

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,472 MW
Distillate	0 MW
Total TNB	2,472 MW
Total IPP	17,665 MW
Total Co-Gen	0 MW
Total System	23,140 MW

Generation Mix

Type	MWh	Percentage
Hydro	24,099	6.58 %
Gas	46,845	12.79 %
Total TNB	70,944	19.38 %
ST-Coal	225,290	61.53 %
LSS	4,932	1.35 %
Gas	64,074	17.50 %
Total IPP	294,296	80.38 %
Co-Gen	557	0.15 %
Total Co-Gen	557	0.15 %
Total Generation	365,797	99.91 %
PLTG	-328	-0.09 %
Interconnection	-328	-0.09 %
Net Energy	366,125	100.00 %

Maximum Demand Record

Date: 5/24/2022	19,183 MW
Date: 5/24/2022	398,523 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	19:30:00 Hour
Total Set On Bus	18,250 MW
TNB Generation	3,790 MW
IPP Generation	13,344 MW
Spinning Reserve	1,098 MW
Maximum Demand	17,132 MW
Net Energy	366,125 MWH
Load Factor	89.05 %

Fuel Cost

Total Cost:	131,117,839.07 RM
Cost per Unit	35.84 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	654
Hydro	436
Syncon	342
Thermal	152
Total	1,584

Time	Weather	Temperature
Afternoon	Rainy	30
Morning	Rainy	24

Gas Usage

Station	(mmscfd)
GLGR	45
TJGS	79
Total TNB	124
CBPS	38
EMPP	178
NPRI	72
PCGP	79
PLPS	60
SPGP	191
Total IPP	617
Total Gas	741

Total Gas Required 741

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	14953	14171	13707	13295	12932	12796	13191	13211	13520	15015	15860	16272	16002	15821	16544	16856	17031	16741	15977	16268	16943	16683	16241	15638

Prepared By: -Select Name-

Checked By: -Select Name-

 Printed on: Wednesday, November 2, 2022 3:06:26 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	706	705	703	704	705	705	706	704	705	704	706	705	706	705	704	705	705	707	705	705	705	706	704	703	705	704	706	705	705	704	705																		
JMAH	U002	705	703	703	706	705	702	703	705	705	703	703	705	706	704	705	704	703	705	706	705	702	706	704	704	705	705	705	703	705	704	705																		
JMHE	U001	980	978	848	855	851	852	849	849	848	850	853	850	851	851	847	852	847	852	926	971	980	980	983	981	975	974	978	980	983	979	981	981	982																
JMHE	U002	751	751	748	752	749	750	750	750	676	511	501	501	501	499	675	749	750	747	745	751	750	753	751	746	747	747	753	752	750	749	750	749	750																
JMJG	U001	668	667	664	664	667	667	668	668	666	667	662	667	667	668	668	667	667	667	673	667	667	677	679	679	676	678	677	676	674	677	677	678	671	678	677	658	678	679	676	668	645	631	610	607	681	671	667		
JMJG	U002	671	667	672	668	667	671	645	593	602	599	606	596	596	598	607	617	629	687	683	684	690	651	631	584	590	591	601	668	681	676	662	669	671	668	668	671	672	668	672	668	666	667	671	668	665	671	667	670	
JMJG	U003	672	671	670	672	673	675	676	662	666	668	666	664	663	673	672	668	672	662	677	669	672	680	668	672	671	671	668	668	670	672	674	668	668	667	671	673	671	669	671	667	668	673	668	673	672	673	668	671	
JMJG	U004	976	973	937	876	853	854	851	854	854	855	854	851	857	856	855	854	862	919	980	977	978	977	977	980	980	980	977	978	976	977	977	977	977	977	977	977	977	975	972	977	975	972	973	976	974	973			
PKLG	U004	277	275	242	166	149	158	160	152	154	157	156	158	160	157	156	156	220	261	275	273	270	268	273	272	273	271	272	275	273	276	272	285	274	272	270	269	269	273	272	268	273	273	275	276	274	276	285		
PKLG	U005	466	466	428	341	267	269	270	269	268	269	269	269	269	269	269	269	330	406	458	468	457	471	468	469	467	467	467	467	470	468	466	468	466	464	464	469	445	446	446	464	466	468	470	464	466	466	469		
PKLG	U006	446	448	410	317	269	269	267	267	269	267	269	269	270	269	269	269	270	331	420	453	453	448	445	446	444	442	444	442	442	444	446	443	446	439	445	446	446	450	449	449	449	445	453	453	450	450	446		
TBIN	U002	701	701	701	702	701	702	699	701	704	703	701	701	701	702	702	701	701	701	702	702	700	702	704	699	701	699	703	705	702	701	701	701	701	704	700	701	702	702	707	702	701	701	702	701	702	701	699	702	
TBIN	U003	700	699	700	700	700	701	702	699	702	701	701	701	701	702	701	701	699	700	700	700	699	700	697	701	698	699	699	701	700	700	700	699	700	701	701	700	699	698	699	700	701	702	702	701	698	698	702		
TBIN	U004	943	940	881	851	851	855	852	852	853	854	854	851	854	855	852	857	853	864	940	939	940	940	939	937	938	940	940	938	942	941	939	942	941	941	940	940	941	941	940	942	940	940	941	943	940	940	941	942	
Total ST-Coal		9662	9644	9307	8974	8807	8830	8798	8725	8746	8671	8512	8491	8496	8513	8507	8699	8779	9033	9459	9667	9692	9644	9639	9583	9583	9579	9597	9670	9687	9668	9658	9660	9663	9646	9662	9665	9641	9654	9878	9885	9870	9859	9847	9833	9823	9909	9870	9901	
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	0	
CBPS	BLK2	200	200	199	201	200	201	202	201	201	201	202	203	205	202	199	203	203	199	197	197	219	230	221	186	185	196	195	204	267	270	271	271	274	266	271	270	201	260	256	250	252	251	248	246	252	238	192		
EMPP	BLK2	421	411	446	505	477	413	456	411	425	417	466	481	452	426	407	408	451	513	500	528	691	711	711	685	676	556	406	556	714	708	711	711	711	687	709	708	679	723	712	705	708	689	710	687	711	686	683		
EMPP	BLK3	420	410	449	512	492	412	467	411	419	417	465	481	450	426	407	408	425	515	497	551	697	711	711	659	655	668	688	679	714	696	710	709	711	710	687	709	708	678	723	712	704	708	688	710	687	711	686	671	
GLGR	GT01	66	66	66	67	67	66	66	66	67	67	68	66	65	66	65	68	64	65	66	65	65	66	66	64	67	66	67	64	67	66	64	66	66	65	65	65	67	66	65	65	66	65	65	67	66	67			
GLGR	GT02	66	66	66	66	66	66	66	67	67	66	66	67	66	66	66	66	66	66	66	65	66	66	66	66	66	66	66	66	66	66	65	65	65	65	65	65	65	65	65	65	65	66	66	66	66	66			
GLGR	ST1C	70	70	71	71	71	70	70	70	70	70	71	70	70	70	70	70	71	70	70	71	70	70	70	70	70	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71		
NPRI	BLK2	423	335	449	508	489	418	464	380	411	349	463	484	445	439	331	329	392	496	502	365	328	457	436	470	409	285	301	299	313	520	522	520	524	526	514	521	522	523	533	524	518	518	518	521	515	521	512	508	
PCGP	PGRG	603	399	393	403	399	402	402	402	401	402	401	400	401	403	392	390	402	400	394	585	591	596	596	560	547	559	587	587	605	599	600	600	602	604	583	598	600	600	621	606	592	597	591	593	585	601	581	577	
PLPS	GT11	128	129	128	129	128	129	129	128	129	128	129	128	129	128	128	129	128	129	129	129	129	128	128	129	128	127	127	116	113	115	116	129	131	116	65	65	65	80	143	141	141	112	115	112	126	129	129		
PLPS	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	71	119	132	136	80	73	71	73	72	150	133	147	117	119	42	0	0	0
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	118	112	113	111	113	124	127	107	66	66	66	142	126	138	108	112	108	43	0	0	
PLPS	ST18	58	58	58	58	58	58	57	58	58	58	58	58	58	58	58	58	58	58	58	59	59	58	57	59	58	59	126	133	133	131	197	207	207	192	144	145	144	213	209	212	196	199	183	119	59	58			
SPGP	BLK1	722	722	646	648	651	650	500	499	398	399	401	399	599	721	717	590	598	598	650	715	718	724	722	691	693	697	716	715	722	719	719	719	723	724	714	724	716	723	706	702	704	599	598	600	598	598	598	599	
SPGP	BLK2	715	716	644	648	650	648	501	498	399	401	401	399	599	716	714	591	598	597	636	715	716	722	720	689	692	696	714	713	722	719	720	713	723	721	715	724	723	723	706	708	703	598	598	599	597	598	597	596	
TJGS	GT1A	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	225	228	228	160	130	115	140	225	225	225	225	225	225	136	136			
TJGS	GT1B	104	102	104	104	103	101	105	10																																									

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	
KNRG	HY02	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	
KNYR	HY01	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
KNYR	HY02	99	99	99	99	99	99	99	99	99	99	99	99	101	101	101	101	101	101	101	101	102	101	101	101	
KNYR	HY03	101	100	100	100	99	99	98	98	98	98	99	99	100	100	100	100	99	99	98	98	98	97	98	98	
KNYR	HY04	100	100	100	100	100	100	100	101	101	100	100	100	100	100	99	99	99	100	100	100	101	100	101	100	
LPIA	HY01	20	20	20	19	19	19	19	19	19	19	19	16	16	16	16	16	17	18	19	19	19	20	20	20	
LPIA	HY02	19	19	19	19	19	19	18	18	18	18	18	16	16	16	17	17	17	18	18	18	18	20	20	20	
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	22	21	21	21	21	21	22	22	22	22	21	21	22	22	22	82	82	22	22	22	71	21	21	
PGAU	HY02	22	22	22	22	22	22	22	22	22	22	22	22	23	23	22	23	23	22	23	23	22	110	21	21	
SIHY	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	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	50	50	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	50	50	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	
TMGR	HY01	79	81	80	-1	-1	-1	-1	-1	-1	-1	-1	80	80	80	79	79	79	79	79	79	79	79	79	79	0
TMGR	HY02	44	48	73	55	53	45	47	46	49	44	45	45	86	62	44	44	83	74	72	77	46	43	45	39	
TMGR	HY03	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TMGR	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	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	191	193	193	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	195	195	-1	
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	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	
Total Hydro		939	853	803	703	700	692	692	690	703	698	700	699	719	694	751	750	794	1162	1160	1103	1073	1070	1072	1200	1062
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	11	21	22	26	25	26	27	27	25	26
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	8	7	10	15	27	33	32	31	37	23
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	14	9	16	7	21	18	26	25	30	32
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	8	9	16	22	22	28	25	23	22
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	14	16	12	32	19	49	36	42	27
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	20	11	8	20	17	8	31	27	18	24	16
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	11	27	35	19	42	40	50	50	30
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	22	27	24	19	30	25	13	30	18
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	5	9	10	17	28	37	32	40	39	38
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	7	11	34	19	15	40	73	47	71	85	76	90
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	22	16	14	23	26	24	27	38	36	45
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	14	3	12	12	20	16	23	29	27
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	4	8	23	23	36	100	100	93	100
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	7	7	11	29	30	30	30	30
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	22	30	30	37	70	92	79	82	89	80	51
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	11	8	14	8	6	14	19	19	29	45	45	66
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	11	16	19	22	19	27	33	28	29
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	5	14	7	6	7	17	28	23	25	31
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	7	12	12	17	15	13	25	29	14
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	8	7	6	7	4	5	9	13	13
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	17	73	128	247	237	318	407	545	640	705	789	783

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																										
ESTL	ESTL	16	17	15	14	14	13	14	11	17	5	4	9	13	14	9	9	10	12	8	17	18	18	14	15	14	15	15	12	14	8	8	14	7	9	13	14	11	7	10	13	14	13	9	14	12	11	9			
KHTC	BLK1	2	2	3	4	3	3	2	2	3	3	1	3	2	5	3	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	3	4	4				
PCUF	CUFG	5	7	5	7	6	6	5	6	5	5	4	5	6	5	4	6	5	5	4	4	4	5	5	5	5	6	6	7	5	5	5	6	5	6	5	6	6	5	4	5	5	5	5	5	5	5				
PCUF	CUFK	5	5	4	5	5	5	4	5	4	6	5	5	5	5	4	5	4	6	3	5	5	4	4	5	4	5	3	5	6	5	5	4	3	4	5	3	6	3	5	4	4	4	4	4	4	6				
Total Co-Gen		28	31	27	30	28	27	25	24	29	19	14	22	26	29	20	24	21	23	15	26	26	27	24	24	23	25	24	26	25	24	18	17	23	16	20	21	26	20	17	18	22	23	22	21	25	25	24	24		
Total Gen		14907	14493	14137	13907	13666	13463	13280	13014	12906	12748	12797	12833	13163	13347	13219	13180	13505	14442	15026	15460	15819	16058	16176	16281	16008	15811	15760	16196	16465	16870	16858	16947	17032	17100	16734	16284	15976	15741	16282	17152	16961	16875	16674	16554	16277	16033	15637	15429		
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				
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				
TIE-PLTG		-46	-19	-34	-28	-41	-29	-15	-29	-26	-33	1	1	-28	26	8	7	-15	-46	11	-18	-41	-72	-96	-20	6	-17	-61	-60	-79	-8	2	-22	1	5	-7	34	-1	30	14	20	18	45	-9	-8	36	-10	-1	0		
Interconnection		-46	-19	-34	-28	-41	-29	-15	-29	-26	-33	1	1	-28	26	8	7	-15	-46	11	-18	-41	-72	-96	-20	6	-17	-61	-60	-79	-8	2	-22	1	5	-7	34	-1	30	14	20	18	45	-9	-8	36	-10	-1	0		
System Total		14953	14512	14171	13935	13707	13492	13295	13043	12932	12781	12796	12832	13191	13321	13211	13173	13520	14488	15015	15478	15860	16130	16272	16301	16002	15828	15821	16256	16544	16878	16856	16969	17031	17095	16741	16250	15977	15711	16268	17132	16943	16830	16683	16562	16241	16043	15638	15429		
SRev ST-Coal		117	135	405	472	474	462	493	557	540	619	635	549	551	530	529	595	509	452	304	112	87	135	140	196	196	200	182	109	92	111	121	119	116	133	117	114	138	125	131	144	159	170	182	196	206	120	159	128		
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				
SRev CCGT-Gas		1322	1635	1600	1400	1469	1686	1835	2025	2172	2240	2029	1979	1678	1489	1659	1910	1762	1504	1455	1173	890	690	704	766	965	1182	1327	1114	875	647	604	569	306	277	484	688	812	996	741	284	363	291	440	379	550	450	568	719		
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		500	500	626	714	714	714	714	714	714	714	714	714	714	714	626	626	626	374	374	374	374	374	374	374	374	374	374	500	626	500	626	313	439	439	500	313	439	626	626	626	439	126	126	126	126	126	313	626	626	626
Hydro		418	417	317	329	332	340	340	342	353	358	356	357	337	362	393	394	350	408	410	467	497	500	498	370	508	444	378	438	217	298	234	231	314	381	360	330	361	329	413	544	644	552	591	657	570	345	367	368		
S.Reserve Total		2357	2774	3059	3026	3100	3313	3493	3749	3866	4018	3821	3686	3367	3182	3294	3612	3334	2738	2543	2126	1848	1699	1716	1706	2043	2326	2513	2161	1810	1369	1398	1358	1236	1104	1400	1758	1937	2076	1724	1098	1292	1139	1339	1358	1639	1541	1720	1928		