

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,201 MW
Distillate	0 MW
Total TNB	2,201 MW
Total IPP	17,104 MW
Total Co-Gen	0 MW
Total System	23,013 MW

Generation Mix

Type	MWh	Percentage
Hydro	17,964	4.57 %
Gas	57,200	14.55 %
Total TNB	75,164	19.12 %
ST-Coal	208,244	52.98 %
LSS	6,329	1.61 %
Gas	103,355	26.30 %
Total IPP	317,928	80.89 %
Co-Gen	-827	-0.21 %
Total Co-Gen	-827	-0.21 %
Total Generation	392,265	99.80 %
PLTG	-72	-0.02 %
HVDC	-712	-0.18 %
Interconnection	-784	-0.20 %
Net Energy	393,049	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:	15:00:00 Hour
Total Set On Bus	19,752 MW
TNB Generation	4,044 MW
IPP Generation	14,566 MW
Spinning Reserve	1,201 MW
Maximum Demand	18,611 MW
Net Energy	393,049 MWH
Load Factor	88.00 %

Fuel Cost

Total Cost:	92,506,608.69 RM
Cost per Unit	23.51 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	864
Hydro	242
Syncon	598
Thermal	196
Total	1,900

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	167
Total TNB	196
CBPS	43
EMPP	270
NPRI	142
PCGP	79
PLPS	65
SGRI	45
SKSP	53
SPGP	186
Total IPP	884
Total Gas	1,080
Total Gas Required	1,080

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	16294	15515	15002	14471	14096	13886	14198	14163	14399	16067	16872	17415	17358	17213	17934	18611	18534	17942	16970	17198	17687	17506	17041	16559

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Sunday, October 29, 2023 2:27:08 PM
(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Wednesday

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	694	697	696	696	694	695	697	696	695	694	695	695	695	688	694	695	696	695	693	696	696	696	698	695	693	695	686	696	696	698	697																					
JMAH	U002	692	696	693	696	694	697	695	695	697	695	696	696	695	697	696	694	696	696	697	698	695	696	697	695	696	696	696	696	695	696	696																					
JMHE	U002	978	976	978	979	980	977	979	988	901	988	899	900	897	900	902	899	899	963	975	973	975	975	979	974	974	972	978	976	975	977	975	974																				
JMJG	U001	596	605	601	605	629	681	673	672	667	672	668	680	667	672	665	681	666	672	669	673	664	677	688	646	674	667	677	669	672	672	673	671																				
JMJG	U003	671	677	671	679	670	672	672	671	676	674	669	678	674	677	668	678	670	671	672	671	668	668	672	673	645	584	608	672	673	671	673	672	668																			
JMJG	U005	974	975	974	977	976	976	972	895	900	899	896	898	897	897	902	900	900	955	975	976	977	975	974	977	975	977	979	976	973	977	976	975	975																			
PKLG	U003	277	277	277	276	275	277	277	275	276	277	275	274	274	274	278	277	275	276	275	275	274	274	275	275	275	275	275	275	277	277	276	275	275																			
PKLG	U004	273	270	273	271	272	274	275	271	270	273	266	277	274	273	272	273	272	274	274	274	272	270	270	272	272	275	275	272	273	269	273	273	273	271																		
PKLG	U005	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470																			
TBIN	U001	690	688	689	689	689	689	688	688	688	689	691	692	690	691	689	650	650	650	647	651	683	689	693	688	691	689	689	691	690	692	692	689	687																			
TBIN	U002	690	690	690	689	690	688	691	689	689	686	690	689	687	690	691	689	652	652	653	651	652	667	688	692	685	690	691	687	690	688	688	691	686																			
TBIN	U003	681	690	689	692	686	685	687	687	683	686	686	687	687	688	685	683	648	649	647	646	648	670	685	688	687	686	686	687	688	687	688	685	683																			
TBIN	U004	984	982	983	983	984	983	982	938	904	903	904	903	903	902	905	903	902	933	979	982	984	982	984	981	982	983	981	982	982	982	983	981	982																			
Total ST-Coal		8670	8693	8684	8702	8709	8764	8759	8547	8516	8515	8504	8539	8511	8525	8519	8531	8399	8553	8628	8630	8633	8704	8766	8722	8710	8653	8697	8744	8758	8754	8756	8750	8750	8744	8758	8752	8752	8736	8751	8737	8741	8745	8740	8741	8743	8759	8746	8751				
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					
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					
CBPS	BLK2	252	207	213	212	212	210	206	204	211	207	204	207	212	213	291	361	363	351	234	211	212	203	212	211	212	336	360	361	355	361	364	353	353	230	207	243	358	357	357	367	64	261	372	371	372							
EMPP	BLK1	702	700	562	442	415	411	408	402	412	406	405	409	430	408	409	432	561	708	697	707	670	410	453	639	399	564	498	615	641	705	744	751	749	699	701	686	702	699	712	701	693	694	692	713	683	705	651	534				
EMPP	BLK2	703	698	560	438	418	411	408	402	414	406	405	409	436	409	409	435	562	708	695	707	669	707	710	708	683	565	496	615	637	705	739	744	745	699	700	685	703	694	713	694	693	697	691	713	683	702	654	533				
EMPP	BLK3	702	698	562	437	419	411	408	402	413	406	406	409	436	409	408	435	563	707	695	707	669	707	711	708	682	567	498	615	638	705	733	740	741	699	700	685	699	694	714	696	693	697	692	713	683	705	656	534				
GLGR	GT02	95	95	95	95	94	95	95	95	95	94	95	95	94	94	94	95	95	95	95	94	94	94	94	94	95	95	95	95	94	94	95	94	95	94	95	94	95	94	95	95	95	94	95	95	95	95	95					
GLGR	ST1C	41	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42					
NPRI	BLK1	509	312	319	319	319	318	312	310	320	313	310	311	319	313	313	320	320	514	512	515	499	510	513	514	500	514	512	514	514	509	511	504	511	514	500	502	508	506	518	508	507	507	506	514	501	510	505	507				
NPRI	BLK2	442	344	331	331	334	329	323	320	332	325	321	323	336	326	323	334	333	397	518	530	507	524	529	529	507	529	529	529	529	518	527	485	511	529	497	464	515	431	531	518	494	512	512	521	507	387	498	494				
PCGP	PGRG	595	590	602	602	503	400	390	379	402	390	380	391	401	392	388	401	404	399	402	405	377	596	602	602	576	602	602	605	606	599	600	589	602	608	580	581	595	593	610	592	591	591	590	609	577	599	589	591				
PLPS	GT12	119	70	68	69	69	69	68	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69					
PLPS	GT13	61	61	61	61	61	61	60	61	60	61	60	61	61	60	61	61	61	108	109	109	108	138	109	108	108	133	132	133	132	132	132	132	142	142	142	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141		
PLPS	ST18	115	92	91	91	91	91	91	90	91	90	90	91	91	91	91	91	91	91	91	91	112	114	114	115	144	132	132	132	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142		
SGRI	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SGRI	GT13	105	105	105	105	105	105	106	106	105	106	105	105	108	106	105	106	105	106	109	106	106	109	106	106	108	106	106	110	109	106	106	105	105	109	102	105	105	105	105	134	134	134	134	135	135	135	135	135	135	135	135	135
SGRI	ST14	60	60	58	58	57	56	59	61	60	59	59	57	56	53	59	61	61	58	58	58	55	58	62	61	61	59	58	56	58	63	61	54	138	140	138	132	133	131	141	145	146	146	145	145	126	72	71	64				
SKSP	BLK1	218	220	217	218	218	219	218	219	220	218	218	218	220	218	218	221	218	220	218	256	330	219	337	339	338	336	338	337	337	337	338	337	337	338	338	338	337	338	336	338	337	335	337	336	337	337	338	218	219			
SPGP	BLK1	709	710	719	718	720	716	540	494	449	363	360	362	450	594	492	359	360	361	359	360	602	716	719	718	703	709	717	721	720	716	718	711	718	722	704	705	713	713	723	712	711	711	711	718	704	717	712	713				
SPGP	BLK2	701	704	711	712	710	647	550	539	447	443	439	442	451	593	513	361	361	361	361	551	712	716	710	697	703	712	715	714	716	717	708	715	716	701	700	707	705	716	709	705	716	708	706	716	705	716	708	711				
TJGS	GT1A	125	125	126	129	127	127	125	122	127	127	123	126	128	128	127	126	125	126	234	225	228	2																														

Daily MW Generation on Wednesday

[illegible]

Daily MW Generation on Wednesday

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	15	22	31	35	40	42	24	44	54	41	43	55	29	6	3	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0