

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,387 MW
Distillate	0 MW
Total TNB	2,387 MW
Total IPP	19,505 MW
Total Co-Gen	0 MW
Total System	25,894 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,440	4.43 %
Gas	43,567	11.74 %
Total TNB	60,007	16.17 %
ST-Coal	222,046	59.82 %
LSS	5,601	1.51 %
Gas	83,914	22.61 %
Total IPP	311,561	83.93 %
Co-Gen	582	0.16 %
Total Co-Gen	582	0.16 %
Total Generation	372,150	100.25 %
PLTG	160	0.04 %
HVDC	775	0.21 %
Interconnection	935	0.25 %
Net Energy	371,215	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:	15:30:00 Hour
Total Set On Bus	19,114 MW
TNB Generation	3,499 MW
IPP Generation	14,197 MW
Spinning Reserve	1,394 MW
Maximum Demand	17,635 MW
Net Energy	371,215 MWH
Load Factor	87.71 %

Fuel Cost

Total Cost:	92,807,123.86 RM
Cost per Unit	24.94 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	544
Hydro	436
Syncon	509
Thermal	168
Total	1,657

Time Weather Temperature

Afternoon	Hot	34
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	61
Total TNB	90
CBPS	44
EMPP	272
NPRI	141
PCGP	81
SGRI	0
SPGP	196
Total IPP	734
Total Gas	824
Total Gas Required	824

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	15409	14583	13984	13515	13198	12959	12969	13130	13497	15078	16007	16602	16538	16460	17171	17625	17602	17178	16454	16103	16686	16520	16003	15699

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	2400	2500	2600	2700	2800	2900	3000																		
JMAH	U002	707	704	706	703	705	702	706	703	704	705	704	704	708	705	705	704	706	703	707	704	703	706	705	704	705	706	703	704	707	706	704	705	703	704	694	700	702	705	705	703	704								
JMHE	U001	976	975	928	925	899	881	879	879	831	821	822	819	819	821	820	824	818	900	947	976	977	970	975	973	976	972	974	975	976	976	977	977	976	975	975	973	971	975	975	974	975	977	971	974	975	975	977	976	
JMHE	U002	980	979	930	929	908	882	880	873	837	819	820	821	820	818	817	820	818	903	938	973	979	975	985	978	980	977	981	980	979	980	978	979	979	979	976	979	977	978	979	980	979	978	981	977	976	979	981	981	
JMIG	U001	673	672	666	670	668	673	663	667	670	664	678	667	669	663	669	668	662	663	666	668	663	674	676	673	668	671	671	671	672	672	672	672	671	674	673	673	670	673	672	668	668	671	672	672	666	666	665	669	
JMIG	U002	677	677	672	680	674	668	678	672	677	672	672	679	677	676	679	673	679	671	677	673	670	669	672	668	673	665	667	667	672	673	670	669	666	669	671	679	671	668	667	668	667	673	668	679	668	671	672	673	
JMIG	U004	976	978	936	939	928	885	888	887	873	829	827	825	825	825	823	826	827	868	920	975	973	978	974	975	975	974	977	977	979	977	975	977	977	974	968	963	965	966	959	923	904	904	900	901	902	901	901	902	
JMIG	U005	973	976	927	929	918	879	876	881	856	818	820	822	821	820	821	819	876	925	980	977	977	980	977	977	979	977	979	979	982	980	978	978	976	975	976	975	976	977	976	972	974	977	974	972	977	976	977		
PKLG	U006	442	442	443	445	443	446	443	442	442	441	445	444	442	442	442	442	433	451	447	448	449	447	448	447	450	447	448	447	448	444	447	450	448	448	448	448	446	447	445	449	451	445	448	450	450	442			
TBIN	U001	697	699	698	697	698	697	698	696	699	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	698	697	
TBIN	U002	700	699	697	697	696	700	698	696	697	697	697	698	698	698	694	699	700	698	694	700	696	697	700	697	700	697	699	697	697	697	697	697	698	700	693	699	697	697	700	697	701	700	697	696	700	698	698	702	696
TBIN	U003	693	690	698	692	694	695	694	693	695	692	691	692	690	694	693	696	691	693	693	692	695	696	696	694	695	694	695	695	693	697	695	695	697	694	693	696	698	694	695	699	696	695	694	692	693	693	694	693	
TBIN	U004	984	985	933	933	923	885	882	883	866	823	822	824	822	823	823	824	824	895	936	981	983	983	983	982	983	982	981	983	983	982	983	982	985	982	983	982	982	982	982	983	984	979	983	983	982	981	982	984	982
Total ST-Coal		9478	9476	9234	9239	9154	8993	8985	8972	8847	8679	8692	8693	8686	8681	8682	8699	8674	9021	9247	9469	9465	9469	9490	9469	9479	9455	9474	9470	9479	9488	9478	9474	9484	9463	9461	9470	9457	9461	9452	9419	9387	9393	9391	9396	9382	9395	9405	9392	
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
CBPS	BLK2	221	222	222	221	222	221	222	222	222	221	220	222	221	220	221	221	221	221	222	252	281	281	329	348	257	241	250	287	356	222	272	360	359	360	360	360	360	360	360	360	360	360	360	313	221	221	222	221	
EMPP	BLK1	655	410	411	409	410	410	409	409	411	411	410	409	410	409	410	409	410	412	602	709	711	710	709	726	710	710	709	709	711	718	696	710	711	704	671	711	690	709	710	716	709	698	685	680	684	500	630	672	
EMPP	BLK2	654	691	414	409	410	410	409	411	410	411	411	410	409	410	409	410	409	410	412	602	709	711	710	709	726	710	710	709	709	711	718	696	710	711	704	671	711	690	709	710	716	709	698	685	680	684	500	630	672
EMPP	BLK3	707	709	710	709	517	589	409	410	410	411	410	409	409	410	410	409	410	602	709	710	710	709	725	709	709	709	708	711	718	696	710	712	707	670	710	690	710	710	716	708	697	685	685	686	677	708	701		
GLGR	GT02	94	94	95	94	94	94	94	94	94	95	94	94	94	94	94	95	94	95	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	
GLGR	ST1C	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	42	42	42	42	42	42	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	
NPRI	BLK1	521	425	454	343	327	326	327	323	326	326	327	327	327	326	327	328	328	326	325	441	521	521	520	515	505	488	504	513	513	510	497	434	514	505	515	513	520	520	528	518	518	512	509	514	523	519	518		
NPRI	BLK2	531	441	506	369	332	333	333	330	333	332	333	332	332	332	331	333	333	334	332	332	533	529	535	533	530	532	530	529	527	527	519	527	526	518	503	524	519	532	531	539	529	518	514	509	325	374	332	328	
PCGP	PGRG	602	596	604	600	602	603	401	393	399	399	403	402	401	401	397	402	401	402	401	399	405	546	625	608	603	601	599	604	608	619	594	599	596	597	568	598	587	602	601	622	597	596	583	580	587	609	601	596	
SGRI	GT23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	6	0	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	BLK1	714	712	714	715	712	713	592	568	524	530	472	455	483	500	566	502	661	713	716	715	710	716	709	710	704	706	700	701	701	700	704	701	707	712	696	710	704	713	714	719	712	710	701	699	702	714	714	711	
SPGP	BLK2	703	700	703	701	701	702	610	569	529	529	477	457	489	522	567	503	678	700	704	696	695	701	693	691	692	689	686	686	682	685	648	685	698	712	699	704	701	710	709	708	709	703	695	693	694	711	707	704	
TJGS	GT1A	125	125	125	125	125	125	125	125	125	125	125	125	125	125	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137			
TJGS	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TJGS	ST1C	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	
Total CCGT-Gas		5642	5240	5073	4810	4567	4641	4046	3969	3899	3905	3798	3755	3815	3869	3970</																																		

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
LPIA	HY01	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	12	12	12	12	11	11	11
LPIA	HY02	14	14	14	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	14	15	14
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	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	81	81	81	-1	-1	21	21	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	19	82	82	82	-1	-1	112	112	-1
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112	21	21	21	0	0	0	0	0
PGAU	HY04	-1	-1	-1	-1	18	19	-1	-1	19	-1	-1	-1	-1	-1	-1	0	0	0	18	21	0	0	0	0
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	0	0	30	51	51
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	30	50	0	0	0	0	0
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	30	50	0	0	0	50	50	50
SYPS	HY01	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	0	0	17	25	25
SYPS	HY03	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	0	0	3	25	25
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	87	87	86	87	-1	-1	84	84	84
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	87	87	87	87	86	87	35	35	35	35	35
TMGR	HY03	41	41	44	41	45	42	41	41	41	41	41	41	48	47	46	43	77	84	85	43	42	49	41	41
TMGR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	84	84	84	0	0	0	0
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	94	180	181	180	180	172	179	86
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	99	-1	-1	-1	-1	97	92	92	84
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3
UPIA	HY02	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 Hydro		325	281	285	279	256	251	505	464	464	485	466	486	468	469	470	477	499	516	489	504	511	511	571	373
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	1	3	4	9	12	14	15	19	21	23	23	19	15
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	4	5	11	14	19	18	13	22	14	16	18
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	8	12	24	25	27	29	32	32	32
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	17	23	26	32	35	31	37	33	29
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	3	4	14	22	28	28	36	23	24	30	25	19
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	2	15	14	18	12	8	13	12	17	13	13	16
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	4	9	10	11	16	26	36	40	40	46	47	47
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	4	7	9	12	13	23	25	16	28	26	21	30
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	5	12	20	24	18	36	32	24	47	47	23	17
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	14	27	24	31	65	66	77	83	80	65	88	68
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	7	13	17	21	24	35	35	37	43	42	29	16
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	27	27
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	5	14	24	34	59	74	73	78	86	94	100	100	100
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	4	6	8	17	24	26	24	25	16	27	30	26
MALS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	7	12	13	11	26	23	17	7	7	5	11	6
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	2	10	9	13	8	12	10	5	4	6	12	12
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	5	5	40	48	45	7	11	13	10	7	18	33	46
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	8	18	34	55	70	13	28	111	100	100	110	40	104
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	7	13	22	27	33	37	44	31	51	50	48	49
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	4	7	7	8	19	31	31	39	40	45	34	43
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	2	3	8	10	6	3	5	18	17	7	7	8
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	4	16	23	24	30	14	11	11	9	31	30	30
Total LSS		0	0	0	0	0	0	0	0	0	0	39	123	267	375	477	500	575	692	662	733	774	712	754	797
ESTL	ESTL	12	13	18	7	6	8	4	6	10	10	10	14	22	23	22	24	23	20	23	24	21	21	18	18
PCUF	CUFG	3	2	4	3	4	2	4	4	4	3	2	4	4	4	3	3	4	3	3	4	1	4	3	4

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			
PCUF	CUFK	2	3	3	4	5	5	4	3	3	4	4	3	4	4	3	4	6	3	3	5	3	3	2	4	2	2	3	2	3	3	3	4	4	3	3	4	2	3	1	5	4	3	4	4	4	3	3	3	4	3
Total Co-Gen		17	18	25	14	15	15	12	13	17	17	17	19	30	33	28	30	31	27	30	30	28	26	24	24	16	18	26	27	26	22	24	24	26	25	28	29	27	28	30	25	31	28	24	26	31	30	30	26		
Total Gen		15462	15015	14617	14342	13992	13900	13548	13418	13227	13086	12973	12953	12999	13051	13149	13103	13510	14490	15095	15636	16013	16353	16614	16602	16597	16508	16504	16867	17227	17626	17736	17720	17639	17652	17214	16708	16487	15916	16141	16682	16736	16688	16583	16406	16066	16013	15734	15473		
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	0	0	
TIE-HVDC		32	32	32	32	32	32	32	30	30	31	31	30	30	30	30	30	30	31	31	33	33	33	33	33	33	33	33	33	33	33	33	34	34	35	35	36	33	35	35	35	33	33	33	32	32	32	32			
TIE-PLTG		22	20	2	5	-23	6	1	15	0	-20	-17	-18	0	5	-11	-12	-17	15	-13	-9	-24	7	-20	12	26	2	11	19	23	52	77	52	4	-4	1	-11	-3	-31	2	-1	15	43	28	39	29	29	4	-7		
Interconnection		53	52	34	37	8	37	33	45	29	11	14	12	30	36	19	18	13	45	17	21	6	40	12	45	59	35	44	52	56	86	111	85	37	29	36	23	33	4	38	32	50	77	63	72	63	63	35	25		
System Total		15409	14963	14583	14305	13984	13863	13515	13373	13198	13075	12959	12941	12969	13015	13130	13085	13497	14445	15078	15615	16007	16313	16602	16557	16538	16473	16460	16815	17171	17540	17625	17635	17602	17623	17178	16685	16454	15912	16103	16650	16686	16611	16520	16334	16003	15950	15699	15448		
SRev ST-Coal		156	158	400	395	479	544	543	556	541	556	543	544	548	554	549	540	554	544	387	165	169	165	144	165	155	179	160	164	155	146	156	160	150	171	173	164	177	173	182	135	167	161	133	128	142	129	119	132		
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	0
SRev CCGT-Gas		586	988	1155	1418	1661	1587	2182	2259	2329	2323	2430	2473	2413	2359	2258	2363	2023	1552	1301	1057	712	456	471	492	232	334	382	393	312	209	538	364	309	230	408	232	303	473	472	414	486	540	617	684	936	1167	1194	1357		
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	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	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	0
Syncon		1268	1268	1268	1268	1117	1117	865	1167	1167	1016	1167	1167	1167	1167	1167	1167	1016	865	1016	1167	1016	1016	829	930	1117	1029	1029	842	252	252	252	252	252	252	743	743	1117	743	151	0	0	0	151	338	489	615	802			
Hydro		177	173	169	175	299	304	402	141	141	271	139	270	137	137	136	135	128	257	391	267	101	95	95	222	219	125	134	106	217	553	507	618	596	395	733	573	542	246	463	605	679	678	698	664	556	239	275	169		
S.Reserve Total		2187	2587	2992	3256	3556	3552	3992	4123	4178	4166	4279	4303	4265	4217	4110	4205	3872	3369	2944	2505	2149	1732	1726	1708	1536	1755	1705	1692	1526	1160	1453	1394	1307	1048	1566	1712	1765	2009	1860	1305	1332	1379	1448	1627	1972	2024	2203	2460		