

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,774 MW
Distillate	0 MW
Total TNB	1,774 MW
Total IPP	18,203 MW
Total Co-Gen	0 MW
Total System	23,685 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,420	3.86 %
Gas	66,466	17.80 %
Total TNB	80,886	21.66 %
ST-Coal	191,730	51.34 %
LSS	7,645	2.05 %
Gas	92,357	24.73 %
Total IPP	291,732	78.11 %
Co-Gen	696	0.19 %
Total Co-Gen	696	0.19 %
Total Generation	373,314	99.96 %
PLTG	1,547	0.41 %
EGAT	6	0.00 %
HVDC	-1,705	-0.46 %
Interconnection	-152	-0.04 %
Net Energy	373,466	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:	16:30:00 Hour
Total Set On Bus	18,767 MW
TNB Generation	3,910 MW
IPP Generation	13,755 MW
Spinning Reserve	1,080 MW
Maximum Demand	17,721 MW
Net Energy	373,466 MWH
Load Factor	87.81 %

Fuel Cost

Total Cost:	103,754,130.12 RM
Cost per Unit	27.79 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	381
Hydro	391
Syncon	415
Thermal	331
Total	1,518

Time	Weather	Temperature
Afternoon	Sunny	32
Morning	Cloudy	25

Gas Usage

Station	(mmscfd)
GLGR	36
SRDG	10
TJGS	187
Total TNB	232
EMPP	302
NPRI	147
PCGP	90
PLPS	2
SKSP	50
SPGP	210
Total IPP	801
Total Gas	1,033
Total Gas Required	1,033

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	15359	14546	13925	13491	13250	13074	13157	13362	13617	15160	15829	16178	16104	15935	16846	17420	17609	17419	16419	16345	17475	17303	16772	16482

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 4, 2023 9:12:04 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																									
JMHE	U001	976	973	850	850	852	851	850	852	850	853	855	851	849	849	851	850	976	979	971	973	982	980	982	977	979	978	982	980	980	979	981	977	975	974	976	973	976	975	972	973	977	970	976	969	972	974	972		
JMHE	U002	978	973	852	849	856	849	850	849	850	852	853	851	849	851	849	852	930	978	979	977	981	980	982	979	979	977	981	980	979	981	980	976	981	978	980	978	976	974	970	973	976	972	976	973	976	975	973		
JMJG	U001	677	673	679	678	681	674	677	677	677	677	679	677	677	678	681	598	617	672	683	678	674	678	678	679	678	676	677	679	677	677	673	677	678	678	673	677	678	677	672	677	677	679	679	677	678	681	678		
JMJG	U002	679	679	682	673	679	682	678	677	682	680	679	680	679	682	679	656	672	673	678	673	675	604	547	557	557	568	615	639	676	679	683	680	678	672	674	678	672	674	667	674	593	611	677	677	685	678	678	679	
JMJG	U003	678	666	677	679	673	677	678	679	678	677	684	678	673	678	676	679	678	679	673	679	675	688	673	674	673	675	672	674	673	677	678	673	672	676	678	672	673	672	677	678	673	677	672	675	673	681	682	677	
JMJG	U004	977	973	927	870	854	854	852	858	858	857	856	854	860	857	858	857	857	906	962	977	977	974	978	977	974	978	974	971	975	975	975	973	977	975	976	972	974	974	973	621	628	685	745	803	862	916	952	974	
JMJG	U005	977	976	848	845	850	861	854	852	848	852	848	852	852	850	848	848	855	942	977	974	973	972	977	976	979	975	973	974	977	972	976	978	974	973	974	976	975	976	974	977	974	976	982	978	975	976	974	975	
PKLG	U003	264	265	185	165	157	149	148	151	150	151	151	150	151	150	151	150	222	257	256	263	265	262	264	263	263	262	262	262	262	263	262	264	264	263	263	263	262	263	262	263	262	263	264	263	264	263	263		
PKLG	U004	272	271	230	162	143	146	143	146	151	147	147	148	147	147	147	147	212	245	269	277	279	276	279	279	278	275	276	274	278	274	275	273	269	270	269	272	275	277	272	270	272	275	272	267	271	273	271		
PKLG	U006	268	269	268	268	269	267	260	258	264	267	268	271	269	269	267	269	267	267	268	268	269	268	268	269	268	268	269	269	269	269	268	269	269	269	269	268	268	269	268	269	268	269	269	269	269	269	269	269	
TBIN	U001	209	210	209	209	210	209	209	208	210	212	211	209	209	210	209	210	211	209	206	210	210	209	211	209	210	210	242	427	659	699	700	698	699	695	698	699	697	698	699	697	699	696	697	690	696	701	680		
TBIN	U003	216	212	212	211	209	210	209	210	210	211	210	211	209	210	210	208	211	210	210	211	209	210	210	209	211	209	212	211	240	338	401	481	621	711	0	0	0	0	0	0	0	0	0	0	0	0	0		
TBIN	U004	983	983	905	852	853	852	853	853	852	853	853	854	853	852	853	853	927	983	982	982	982	983	984	984	982	980	983	984	984	983	982	981	982	982	981	981	983	983	982	983	982	983	983	981	982	983	983		
Total ST-Coal		8154	8123	7524	7311	7286	7281	7261	7268	7275	7289	7291	7292	7285	7280	7279	7176	7217	7828	8102	8122	8136	8092	8021	8044	8029	8042	8071	8144	8365	8632	8770	8832	8898	9034	9122	8407	8405	8411	8407	8048	7972	8063	8184	8248	8284	8359	8405	8394	
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	
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
EMPP	BLK1	710	710	710	710	710	710	422	375	375	375	375	375	375	500	710	710	710	710	710	710	710	710	714	705	710	707	709	709	710	712	710	706	705	697	709	708	709	712	709	752	752	747	692	684	677	693	682		
EMPP	BLK2	712	712	712	712	712	712	712	591	591	524	454	474	463	710	710	710	710	710	710	710	710	710	710	713	705	710	706	709	709	712	710	711	706	705	698	709	707	709	711	709	753	752	749	693	684	676	693	682	
EMPP	BLK3	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	709	706	708	709	709	711	710	707	704	690	709	710	709	710	709	738	742	745	695	691	682	696	687	
GLGR	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	57	91	105	105	104	104	105	104	105	105	70		
GLGR	GT02	94	93	93	93	94	93	93	94	93	94	93	93	93	94	93	94	93	93	92	93	92	92	92	92	93	93	107	107	107	108	108	108	108	108	94	105	106	89	104	107	107	107	107	107	107	73			
GLGR	ST1C	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	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41			
NPRI	BLK1	483	503	527	527	525	434	310	325	332	323	317	325	352	409	338	334	323	413	461	507	505	515	517	515	508	512	509	514	514	514	513	512	508	506	502	511	515	516	515	514	520	521	523	510	511	504	515	509	
NPRI	BLK2	482	496	527	403	308	293	286	322	330	320	312	322	353	406	334	335	321	407	387	509	506	517	517	517	510	514	511	515	516	514	517	516	509	505	503	515	515	517	519	517	526	526	523	511	513	505	515	511	
PCGP	PGRG	584	587	606	601	602	574	558	588	603	585	571	590	605	615	602	603	585	588	602	585	585	601	605	601	586	597	592	602	603	600	599	603	589	588	573	602	601	604	610	701	757	802	788	694	585	569	589	581	
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	0	0	0	0	0	0	0	0	0	0	0	0	44	43	43	43	44	87	138			
PLPS	ST18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	36	58			
SKSP	BLK1	221	220	222	265	217	219	218	218	220	218	221	214	224	216	218	218	219	219	219	220	215	217	219	295	219	219	219	235	336	339	340	334	336	336	334	273	218	225	246	336	349	344	346	335	335	333	333	333	
SPGP	BLK1	718	720	720	721	720	721	720	719	719	720	720	719	720	720	719	720	719	718	717	719	720	719	720	718	718	719	718	719	720	720	719	719	720	719	720	720	720	721	719	718	719	718	720	721	719	718			
SPGP	BLK2	717	719	719	719	719	719	719	717	717	718	718	718	718	720	717	718	717	717	717	716	718	718	718	714	708	707	717	711	709	710	709	707	710	707	710	710	710	714	716	717	718	718	719	717	719	720	717	719	
TJGS	GT1A	167	123	125	128	128	119	111	127	127	124	121	127	126	126	128	129	127	125	125	126	144	187	214	228	177	125	125	231	224	223	224	225	226	225	218	224	225	196	231	224	232	231	233	223	224	216	226	226	
TJGS	GT1B																																																	

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	
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	69	69	68	68	68	-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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
KNRG	HY01	23	23	23	24	24	24	24	24	24	24	24	23	23	23	23	23	23	23	22	35	21	22	22	22	0
KNRG	HY02	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	22	35	23	23	23	23	0
KNRG	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	36	22	22	22	21	21
KNYR	HY01	59	60	60	60	60	59	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	100	60	60	60	99	99	100
KNYR	HY02	59	60	72	99	64	60	60	61	64	60	60	60	80	100	68	64	61	61	65	61	60	66	69	61	60
KNYR	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	
KNYR	HY04	59	60	60	61	61	60	59	60	60	59	60	61	60	61	60	59	60	60	60	101	61	61	61	101	102
LPIA	HY01	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	11	10	10	10	10	10	0
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	17
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	3
SIHY	HY01	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	0
SIHY	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	0
SIHY	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	0
SYPS	HY01	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY03	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY04	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	86	86	85	83	87
TMGR	HY03	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	40	40	86	86	61	43	43	43	43	43	43	43	42	39	83	39	77	83	84	79	50	41	41	65	47
UJLI	HY01	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	90	92	92	87	140	88
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	182	183	91
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	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	5
Total Hydro		462	466	524	445	385	362	359	301	304	301	300	300	321	341	308	305	298	296	345	297	334	347	352	337	308
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	0	0	0	0	0	0	0	0	0	0	0	0
BKLS	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
BSLS	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
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	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	0
GELS	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
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	0
JELS	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
JSLS	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
KDLS	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
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	0
KMLS	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
KNLS	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
KRLS	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
MALS	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
MCLS	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
MNLS	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
PKLS	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
SPLS	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

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					
SSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	10	17	24	30	35	39	42	43	45	44	42	46	44	42	38	32	29	19	11	9	2	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	2	5	8	11	15	19	11	7	25	26	24	26	26	23	23	19	18	14	12	7	5	2	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	0	0	5	11	14	25	30	30	23	30	30	30	30	30	30	30	30	30	30	27	20	11	5	1	0	0	0	0	0	0	0	0	0	0	0	0		
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	86	245	408	576	707	801	872	949	973	1012	1000	989	993	946	951	811	814	672	613	423	283	142	28	0	0	0	0	0	0	0	0	0	0	0	0
ESTL	ESTL	22	21	19	14	15	17	16	1	13	17	15	12	21	16	20	23	19	19	17	14	15	16	13	13	14	10	10	15	13	13	10	12	14	9	9	10	10	10	13	22	21	22	22	23	23	23	18	16				
KHCT	BLK1	3	1	2	4	2	1	3	3	2	2	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PCUF	CUFG	4	4	2	4	3	4	4	4	5	4	5	4	3	2	4	3	4	4	4	3	3	2	3	4	3	3	4	4	3	3	4	3	3	4	4	4	3	5	3	5	5	4	4	5	4	3	4	3	4			
PCUF	CUFK	2	2	1	3	3	4	3	3	4	3	5	3	2	2	2	1	1	3	2	3	4	2	5	3	3	3	3	5	5	2	2	4	3	3	2	4	1	2	4	2	3	4	2	3	3	3	2	4				
PFTZ	PFTZ	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6			
Total Co-Gen		37	34	30	31	29	32	32	17	30	32	35	28	32	26	32	33	30	32	29	27	28	27	26	25	27	22	22	30	28	24	22	27	27	27	22	22	25	22	22	29	34	35	37	34	36	37	36	29	30			
Total Gen		15317	14975	14516	14138	13909	13733	13541	13300	13195	13160	13062	13034	13140	13269	13323	13354	13627	14567	15097	15386	15772	16050	16140	16360	16066	16006	15924	16404	16831	17298	17468	17455	17568	17687	17474	16949	16493	16283	16376	17075	17481	17321	17357	17075	1681							