

Daily System Generation Summary on Saturday

Saturday, August 26, 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	19,017 MW
Total Co-Gen	0 MW
Total System	24,475 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,352	3.53 %
Gas	28,939	8.26 %
Total TNB	41,291	11.79 %
ST-Coal	205,036	58.54 %
LSS	5,307	1.52 %
Gas	97,628	27.87 %
Total IPP	307,971	87.92 %
Co-Gen	272	0.08 %
Total Co-Gen	272	0.08 %
Total Generation	349,534	99.79 %
PLTG	-40	-0.01 %
HVDC	-701	-0.20 %
Interconnection	-741	-0.21 %
Net Energy	350,275	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:	20:00:00 Hour
Total Set On Bus	17,557 MW
TNB Generation	1,894 MW
IPP Generation	14,203 MW
Spinning Reserve	1,453 MW
Maximum Demand	16,137 MW
Net Energy	350,275 MWH
Load Factor	90.44 %

Fuel Cost

Total Cost:	74,075,411.56 RM
Cost per Unit	21.16 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	200
Hydro	240
Syncon	790
Thermal	637
Total	1,867

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	31
TJGS	52
Total TNB	82
CBPS	52
EMPP	307
NPRI	164
PCGP	88
SPGP	111
Total IPP	722
Total Gas	804
Total Gas Required	804

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	15719	14952	14363	13880	13534	13298	13263	13127	12872	13904	14579	14958	14760	14608	14797	14954	15167	14930	14704	15051	16137	15953	15481	15237

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, August 29, 2023 3:30:48 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Saturday

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	657	603	603	657	656	603	544	506	462	353	257	214	213	223	223	221	217	217	213	213	214	212	213	214	213	214	215	213	214	215	212	225	315	334	525	695	697	682	695	496	353	304	305							
JMAH	U002	656	604	605	656	654	602	544	504	462	352	219	213	213	213	213	213	213	214	213	213	213	213	213	214	214	213	213	215	213	214	214	222	312	336	549	695	694	694	694	504	343	303	221							
JMHE	U001	797	751	750	536	501	498	501	500	504	501	503	501	502	500	501	500	502	598	699	701	803	903	899	898	898	946	975	977	974	976	973	971	975	973	974	974	972	975	977	972	972	971	973	972	973	972	948	951		
JMHE	U002	789	748	663	499	502	496	506	503	500	500	500	499	501	503	501	503	497	600	699	699	791	901	898	901	899	928	974	979	978	976	976	974	978	978	977	979	975	979	976	980	977	980	977	979	979	978	949	948		
JMJG	U001	672	672	671	667	666	662	667	669	675	677	682	677	677	666	669	667	677	676	667	679	668	673	670	672	672	667	671	676	673	673	671	671	672	673	675	671	677	668	675	672	672	674	675	667	669	676	675	666		
JMJG	U002	681	679	672	683	679	679	678	671	676	674	673	674	674	672	679	677	676	671	678	673	673	676	673	673	673	666	681	671	679	674	673	670	676	677	678	615	585	673	674	675	678	674	677	679	677	675	677	672		
JMJG	U003	668	668	667	668	668	668	671	673	672	668	672	668	671	675	668	672	673	668	671	666	669	666	669	667	652	592	596	596	596	593	598	607	680	671	671	675	673	673	671	668	676	673	666	672	678	671	670	671		
JMJG	U004	980	930	853	763	716	656	603	648	712	797	829	828	826	825	827	826	825	824	823	826	855	904	905	906	901	920	972	978	979	983	980	981	982	978	977	983	977	976	979	977	981	977	981	980	978	975	953	954		
PKLG	U003	154	147	149	149	148	149	149	148	149	148	149	148	149	148	149	148	150	148	148	148	150	149	149	147	149	149	148	149	148	150	149	149	150	149	148	148	147	150	150	214	207	157	147	151	151	149	151	151		
PKLG	U004	150	148	149	145	149	148	151	146	148	149	151	150	150	151	148	151	149	149	148	148	152	148	146	149	151	145	148	148	152	150	149	149	150	149	150	150	149	149	209	204	156	150	148	152	148	149	150			
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				
TBIN	U001	689	690	689	689	690	690	690	691	690	687	684	689	689	602	549	500	500	500	603	599	599	599	600	599	500	494	411	452	501	601	598	692	687	660	549	567	600	600	687	692	690	689	689	690	691	690	690			
TBIN	U002	688	687	689	687	687	686	687	689	689	689	688	687	602	548	500	502	501	603	599	600	600	600	601	600	501	492	401	453	501	601	599	678	689	659	551	555	601	600	691	688	688	689	689	690	690	688	688			
TBIN	U003	686	688	690	690	690	687	687	687	690	687	686	690	687	686	690	623	550	495	500	498	604	599	600	603	599	601	599	503	488	400	453	503	601	599	678	689	663	550	560	601	600	689	690	688	684	687	689	691	684	686
TBIN	U004	984	985	984	984	985	983	984	932	841	825	822	823	823	822	824	823	823	823	823	823	881	905	902	903	902	922	983	983	983	981	979	983	984	983	985	983	985	983	985	985	983	984	983	982	981	984	982	953	952	
Total ST-Coal		9511	9260	9094	8733	8651	8467	8322	8228	8129	7968	7776	7719	7725	7476	7308	7160	7166	7346	7857	7846	8126	8414	8394	8404	8382	8125	8309	8058	8207	8346	8637	8640	8982	8984	8906	8514	8530	8917	8964	9752	10071	9962	9926	9943	9570	9254	9054	8965		
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	0
CBPS	BLK2	268	218	268	360	355	355	356	290	220	218	222	222	311	336	360	359	301	360	348	360	357	357	358	359	351	358	347	367	360	362	356	365	359	355	340	358	359	353	365	361	358	359	357	349	352	358	357	356		
EMPP	BLK1	701	593	645	711	689	688	686	686	608	608	665	707	704	709	710	697	700	711	677	709	702	699	709	708	683	708	672	720	710	713	691	714	709	685	662	704	710	684	719	711	710	709	704	679	678	707	704	689		
EMPP	BLK2	697	689	686	710	687	688	688	686	697	690	709	710	703	709	711	702	708	710	678	710	702	700	709	709	679	706	673	721	710	713	691	714	709	685	661	703	709	684	719	711	710	709	703	680	678	707	699	690		
EMPP	BLK3	701	689	692	710	688	689	686	686	698	690	710	711	703	709	710	717	707	710	677	708	701	700	709	709	682	708	672	721	710	713	691	715	709	686	663	703	708	684	719	701	699	708	704	680	677	707	705	690		
GLGR	GT01	97	95	95	95	96	95	95	95	95	95	96	95	95	95	96	96	95	98	95	95	96	95	94	94	94	94	96	97	108	109	109	109	108	108	107	109	109	109	109	108	108	108	109	107	107	108				
GLGR	ST1C	43	43	42	42	42	43	42	42	43	43	43	43	43	43	43	43	42	42	42	41	42	43	42	42	43	42	42	42	45	47	45	46	46	46	46	46	47	46	47	46	46	46	46	46	47	46	46			
NPRI	BLK1	524	523	525	525	522	525	523	522	527	526	532	530	530	530	530	524	527	531	515	529	526	527	521	528	520	530	514	535	532	537	525	536	532	524	505	528	530	523	532	532	529	529	527	517	523	529	528	525		
NPRI	BLK2	523	517	519	523	517	520	517	517	520	520	525	523	525	524	524	522	523	527	509	526	520	521	525	525	513	524	506	536	523	529	519	530	524	518	500	524	524	516	532	528	524	523	521	511	515	523	523	520		
PCGP	PGRG	600	589	592	603	587	590	591	586	597	593	603	601	601	601	602	602	600	600	571	603	593	602	600	602	577	599	566	628	603	610	591	615	601	590	553	600	606	587	616	609	602	603	594	573	580	601	595	589		
SPGP	BLK1	719	720	362	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	722	722	721	721	723	723	720	722	722	722	721	720	722	720	724	721	721	720	720	720	720	719	716	714	714	714	720	721	720	718	721	720	719	721	720	721	722	720	721	720	722	720	721	721	721	721	720			
TJGS	GT1B	131	131	192	223	181	129	134	131	134	132	134	130	132	222	220	129	135	223	222	222	225	221	219	220	223	220	217	218	217	216	213	215	216	219	217	219	217	218	217	214	218	220	216	218	217	220	216	218		
TJGS	ST1C	79	79	101	117	114	81	79	79	79	79	79	79	111	119	90	79	118	118	119	119	119	119	119	119	119	119	118	118	118	118	117	117	118	116																

Daily MW Generation on Saturday

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
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
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	31	31	31
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31
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
TMGR	HY04	41	40	43	41	40	40	39	41	41	41	41	41	38	64	41	42	65	41	38	48	37	84	44	73
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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
UPIA	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
Total Hydro		367	368	380	493	453	454	415	412	418	427	447	374	374	452	456	380	376	386	388	467	410	407	490	490
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	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
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
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	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
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	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
JLSL	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	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
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	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
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
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
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
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	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
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
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
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	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
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
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
ESTL	ESTL	12	15	1	9	13	13	2	12	14	0	0	11	0	0	0	14	8	9	2	0	0	2	10	0
KHTC	BLK1	-22	-24	-26	-24	-22	-21	-22	-19	-20	-21	-18	-19	-21	-17	-14	-19	-23	-24	-26	-30	-30	-34	-33	-26
PCUF	CUFU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFK	21	19	22	22	22	22	21	22	22	22	21	22	22	22	23	23	22	21	21	22	22	21	21	10
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
Total Co-Gen		15	14	1	11	17	18	5	19	20	5	8	18	7	5	7	12	21	12	12	2	-4	-5	-6	4
Total Gen		15698	15250	14915	14577	14322	14065	13859	13701	13507	13316	13270	13182	13254	13242	13119	12765	12840	13410	13895	14245	14537	14888	14911	14985
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
TIE-HVDC		-28	-28	-28	-28	-28	-30	-29	-28	-31	-30	-31	-30	-30	-28	-30	-29	-29	-29	-29	-29	-28	-30	-30	-28
TIE-PLTG		7	-4	-9	1	-12	1	9	25	1	-3	2	-7	21	-12	20	1	-3	-4	20	-18	-14	-15	-19	7

Daily MW Generation on Saturday

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	
Interconnection		-21	-31	-37	-26	-41	-28	-21	-4	-27	-33	-28	-37	-9	-43	-8	-29	-32	-33	-9	-47	-42	-44	-47	-23	-62	-57	-21	-29	-41	-37	-17	19	-3	-18	-24	-48	-36	-40	-50	-58	-33	-44	-38	-23	-34	-18	-32	-41
System Total		15719	15281	14952	14603	14363	14093	13880	13705	13534	13349	13298	13219	13263	13285	13127	12794	12872	13443	13904	14292	14579	14932	14958	15008	14760	14654	14608	14757	14797	14942	14954	14976	15167	15155	14930	14725	14704	14779	15051	15870	16137	16050	15953	15812	15481	15347	15237	15017
SRev ST-Coal		522	516	601	530	384	504	548	555	611	638	723	732	728	912	906	910	898	912	907	904	921	902	911	913	935	865	592	586	581	590	595	590	340	427	505	648	653	606	599	428	284	294	315	300	418	420	538	545
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		417	614	422	162	301	376	385	460	562	586	463	431	354	193	154	314	362	154	330	156	201	200	178	172	305	179	360	79	160	120	230	107	152	247	411	172	143	260	89	143	158	147	184	303	287	157	183	233
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	0	0	-1	0	1	1	0	1	0	0	-2	-1	0	0	0	0	0	-1	0	0	0	0	1	0	1	0	-1	1	-1	1	0	1	0	0	-1	2	0	0	0	0	0	-1	-1	0	0	0	0
Syncon		890	890	890	890	890	890	890	890	890	739	739	890	890	890	890	890	890	890	890	890	890	890	739	890	739	703	890	890	703	703	703	890	890	890	890	890	739	890	739	703	703	703	703	703	703	516	703	
Hydro		286	285	273	160	200	199	238	241	235	377	357	279	279	201	197	273	277	267	265	186	243	246	314	163	313	220	185	88	226	193	272	121	155	173	197	177	223	174	220	202	308	305	324	340	337	251	360	270
S.Reserve Total		2115	2305	2186	1741	1775	1970	2062	2146	2299	2340	2282	2330	2250	2196	2147	2387	2427	2223	2391	2136	2255	2238	2142	2139	2292	1968	2027	1642	1671	1605	1801	1708	1538	1737	2003	1886	1760	1930	1647	1476	1453	1449	1526	1645	1744	1531	1597	1751