

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,237 MW
Distillate	0 MW
Total TNB	2,237 MW
Total IPP	17,004 MW
Total Co-Gen	0 MW
Total System	23,243 MW

Generation Mix

Type	MWh	Percentage
Hydro	29,295	7.64 %
Gas	55,445	14.45 %
Total TNB	84,740	22.09 %
ST-Coal	203,514	53.05 %
LSS	5,720	1.49 %
Gas	90,785	23.66 %
Total IPP	300,019	78.20 %
Co-Gen	-1,252	-0.33 %
Total Co-Gen	-1,252	-0.33 %
Total Generation	383,507	99.96 %
PLTG	-142	-0.04 %
Interconnection	-142	-0.04 %
Net Energy	383,649	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:	14:30:00 Hour
Total Set On Bus	19,572 MW
TNB Generation	4,289 MW
IPP Generation	13,778 MW
Spinning Reserve	1,570 MW
Maximum Demand	17,912 MW
Net Energy	383,649 MWH
Load Factor	89.24 %

Fuel Cost

Total Cost:	88,468,873.99 RM
Cost per Unit	22.92 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,162
Hydro	485
Syncon	100
Thermal	176
Total	1,923

Time	Weather	Temperature
Afternoon	Cloudy	30
Morning	Cloudy	27

Gas Usage

Station	(mmscfd)
GLGR	29
SRDG	8
TJGS	162
Total TNB	199
CBPS	42
EMPP	253
NPRI	157
PCGP	79
PLPS	71
SPGP	178
Total IPP	779
Total Gas	979

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Total Gas Required	979
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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	15813	14990	14550	14057	13661	13526	13842	13843	14221	15871	16593	16964	16854	16642	17545	17901	17812	17463	16584	17096	17466	17171	16604	16214

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, December 6, 2023 6:26:19 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	693	695	696	694	694	695	696	695	697	697	696	695	693	697	696	692	695	695	697	696	695	697	696	695	695	697	694	696	696	694	694	695	696	695	696	694	696	693	697										
JMAH	U002	689	694	695	695	696	696	696	696	696	695	696	686	694	695	697	693	696	690	696	696	696	695	697	694	694	694	694	694	694	696	695	697	694	696	693	694	694	699	697	696	694										
JMHE	U001	899	895	895	897	897	896	900	897	900	901	902	899	902	899	898	902	900	896	898	902	901	900	898	898	898	897	899	896	900	899	900	898	897	899	893	896	897	900	901	898	902	900	900	900	899	901	898	900			
JMHE	U002	976	974	973	976	900	900	901	902	900	900	901	900	902	899	899	901	901	905	981	981	980	981	978	981	977	979	979	980	984	979	982	979	981	980	977	979	979	982	981	981	979	981	978	979	984	980	982	983			
JMIG	U001	416	420	410	419	420	423	420	420	422	414	417	420	421	420	403	428	545	608	679	667	669	672	670	671	680	673	673	675	677	671	671	671	675	671	668	671	671	667	672	669	668	668	670	666	671	668	660	616			
JMIG	U002	628	633	629	635	629	629	626	625	629	629	626	635	629	634	636	631	631	619	629	632	629	631	628	633	627	629	632	634	627	632	628	627	627	634	629	628	625	630	630	627	632	629	629	634	629	627	635	634			
JMIG	U004	791	770	748	750	746	744	745	745	749	748	748	749	745	745	750	747	746	749	747	746	746	746	745	747	739	739	744	742	743	744	744	741	744	744	743	743	744	733	727	727	728	727	729	728	725	729	728	728			
JMIG	U005	983	981	983	980	900	898	898	900	903	903	899	900	902	900	900	903	896	904	982	982	983	980	982	981	979	985	981	983	987	979	981	977	977	981	983	978	978	979	977	974	978	979	977	978	977	978	977	979	723		
PKLG	U003	279	277	279	279	279	280	276	274	280	276	277	278	279	278	278	277	278	278	277	277	278	279	278	277	277	278	276	274	276	273	276	275	277	279	279	278	277	277	281	277	279	278	280	281	279	280	280	280	279	279	
PKLG	U004	275	276	274	276	275	275	276	277	272	272	275	271	278	277	277	276	275	274	273	276	275	276	277	274	278	269	273	277	270	273	273	271	272	270	275	273	272	273	275	273	272	272	273	270	277	275	272	279			
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	470	470	470	470	470	470	470	470	470	470	470	470	470	470				
TBIN	U002	688	688	689	689	688	690	686	685	688	689	688	684	687	690	692	687	687	689	687	687	688	690	682	688	688	685	687	689	690	688	688	684	687	687	688	689	688	686	687	688	692	686	690	690	687	688	687	688			
TBIN	U003	685	690	686	687	686	687	687	687	687	687	685	688	688	686	686	685	685	685	687	687	687	685	685	686	686	685	685	687	690	688	686	686	687	686	686	683	685	685	686	686	689	689	685	685	686	688	686	690			
Total ST-Coal		8475	8464	8424	8448	8282	8282	8275	8273	8291	8280	8273	8282	8294	8287	8276	8300	8401	8468	8702	8697	8697	8700	8683	8692	8688	8677	8690	8704	8704	8691	8693	8498	8461	8478	8462	8456	8497	8463	8476	8464	8477	8464	8464	8465	8476	8465	8476	8465	8477		
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	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	0
CBPS	BLK2	211	208	208	209	212	211	204	206	205	208	212	212	212	211	212	212	211	212	212	211	212	211	212	211	207	209	210	212	219	355	361	361	359	358	350	357	210	211	332	369	361	361	354	362	328	212	210	212			
EMPP	BLK1	410	408	412	410	414	416	404	408	406	413	431	453	416	449	413	407	430	500	447	445	471	418	471	485	409	412	411	510	725	710	715	714	716	713	703	708	714	715	713	725	714	715	706	714	714	714	714	639	650		
EMPP	BLK2	410	408	410	409	411	419	404	407	406	412	430	453	419	447	409	407	433	501	447	448	475	417	476	485	409	409	410	513	724	709	716	713	716	713	703	709	714	716	713	726	715	715	705	714	714	714	714	633	650		
EMPP	BLK3	710	687	591	486	412	425	404	407	407	412	431	453	417	452	412	409	418	502	448	458	477	416	474	484	409	408	411	512	725	709	715	714	716	713	703	709	714	716	715	726	715	715	706	714	714	714	701	653			
GLGR	GT02	94	94	94	95	95	93	95	95	94	95	95	94	94	94	94	95	94	95	94	95	94	95	94	95	94	94	94	95	94	94	94	94	94	95	94	95	94	95	94	95	94	95	94	95	95	94	95	94			
GLGR	ST1C	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	42				
NPRI	BLK1	512	508	508	509	511	511	502	506	503	392	395	394	511	509	511	508	512	510	510	509	510	509	510	510	505	507	508	510	316	510	519	520	516	516	505	512	377	520	519	530	521	521	509	520	460	511	510	510			
NPRI	BLK2	526	518	517	516	529	526	503	495	461	476	329	409	527	524	512	477	511	525	525	525	525	524	526	524	505	512	426	463	338	516	526	522	521	510	518	359	527	525	536	527	526	514	527	459	518	515	515				
PCGP	PGRG	601	491	395	392	401	404	378	390	385	398	402	402	402	396	403	398	401	519	603	603	604	602	603	600	590	394	398	600	623	583	601	602	597	593	572	586	600	603	598	623	604	602	582	603	597	605	602	602			
PLPS	GT11	135	135	134	130	131	111	108	108	107	112	111	113	111	112	111	112	111	112	112	112	111	113	111	63	62	62	63	63	63	63	63	63	62	62	62	62	62	62	63	143	143	143	144	143	112	112	110	112	112		
PLPS	GT12	139	138	138	139	139	120	115	115	117	120	119	119	119	119	118	120	119	119	119	119	119	119	119	119	69	70	69	70	69	70	69	69	69	69	69	69	140	151	151	151	151	145	120	119	120	119	120				
PLPS	GT13	131	130	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PLPS	ST18	208	208	208	171	141	131	130	131	131	132	132	133	132	132	132	131	132	132	132	133	133	133	133	132	98	95	95	95	95	95	94	94	95	94	95	94	95	119	146	144	144	145	144	132	132	132	132				
SPGP	BLK1	718	714	711	713	716	602	585	498	391	363	361	362	362	362	501	401	401	400	717	721	721	718	717	716	713	708	715	718	717	725	704	716	714	710	707	701	707	716	502	501	511	500	501	486	501	497	502	500	501		
SPGP	BLK2	714	708	709	711	717	602	586	496	383	362	362	362	362	363	500	403	400	401																																	

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
HTRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HTRG	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
HTRG	HY03	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
HTRG	HY04	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
KNRG	HY01	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY02	21	20	21	21	21	21	21	21	20	21	21	21	21	21	21	20	20	21	20	20	20	21	21	21
KNRG	HY03	20	20	20	20	20	20	20	20	20	20	20	20	20	21	21	21	21	21	21	21	21	21	21	21
KNYR	HY01	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	97	97	97	97	97	97
KNYR	HY02	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	98	97	97	97	97	97
KNYR	HY03	99	98	98	98	99	99	97	96	99	100	99	99	99	97	98	98	99	99	97	97	99	99	99	99
KNYR	HY04	60	59	59	60	86	85	58	58	59	83	94	94	94	81	58	94	94	94	88	94	94	94	94	94
LPIA	HY01	21	21	21	21	21	21	21	21	21	21	21	21	21	21	23	22	22	22	22	22	22	22	22	22
LPIA	HY02	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
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	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	80	81	81	112	112	112	112	112	112
PGAU	HY02	22	22	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	114	113	113	111	110	108
PGAU	HY03	153	43	21	21	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	82	82	83	83	83	82	83
PGAU	HY04	149	80	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	0	0	0
SYPS	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
SYPS	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
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
TMGR	HY01	0	-1	-1	-1	-1	-1	0	0	-1	0	0	0	0	-1	-1	-1	-1	0	80	79	80	80	80	79
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85	86	86	86	85	86
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	80	81	81	80	80
TMGR	HY04	41	42	41	41	41	42	39	41	40	41	41	55	43	41	43	41	50	55	54	41	45	42	45	43
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	98	97	97	98	93	95	98
UJLI	HY02	98	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	99	99	100	95	96	97	99
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		1002	698	575	553	580	558	526	526	525	555	568	581	589	566	553	550	574	579	829	1158	1270	1597	1533	1615
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
BLSL	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

