

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,412 MW
Distillate	0 MW
Total TNB	2,412 MW
Total IPP	19,711 MW
Total Co-Gen	0 MW
Total System	26,125 MW

Generation Mix

Type	MWh	Percentage
Hydro	11,541	3.71 %
Gas	37,233	11.96 %
Total TNB	48,774	15.66 %
ST-Coal	165,690	53.21 %
LSS	6,598	2.12 %
Gas	89,795	28.84 %
Total IPP	262,083	84.16 %
Co-Gen	640	0.21 %
Total Co-Gen	640	0.21 %
Total Generation	311,497	100.03 %
PLTG	-625	-0.20 %
HVDC	725	0.23 %
Interconnection	100	0.03 %
Net Energy	311,397	100.00 %

Maximum Demand Record

Date: 5/24/2022	19,183 MW
Date: 4/13/2023	407,278 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	00:00:00 Hour
Total Set On Bus	16,339 MW
TNB Generation	2,134 MW
IPP Generation	12,525 MW
Spinning Reserve	1,651 MW
Maximum Demand	14,683 MW
Net Energy	311,397 MWH
Load Factor	88.37 %

Fuel Cost

Total Cost:	71,256,507.31 RM
Cost per Unit	22.87 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	576
Hydro	272
Syncon	874
Thermal	751
Total	2,473

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	29
Total TNB	29
CBPS	45
EMPP	288
NPRI	147
PCGP	89
SPGP	208
Total IPP	777
Total Gas	806
Total Gas Required	806

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	14683	13963	13333	12940	12570	12442	12140	11639	10804	11070	11532	12088	12257	12416	12724	13162	13466	13620	13622	13758	14377	14516	14234	14114

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, April 26, 2023 11:25:44 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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																																	
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	21	21	20	20	20																														
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	21	21	20	20	20																														
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	0	0																														
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25																														
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25																														
SYPS	HY04	0	0	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	83	83	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	84	84	84	84	84																														
TMGR	HY02	87	87	87	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	87	87	87	87	87	87																														
TMGR	HY03	79	84	56	84	55	83	83	84	41	84	46	46	85	83	84	84	80	69	84	85	84	84	84	84	84	84	84																														
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	91	92	90	-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	96	187	187	185	95	21	-1	-1	-1																											
UPIA	HY01	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5																														
UPIA	HY02	5	5	5	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5																														
Total Hydro		583	548	393	330	301	328	329	330	286	329	290	309	350	347	298	298	294	286	288	281	299	279	285	282	284	281	281	282	285	508	497	554	528	708	563	558	575	579	508	761	1052	1075	1089	962	827	687	688	667									
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
BDSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	5	7	9	10	12	24	26	27	18	18	21	15	24	11	20	2	1	1	1	1	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	2	4	9	12	14	16	20	25	25	21	11	26	10	14	27	24	19	20	16	10	6	2	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	3	9	12	14	12	11	15	19	31	32	32	32	32	32	31	28	27	20	17	13	8	4	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	1	10	16	23	30	33	32	28	26	40	35	45	31	23	37	34	24	28	17	7	2	1	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	2	4	11	16	16	16	33	35	31	39	41	40	44	40	39	30	26	29	4	3	2	1	1	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	3	6	14	16	18	24	23	25	28	27	29	21	26	24	23	21	17	13	2	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	4	9	16	18	31	34	36	27	43	43	48	48	41	43	41	38	32	27	22	16	10	2	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	4	8	13	18	15	24	11	30	20	24	26	16	24	29	17	15	23	20	16	12	7	4	1	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	3	6	13	18	14	14	35	37	50	37	43	31	39	30	21	35	40	32	28	22	6	5	3	1	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	9	25	35	53	60	46	38	53	86	89	91	82	92	75	85	78	72	59	37	34	21	10	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	4	11	8	7	7	15	19	35	40	42	43	44	27	37	16	38	34	29	23	14	12	7	2	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	1	5	10	19	29	56	80	93	98	100	100	100	100	79	49	81	92	80	52	52	40	24	14	12	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	1	3	6	9	15	18	30	30	30	30	30	29	30	29	17	12	21	27	17	20	12	8	3	4	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	2	3	10	7	14	12	19	29	29	30	29	30	29	29	29	30	23	10	19	2	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	1	4	10	9	12	16	15	23	32	26	44	43	38	44	42	41	36	32	23	6	4	3	1	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	5	26	35	25	22	38	33	50	52	48	93	94	98	98	95	90	87	87	81	9	7	5	2	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	17	33	48	69	79	89	105	110	110	110	110	115	115	110	108	94	84	74	58	43	23	2	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	1	2	7	20	28	42	45	29	42	32	37	41	42	48	25	32	45	27	34	27	22	19	10	3	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	3	6	7	14	20	22	31	37	31	30	44	46	22	19	19	28	5	3	5	4	3	2	1	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	1	3	6	9	17	14	19	23	22	16	24	19	20	20	18	13	7	4	3	2	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	2	8	16	21	30	30	30	30	30	30	30	30	30	30	30	30	30	29	24	16	10	1	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	16	110	234	330	434	545	642	702	826	860	955	939	975	883	790	829	835	748	597	402	287	172	70	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTL	ESTL	10	10	10	12	13	11	12	12	12	13	16	14	15	0	14	0	10	11	6	8	1	12	12	12	12	10	14	5	4	13	8	1	7	9	14	9	8	9	12	6	1	4	9	8	12	7	8	11	14	14	14						
KHTC	BLK1	11	14	14	15	15	15	9	6	7	8	8	10	9	9	8	8	8	7	2	0	6	7	0	0	0	0	0	0	0	4	5	4	4	6	4	4	5	5	12	12	9	8	11														

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																									
System Total		14683	14216	13963	13641	13333	13177	12940	12770	12570	12535	12442	12243	12140	12032	11639	10949	10804	10920	11070	11232	11532	11905	12088	12188	12257	12338	12416	12527	12724	13034	13162	13312	13466	13609	13620	13604	13622	13573	13758	14061	14377	14530	14516	14405	14234	14163	14114	14043	
SRev ST-Coal		355	706	732	747	735	730	679	675	712	752	738	839	893	893	894	888	893	891	894	891	886	894	896	896	892	892	895	894	893	892	889	891	894	892	744	743	745	729	510	486	493	360	357	364	360	350	368	388	
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		222	160	228	490	731	544	465	657	765	646	694	726	625	693	911	1403	1583	1560	1495	1444	1280	1045	881	921	858	904	822	728	454	280	253	303	203	210	218	227	246	197	205	196	204	209	221	220	246	180	197	191	
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 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	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	0	0
Syncon		777	1029	1117	1205	1205	1205	1205	1205	1205	1054	1054	1054	1054	1054	1054	1054	1205	1205	1205	1205	1205	1205	1205	1205	1205	1205	1205	1205	1205	1205	716	716	716	903	815	815	815	815	815	815	628	540	540	353	353	504	1029	1029	1029
Hydro		297	80	147	122	151	124	123	122	166	123	162	294	253	256	257	257	261	269	116	123	105	125	119	122	120	123	123	122	119	385	396	489	328	236	331	336	319	315	386	320	165	292	441	592	576	191	190	211	
S.Reserve Total		1651	1975	2224	2564	2822	2603	2472	2659	2848	2726	2799	2913	2825	2896	3116	3602	3791	3774	3710	3663	3476	3269	3101	3144	3075	3124	3045	2949	2671	2273	2254	2399	2328	2153	2108	2121	2125	2056	1916	1630	1402	1401	1372	1529	1686	1750	1784	1819	