

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,485 MW
Distillate	0 MW
Total TNB	2,485 MW
Total IPP	17,191 MW
Total Co-Gen	0 MW
Total System	22,885 MW

Generation Mix

Type	MWh	Percentage
Hydro	24,714	6.91 %
Gas	60,375	16.89 %
Total TNB	85,089	23.80 %
ST-Coal	208,044	58.20 %
ST-Gas	1,626	0.45 %
LSS	3,255	0.91 %
Gas	58,406	16.34 %
Total IPP	271,331	75.90 %
Co-Gen	489	0.14 %
Total Co-Gen	489	0.14 %
Total Generation	356,909	99.84 %
PLTG	87	0.02 %
HVDC	-667	-0.19 %
Interconnection	-580	-0.16 %
Net Energy	357,489	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:	16:00:00 Hour
Total Set On Bus	18,202 MW
TNB Generation	4,481 MW
IPP Generation	12,446 MW
Spinning Reserve	1,253 MW
Maximum Demand	16,960 MW
Net Energy	357,489 MWH
Load Factor	87.83 %

Fuel Cost

Total Cost:	126,047,293.34 RM
Cost per Unit	35.31 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	368
Hydro	770
Syncon	251
Thermal	141
Total	1,530

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
TJGS	179
Total TNB	179

CBPS	52
NPRI	157
PCGP	88
PGLA	58
PLPS	37
SPGP	209
PKLG	17
Total IPP	617
Total Gas	796

Total Gas Required	796
---------------------------	------------

Alternate Fuel Usage

Station	(mmcsfd)
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	14214	13691	13205	12775	12473	12327	12481	12774	13380	15012	15771	16288	16215	15943	16557	16881	16960	16611	15727	15812	16173	15825	15331	14856

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, January 4, 2023 10:47:33 AM

(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	213	214	213	213	214	214	213	212	213	213	214	213	213	214	214	273	426	704	712	704	704	707	701	708	705	705	705	704	706	706	705	706	707	706	705	703	707	706	704	705	705	711	706	704	705	705	703		
JMAH	U002	265	213	214	213	214	214	213	214	212	213	214	213	214	214	213	213	215	413	405	635	704	706	706	706	703	702	707	705	704	707	705	706	704	706	706	705	705	706	701	706	703	707	703	704	705	701	707	371	
JMHE	U001	978	898	904	900	900	851	847	848	850	847	850	852	849	850	849	849	850	955	981	976	978	978	981	978	973	980	978	977	980	978	978	980	980	979	974	976	979	982	981	980	977	978	977	978	979	981	976	979	
JMHE	U002	979	896	897	900	900	852	847	851	850	849	849	852	849	860	849	852	851	976	980	981	981	983	981	981	978	983	983	978	980	979	980	980	980	978	970	975	978	980	979	976	977	976	976	974	977	978	974	974	
JMJG	U001	600	684	677	675	675	673	680	678	677	677	676	681	678	677	677	678	673	682	678	679	677	673	676	677	678	679	680	681	677	674	677	679	675	675	674	677	679	679	673	677	677	677	633	601	644	677			
JMJG	U002	672	674	673	673	677	674	673	673	677	673	675	674	676	679	671	678	675	676	672	675	678	678	674	677	676	676	675	673	676	673	672	674	672	677	677	675	674	677	676	675	675	673	673	676	675	675	674	669	
JMJG	U003	671	666	673	676	672	672	672	673	671	672	672	671	668	673	672	672	672	676	671	672	679	668	672	674	672	675	671	674	668	671	672	671	679	668	677	671	670	675	673	671	615	598	589	671	685	680	678	685	
JMJG	U005	978	900	900	902	900	852	851	850	848	852	851	850	853	851	851	852	905	981	978	982	982	980	979	980	981	981	977	978	980	980	983	977	978	980	977	975	978	981	979	977	976	981	976	977	976	979	979	980	
PKLG	U004	150	161	150	151	157	150	155	154	153	149	150	154	156	158	155	154	170	155	148	167	210	206	211	206	250	270	274	274	278	275	274	275	268	274	273	274	274	273	270	266	268	272	274	276	273	272	271	236	
PKLG	U005	271	268	269	267	269	269	268	268	270	269	269	268	268	269	268	269	268	269	296	353	412	459	470	468	474	470	466	443	470	458	470	459	464	485	467	473	474	467	463	468	469	466	456	466	472	459	405		
PKLG	U006	264	263	206	187	219	264	264	264	160	228	264	265	266	264	265	268	271	267	269	318	362	376	434	447	446	449	443	442	454	442	445	442	443	444	444	443	446	449	449	449	450	449	446	449	450	450	386		
TBIN	U001	698	698	600	560	700	484	240	210	210	210	210	210	210	210	210	210	300	550	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		
TBIN	U002	700	700	700	700	700	439	228	211	212	212	212	212	212	211	213	336	525	666	700	700	700	698	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	698	700	700	700	700	700		
TBIN	U003	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670		
Total ST-Coal		8109	7905	7746	7687	7867	7278	6821	6776	6673	6734	6776	6785	6782	6799	6777	6915	7320	8361	8823	9160	9378	9434	9545	9564	9600	9641	9630	9620	9616	9626	9615	9625	9615	9619	9632	9610	9619	9646	9628	9614	9554	9554	9537	9609	9590	9562	9585	9133	
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		
PKLG	U001	38	53	69	85	107	130	144	144	159	165	165	166	166	166	166	184	186	143	143	144	144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	32	32	38	38	56	75	95	0	0	0	0
Total ST-Gas		38	53	69	85	107	130	144	144	159	165	165	166	166	166	166	184	186	143	143	144	144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	32	32	38	38	56	75	95	0	0	0	0
CBPS	BLK2	361	357	361	307	198	294	369	361	358	353	349	353	357	361	363	361	361	355	360	357	364	369	361	361	355	360	357	361	361	360	360	361	357	348	359	352	352	252	275	361	350	353	347	350	306	197	194	201	
NPRI	BLK1	515	509	516	516	511	529	527	516	511	505	500	503	511	515	519	515	517	508	513	509	519	527	517	515	510	529	510	515	515	516	515	512	499	515	503	505	515	523	516	501	505	498	500	508	435	322	399		
NPRI	BLK2	516	511	517	521	417	539	538	527	500	388	383	387	377	527	530	527	527	487	472	509	521	527	518	517	511	517	511	516	518	516	516	517	511	499	516	503	503	398	521	517	502	505	498	501	509	415	319	400	
PCGP	PGRG	599	592	602	602	592	629	625	601	593	580	570	578	594	601	610	600	602	585	598	590	608	625	603	601	590	600	592	602	602	602	601	594	567	598	576	578	604	616	602	572	577	564	571	588	595	585	603		
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	129	213	134	133	132	133	132	133	133	133	133	0	0	0	0		
PGLA	GT12	180	142	142	143	143	144	144	143	143	144	143	144	144	143	144	225	226	224	226	192	198	227	225	222	224	147	148	148	224	223	227	214	205	214	135	134	133	134	133	134	133	134	115	206	233	233	229		
PGLA	ST10	92	87	87	86	86	86	86	85	85	85	85	85	85	85	85	115	114	113	113	111	104	116	115	116	115	89	88	88	115	116	115	110	99	236	178	180	180	180	180	181	181	181	96	0	89	115	11		

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																									
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	8	24	39	35	29	13	44	93	86	44	29	14	9	4	3	3	3	3	2	2	2	2	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	1	5	12	13	25	29	33	32	46	38	43	17	43	23	15	21	7	3	0	0	1	4	2	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	1	5	11	18	12	14	20	13	13	17	18	19	21	25	19	18	19	11	9	6	4	1	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	0	0	0	0	0	0	0	0	0	0	0	0	0	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	5	7	13	28	28	20	11	23	13	9	2	2	2	1	2	1	2	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total LSS		0	0	0	0	0	0	1	0	0	0	0	0	0	7	35	126	229	352	378	417	471	484	457	519	493	449	432	386	273	241	222	208	153	101	66	25	0	0	0	0	0	0	0	0	0	0	0	0	
ESTL	ESTL	14	2	16	17	17	14	1	19	18	18	9	17	6	16	9	15	4	16	16	17	0	11	16	1	14	15	13	0	12	0	12	0	13	11	1	12	15	15	8	13	15	13	7	19	16	0	2	15	
KHTC	BLK1	1	1	1	3	3	3	2	2	3	1	3	2	3	3	3	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	4	2	6	6		
PCUF	CUFG	3	3	4	3	4	3	5	4	2	4	2	2	4	4	3	2	4	5	4	4	3	4	5	3	3	5	3	4	5	4	4	3	4	4	3	4	4	3	4	2	5	4	4	3	3	4			
PCUF	CUFK	4	3	4	3	2	4	3	4	3	4	3	3	4	3	3	2	4	3	4	3	3	4	3	3	4	3	4	3	4	4	3	3	4	4	3	4	4	5	4	5	3	5	3	4	2	5			
PFTZ	PFTZ	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	2	2	2	1	2	1	1	1	0	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	
Total Co-Gen		22	9	25	26	26	24	11	29	26	27	18	24	16	28	20	25	12	25	29	26	10	19	25	10	23	23	20	10	18	9	22	8	22	20	7	20	24	22	17	20	25	23	17	34	28	10	14	31	
Total Gen		14202	13885	13636	13407	13185	12921	12725	12620	12453	12359	12333	12341	12443	12663	12681	12914	13330	14326	14913	15321	15652	15954	16247	16328	16205	15980	15906	16153	16556	16800	16862	16910	16949	16895	16657	16076	15701	15555	15801	16360	16182	16072	15821	15601	15327	15078	14876	14572	
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	
TIE-HVDC		-28	-29	-29	-29	-29	-29	-29	-28	-29	-31	-29	-30	-28	-30	-27	-31	-28	-31	-28	-27	-29	-29	-28	-28	-29	-29	-28	-28	29	-29	-30	-30	-30	-29	-29	-31	-31	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	
TIE-PLTG		16	27	-27	21	9	-18	-21	30	8	21	34	-5	-8	-12	-62	-13	-20	9	-68	-43	-88	-84	-13	-22	19	-23	-9	-19	28	37	9	-26	18	84	76	88	3	-16	20	17	39	12	25	25	24	12	49	14	
Interconnection		-12	-2	-55	-7	-20	-48	-50	1	-20	-8	6	-33	-38	-40	-93	-42	-50	-19	-99	-71	-119	-113	-41	-51	-10	-51	-37	-48	-1	9	-19	3	-11	53	46	58	-26	-45	-11	-13	9	-17	-4	-4	-4	-17	20	-15	
System Total		14214	13887	13691	13414	13205	12969	12775	12619	12473	12367	12327	12374	12481	12703	12774	12956	13380	14345	15012	15392	15771	16067	16288	16379	16215	16031	15943	16201	16557	16791	16881	16907	16960	16842	16611	16018	15727	15600	15812	16373	16173	16089	15825	15605	15331	15095	14856	14587	
SRev ST-Coal		435	608	701	744	606	897	1134	1164	1164	1167	1168	1165	1166	1161	1171	1162	1075	567	299	282	206	184	107	88	52	61	108	118	122	112	123	113	123	119	106	128	119	92	110	124	94	94	111	39	58	86	153	294	
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		355	305	472	637	1039	557	165	240	293	452	509	518	410	249	217	137	130	223	192	225	162	44	120	289	469	548	558	277	145	146	144	342	316	323	414	760	984	1114	857	508	534	668	897	748	818	1030	1260	1072	
SRev ST-Gas		32	33	34	35	36	38	38	39	40	40	40	39	39	39	39	41	41	39	39	39	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	32	32	32	33	33	35	35	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		500	500	500	500	500	500	500	500	500	500	500	500	500	588	588	588	588	588	588	588	126	126	126	126	500	500	500	313	126	126	126	126	126	126	401	588	588	588	214	214	214	214	214	588	588	588	676	676	
Hydro		671	557	512	534	556	512	513	515	688	691	693	692	687	657	641	655	668	665	638	655	615	903	755	682	866	741	765	735	813	922	751	700	688	765	819	668	543	642	605	764	861	853	871	860	624	615	614	496	496
S.Reserve Total		1993	2003	2219	2450	2737	2504	2350	2458	2685	2850	2910	2914	2802	2606	2568	2583	2502	2082	1756	1789	1610	1257	1108	1185	1513	1850	1931	1630	1393	1306	1144	1281	1253	1333	1465	1957	2265	2468	2192	1642	1736	1862	2128	1896	2088	2319	2615	2538	