

Daily System Generation Summary on Friday

Friday, May 5, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,300 MW
Distillate	0 MW
Total TNB	2,300 MW
Total IPP	18,945 MW
Total Co-Gen	0 MW
Total System	25,247 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,227	3.68 %
Gas	44,130	11.40 %
Total TNB	58,357	15.08 %
ST-Coal	231,553	59.84 %
LSS	6,281	1.62 %
Gas	90,248	23.32 %
Total IPP	328,082	84.78 %
Co-Gen	521	0.13 %
Total Co-Gen	521	0.13 %
Total Generation	386,960	100.00 %
PLTG	-12	0.00 %
Interconnection	-12	0.00 %
Net Energy	386,972	100.00 %

Maximum Demand Record

Date: 5/8/2023	19,191 MW
Date: 4/13/2023	407,278 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	19,365 MW
TNB Generation	3,238 MW
IPP Generation	15,044 MW
Spinning Reserve	1,062 MW
Maximum Demand	18,265 MW
Net Energy	386,972 MWH
Load Factor	88.28 %

Fuel Cost

Total Cost:	98,119,228.55 RM
Cost per Unit	25.36 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	521
Hydro	411
Syncon	650
Thermal	179
Total	1,761

Time	Weather	Temperature
Afternoon	Hot	36
Morning	Sunny	29

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	57
Total TNB	86
CBPS	43
EMPP	295
NPRI	145
PCGP	89
SPGP	202
Total IPP	774
Total Gas	860
Total Gas Required	860

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	15888	15148	14695	14090	13720	13488	13684	13536	14009	15689	16562	17242	17177	16949	17368	18091	18251	17933	16803	16603	17709	17649	17076	16916

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, May 9, 2023 9:47:43 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Friday

		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	613	505	379	289	213	218	216	218	216	217	216	217	216	276	308	306	372	542	700	704	708	706	706	695	665	692	706	710	704	708	709	705	705	705	707	705	707	708	705	707	704	707	704	705	707	705	706	705	
JMAH	U002	604	501	376	266	212	214	213	214	214	213	214	214	213	263	314	302	440	620	695	709	707	704	707	707	703	706	704	699	705	706	706	703	708	709	706	702	703	704	707	705	705	706	705	703	708	708	700	706	
JMHE	U001	973	976	978	979	975	901	898	902	901	852	851	854	850	851	849	851	853	908	973	976	972	973	975	974	974	971	974	975	976	973	976	976	974	976	975	975	975	974	975	974	977	977	974	975	973	975	975		
JMHE	U002	973	976	976	975	975	898	900	901	899	851	848	850	851	850	851	854	852	894	973	974	976	976	975	974	975	973	975	978	978	974	976	978	977	976	977	975	974	980	977	976	977	978	976	976	975	977	980	973	
JMJG	U002	672	673	673	678	672	673	666	668	676	675	676	674	673	673	676	676	676	677	676	677	679	671	676	672	673	675	674	675	672	674	675	678	673	674	671	680	671	673	675	672	675	674	676	674	675	675	676		
JMJG	U004	980	978	980	977	978	913	902	905	904	851	854	856	853	854	854	857	867	925	977	976	975	980	978	977	979	977	976	978	979	978	977	979	977	977	974	975	976	973	978	977	974	977	973	979	977	976			
JMJG	U005	977	978	976	975	975	897	898	900	899	848	850	851	851	850	850	849	854	876	956	977	976	976	977	975	977	974	977	977	977	975	977	979	968	980	977	979	973	974	979	980	976	977	977	977	976	975	978	975	
PKLG	U003	151	153	155	155	154	155	155	156	156	156	156	156	155	156	156	155	151	150	150	241	273	283	280	278	279	276	279	279	277	277	277	277	278	278	0	0	0	0	0	0	0	0	0	0	0	0	0		
PKLG	U004	140	148	157	151	150	150	155	155	154	159	150	150	150	141	145	155	150	148	147	150	232	261	277	278	277	274	276	276	277	275	184	189	205	206	206	206	203	207	205	207	205	203	203	201	204	206	206	206	
PKLG	U005	268	268	269	268	268	268	268	269	268	268	268	269	269	268	269	269	269	269	268	269	270	270	269	339	434																								

Daily MW Generation on Friday

		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
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	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1
PGAU	HY02		-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY03		21	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGAU	HY04		21	22	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	82	82	81	83	82	21	21	20
SIHY	HY01		30	30	30	30	30	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	30	30	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY03		30	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY01		25	25	25	25	25	25	25	25	25	25	16	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY03		25	25	25	25	25	25	25	25	25	25	16	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY01		0	0	-1	0	-1	-1	-1	0	0	-1	-1	0	-1	0	0	-1	0	84	85	85	85	85	84	61
TMGR	HY02		34	48	49	46	46	73	45	45	52	77	46	46	46	46	46	45	90	91	91	90	76	91	71	
TMGR	HY03		31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	82	82	82	
UJLI	HY01		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	91	93	92	93	
UJLI	HY02		0	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	90	95	186	185	95		
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			511	478	451	435	484	521	358	356	334	368	308	309	291	257	257	295	258	281	256	259	198	200	332	322
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
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
MALS	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
ESTL	ESTL		15	14	16	17	14	13	18	14	15	15	18	14	18	18	18	18	18	18	18	18	18	18	18	18
PCUF	CUFG		4	4	4	4	3	4	4	3	4	4	3	3	2	3	4	4	3	4	4	4	3	2	3	3
PCUF	CUFK		4	4	3	3	3	3	4	4	4	4	2	4	4	2	3	1	4	4	0	5	3	3	4	3
Total Co-Gen			23	22	23	24	20	20	26	21	23	23	25	19	25	25	22	25	21	27	19	15	10	13	17	20

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		15881	15484	15144	14826	14694	14338	14093	13875	13694	13532	13483	13537	13697	13802	13529	13555	13993	15137	15702	16211	16566	16992	17294	17374	17191	17081	16903	17077	17334	17699	18087	18213	18286	18303	17966	17530	16809	16511	16595	17670	17720	17747	17653	17324	17070	16996	16926	16594
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	
TIE-HVDC		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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-PLTG		-7	-4	-4	-7	-1	-15	3	4	-26	-12	-5	3	13	-4	-7	-26	-16	12	13	16	4	20	52	18	14	-10	-46	-38	-34	-17	-4	11	35	38	33	13	6	-28	-8	5	11	-6	4	-12	-6	-7	10	-10
Interconnection		-7	-4	-4	-7	-1	-15	3	4	-26	-12	-5	3	13	-4	-7	-26	-16	12	13	16	4	20	52	18	14	-10	-46	-38	-34	-17	-4	11	35	38	33	13	6	-28	-8	5	11	-6	4	-12	-6	-7	10	-10
System Total		15888	15488	15148	14833	14695	14353	14090	13871	13720	13544	13488	13534	13684	13806	13536	13581	14009	15125	15689	16195	16562	16972	17242	17356	17177	17091	16949	17115	17368	17716	18091	18202	18251	18265	17933	17517	16803	16539	16603	17665	17709	17753	17649	17336	17076	17003	16916	16604
SRev ST-Coal		467	422	432	536	581	937	959	1013	1009	1015	1011	1016	1019	847	811	808	807	800	399	311	249	179	147	161	197	173	164	156	158	159	164	156	148	137	136	142	144	151	127	121	147	141	144	147	139	133	134	136
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 CCGT-Gas		363	641	860	1168	1171	1082	921	1030	856	807	792	742	635	1086	1475	1534	1385	911	1067	930	987	683	557	588	651	873	972	830	529	492	252	236	248	227	223	222	429	754	793	324	315	226	360	593	746	692	761	941
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 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 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	
Syncon		615	615	703	766	703	854	854	766	802	1041	1041	1041	953	1041	953	739	953	802	1041	953	1142	1054	903	903	1142	1054	1054	1142	1054	766	428	277	428	302	428	277	802	890	1041	302	302	302	302	390	239	577	577	764
Hydro		598	544	420	286	437	249	187	190	312	126	186	185	204	187	188	451	187	315	188	186	145	144	263	273	141	181	182	181	179	250	353	413	366	396	470	648	431	489	228	568	494	567	520	510	741	482	483	344
S.Reserve Total		2130	2396	2502	2930	2979	3209	3008	3173	3203	3126	3167	3121	2985	3248	3601	3619	3506	3002	2782	2554	2610	2234	2044	2099	2218	2455	2546	2396	2094	1754	1197	1082	1190	1062	1257	1289	1806	2284	2276	1315	1258	1236	1326	1640	1865	1884	1955	2185