96	97	96	95	95	94	95	96	97	96	95		
GLGR	ST1C	47	46	46	46	47	42	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	41	41	41	41	41	41			
NPRI	BLK1	523	516	517	515	523	524	521	522	512	521	525	528	530	519	525	512	526	527	526	524	525	527	529	529	509	514	526	523	526	523	522	525	523	518	513	513	518	520	519	523	523	526	520	515	522	524	517	445	
NPRI	BLK2	524	517	517	514	521	524	520	521	514	519	523	528	530	519	523	511	529	526	525	522	525	526	529	528	509	512	525	527	525	524	519	524	523	518	513	514	517	524	522	526	524	529	519	512	526	524	476	439	
PCGP	PGRG	600	430	386	379	394	399	393	393	376	389	400	407	385	395	377	405	602	604	599	606	604	610	615	566	582	603	618	602	602	593	602	598	587	578	580	586	602	604	614	604	613	592	580	602	602	584	595		
SPGP	BLK1	718	718	718	717	721	719	720	722	720	720	721	721	715	712	708	706	705	705	701	699	696	691	686	685	680	696	694	698	706	704	703	705	703	707	710	707	711	716	716	715	716	716	716	716	716	716	716	716	716
SPGP	BLK2	716	709	593	389	399	354	356	355	356	355	356	355	355	634	406	360	371	708	715	713	713	713	711	711	706	706	700	696	716	710	699	711	714	714	713	715	713	714	715	715	716	714	717	715	716	717	717	717	
TJGS	GT1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TJGS	GT1B	133	132	132	132	131	135	133	129	128	134	133	132	130	133	133	124	134	132	134	132	135	131	161	216																									

Daily MW Generation on Thursday

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	0	0	0	0	37	37	37	37	37	37	37	37	
KNRG	HY03	22	22	22	22	22	22	22	22	22	22	22	22	22	39	39	39	39	39	38	38	39	22	22	39	39	38	38	38	38	38	38	
KNYR	HY01	97	97	97	97	97	97	97	97	97	97	95	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	
KNYR	HY02	99	98	99	97	97	99	99	98	98	97	95	99	99	99	99	99	99	99	98	97	99	99	99	99	99	99	99	98	97	99	99	
LPIA	HY01	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	22	22	22	22	22	22	22	22	22	22	22	
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	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	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY02	0	0	0	110	11	11	11	-1	-1	-1	-1	-1	-1	-1	-1	22	-1	-1	-1	-1	-1	-1	-1	-1	-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	20	20	22	21	22	22	22	22	22	22	21	0
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	0	0	0	0	0	30	30	30	0	0
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	0	0	0	0	0	0	30	30	30	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	0	0	30	30	30	0	0
TMGR	HY01	81	-1	-1	-1	0	0	0	-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	84	31	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	31	34	36	36	36	36	36	36	36	36	36	36	36	36	
TMGR	HY03	40	40	39	40	41	41	41	40	38	41	41	79	83	39	41	38	84	63	83	80	79	80	83	84	37	40	41	45	43	74	73	
TMGR	HY04	0	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	81	79	78	79	80	32	49	82	81	81	41	38	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	60	-1	-1	90	90	183	182	176	83	83	-1	-1	-1	183	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	91	94	93	87	85	-1	-1	-1	-1	96	94	
UPIA	HY01	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	6	
Total Hydro		594	459	460	565	439	441	441	427	425	426	423	447	451	406	438	309	438	416	459	433	433	433	462	505	570	534	485	488	486	732	760	
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	0	0	0	0	0	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	6	6	9	11	20	12	16	17	24	13	15	9	24	22	18	19	
BKLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	7	10	12	15	18	31	34	11	23	33	7	26	25	29	25	22	
BSLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	2	17	15	11	12	9	34	33	35	35	30	16	23	27	15	15	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	16	22	27	31	34	38	42	38	42	33	31	39	38	31	32	27	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	3	27	28	25	30	38	29	36	34	21	41	26	32	34	29	
GELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	15	15	30	29	24	24	25	23	21	18	14	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	7	8	12	22	35	11	21	17	21	46	41	46	41	13	28	17	
JELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	3	3	8	18	15	26	18	28	17	17	25	26	30	24	28	24	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	12	18	24	30	35	27	40	46	50	48	48	46	44	42	38	34	
KDLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	7	6	5	33	29	32	21	38	82	91	89	69	90	53	49	84	19	61	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	14	15	15	12	19	41	45	46	46	47	39	22	39	35	21	
KMLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	12	10	16	16	15	26	29	30	28	16	22	23	29	28	25	
KNLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	1	7	15	18	10	30	71	75	56	66	91	77	85	90	84	68	
KRLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	4	8	8	9	20	28	19	29	26	28	28	29	24	28	
MALS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	14	17	29	19	25	27	29	29	29	29	28	29	29	19	29	25	
MNLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	14	26	88	90	83	82	89	88	92	90	94	89	33	9	7	
PKLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	9	51	61	76	86	91	101	102	95	90	103	92	76	81	81	84	71	60	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	12	19	29	30	39	48	10	38	55	54	55	49	41	23	45	39	
SSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3	3	3	21	24	22	15	24	38	45	35	23	39	14	25	9	
STLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	13	14	19	10	25	26	28	26	29	29	28	27	16	23	20	16	
TBLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	13	20	30	30	30	30	30	29	30	30	30	30	30	30	30	25	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	7	63	123	210	370	487	559	615	619	833	864	877	892	890	792	714	761	644	581	
ESTL	ESTL	13	14	12	14	14	12	0	8	0	0	5	10	7	20	23	14	9	14	10	11	12	0	1	0	18	2	2	0	0	0	11	10
KHTC	BLK1	-23	-24	-23	-18	-21	-22	-22	-23	-23	-23	-24	-22	-22	-21	-23	-31	-27	-28	-29	-28	-29	-27	-27	-26	-28	-31	-32	-34	-36	-39	-37	
PCUF	CUFK	12	13	13	13	12	13	13	13	15	14	14	13	15	14	14	11	15	21	21	22	21	21	21	21	22	20	23	21	22	20	21	
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	4	4	4	4	4	4	

Daily MW Generation on Thursday

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 Co-Gen		6	7	6	13	9	7	-5	2	-4	-5	-1	5	4	16	20	9	-7	6	7	7	10	-4	-1	-2	17	0	-5	-5	-9	-10	-4	-2	-2	-15	7	-1	8	-9	-5	-14	-18	-4	3	7	6	1	12	8	
Total Gen		15793	15367	14922	14746	14348	14148	13939	13735	13540	13519	13415	13529	13626	13929	13812	13635	14052	14965	15403	15826	16417	16610	16861	17106	16813	16648	16366	16860	17233	17654	17614	17921	17956	17863	17483	17035	16600	16301	16555	17327	17678	17736	17600	17420	17040	16944	16627	16347	
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	0
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-30	-30	-29	-29	-29	-30	-29	-30	-30	0	0	0	0	0	-29	-30	-29	-30	-30	-30	-29	-28	-28	-29	-29	-29	-30	-28	-28	-31	-29	-29	-30	-28	-30	-30	
TIE-PLTG		29	9	12	14	8	20	9	21	23	-2	9	14	7	21	-12	10	-2	15	-7	17	-11	-20	-25	-2	31	14	9	30	33	-15	13	80	101	55	44	37	58	24	22	20	49	27	28	41	15	21	36	37	
Interconnection		0	-20	-17	-16	-21	-8	-19	-7	-5	-30	-20	-16	-23	-8	-42	-20	-31	-15	-36	-13	-41	-50	-25	-2	31	14	-20	0	4	-45	-17	49	73	26	16	9	29	-6	-6	-9	21	-4	-1	12	-16	-7	6	7	
System Total		15793	15387	14939	14762	14369	14156	13958	13742	13545	13549	13435	13545	13649	13937	13854	13655	14083	14980	15439	15839	16458	16660	16886	17108	16782	16634	16386	16860	17229	17699	17631	17872	17883	17837	17467	17026	16571	16307	16561	17336	17657	17740	17601	17408	17056	16951	16621	16340	
SRev ST-Coal		345	308	270	307	533	583	728	677	810	681	805	673	713	673	632	546	486	388	249	213	169	176	195	165	256	238	268	246	237	186	207	212	224	238	214	229	289	242	227	232	267	238	257	236	250	234	249	238	
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		1456	1665	1724	1957	1882	1935	1948	1956	2018	1966	1931	1921	1861	1697	1883	2022	1831	1379	1264	1011	748	606	424	184	684	845	1056	828	584	311	286	265	273	327	351	448	605	792	586	179	208	173	252	347	465	501	767	1068	
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 Co-Gen		0	0	0	-1	0	0	-1	-4	-1	1	0	1	0	1	0	5	2	0	0	-1	1	0	0	0	0	1	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syncon		651	739	739	827	739	739	739	978	978	978	827	890	978	978	978	978	978	978	827	978	978	978	978	676	313	500	739	739	739	365	365	239	151	151	277	703	978	978	978	478	151	302	302	302	615	615	615	615	
Hydro		159	206	205	249	289	287	287	149	151	150	280	106	101	146	201	243	114	136	244	119	119	119	90	349	647	496	306	303	305	483	505	500	590	619	617	381	321	365	261	400	481	350	395	505	439	210	257	223	
S.Reserve Total		2611	2918	2938	3339	3530	3631	3788	3756	3956	3774	3844	3677	3654	3494	3695	3789	3414	2883	2584	2321	2013	1880	1687	1374	1900	2080	2369	2116	1865	1345	1364	1217	1240	1335	1459	1761	2193	2377	2052	1289	1107	1064	1206	1390	1769	1560	1888	2144	