

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,288 MW
Distillate	0 MW
Total TNB	2,288 MW
Total IPP	18,051 MW
Total Co-Gen	0 MW
Total System	24,050 MW

Generation Mix

Type	MWh	Percentage
Hydro	23,128	6.15 %
Gas	67,228	17.88 %
Total TNB	90,356	24.04 %
ST-Coal	182,086	48.44 %
LSS	5,740	1.53 %
Gas	96,998	25.80 %
Total IPP	284,824	75.77 %
Co-Gen	707	0.19 %
Total Co-Gen	707	0.19 %
Total Generation	375,887	99.99 %
PLTG	688	0.18 %
HVDC	-720	-0.19 %
Interconnection	-32	-0.01 %
Net Energy	375,919	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	18,781 MW
TNB Generation	5,005 MW
IPP Generation	12,992 MW
Spinning Reserve	760 MW
Maximum Demand	17,950 MW
Net Energy	375,919 MWH
Load Factor	87.26 %

Fuel Cost

Total Cost:	83,813,137.05 RM
Cost per Unit	22.44 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	519
Hydro	377
Syncon	450
Thermal	205
Total	1,551

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	49
TJGS	189
Total TNB	238
CBPS	53
EMPP	310
NPRI	81
PCGP	88
PLPS	43
SKSP	49
SPGP	209
Total IPP	833
Total Gas	1,071

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Total Gas Required	1,071
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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	14972	14228	13759	13323	13051	12955	13235	13271	13806	15444	16290	16766	16748	16555	17295	17724	17819	17583	16493	17026	17278	17158	16597	16088

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, December 2, 2022 3:55:11 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	U002	702	396	227	211	213	213	212	213	213	214	213	214	214	306	579	705	710	705	705	701	708	580	505	504	504	503	505	506	503	504	504	486	504	503	505	502	505	503	503	654	701	706	706	703	706				
JMHE	U001	973	974	973	911	851	850	849	851	849	850	850	848	850	849	851	850	918	978	969	972	970	973	975	975	973	971	973	973	975	973	972	972	970	972	974	969	972	969	971	972	972	973	976	973	975	974	975		
JMHE	U002	978	975	977	913	846	848	849	850	851	848	850	849	850	849	851	849	930	970	970	969	969	971	976	974	975	972	976	973	974	973	973	969	974	973	969	973	967	973	971	970	974	972	972	975	975	975			
JMJG	U001	644	647	651	646	666	676	669	665	644	598	596	598	616	651	648	650	645	657	646	649	649	651	645	646	645	643	648	651	644	650	648	650	646	640	635	651	673	672	671	672	673	672	668	662	664	596	593	643	
JMJG	U002	670	682	672	671	677	678	673	675	676	676	675	673	678	672	674	676	678	673	673	677	672	674	676	678	675	672	673	673	673	678	672	677	672	677	673	674	677	677	664	680	669	678	676	662	668	671	669	672	
JMJG	U003	671	672	669	665	675	671	668	669	673	670	671	672	674	669	677	662	678	666	668	671	668	669	672	677	673	668	673	673	671	658	672	667	677	667	669	672	673	673	678	661	671	668	671	673	677	588	603	657	
JMJG	U005	974	979	978	923	841	837	831	853	848	851	847	852	848	850	846	853	869	932	982	983	975	976	976	976	975	977	974	977	979	976	972	972	960	976	975	980	977	979	976	982	976	980	973	978	977	974	976	973	
PKLG	U003	150	152	151	151	150	150	150	151	150	152	150	151	150	151	151	161	236	274	280	278	280	279	278	279	277	279	275	278	277	277	277	277	278	278	277	277	277	277	276	276	275	278	277	277	237				
PKLG	U005	269	271	269	268	269	268	269	270	267	269	270	269	269	267	269	269	272	347	436	470	468	467	460	458	460	460	462	464	467	466	466	470	398	360	395	433	468	464	467	468	464	466	473	467	468	466	468	431	
PKLG	U006	269	269	269	270	269	269	269	267	269	269	267	270	268	268	268	269	278	360	437	445	446	445	448	448	448	442	445	445	446	446	445	443	446	449	448	446	449	448	450	446	448	447	449	449	449	449	449	413	
TBIN	U001	612	330	211	212	212	213	211	212	211	213	212	212	212	211	213	213	214	211	212	213	213	211	212	292	357	543	700	700	698	701	699	698	702	699	697	699	695	700	693	700	699	699	698	698	698	453			
TBIN	U002	361	242	213	214	214	214	213	214	214	214	214	213	213	214	216	215	214	216	213	335	558	675	701	701	701	702	701	702	705	695	701	701	707	700	698	708	701	698	704	699	701	701	701	700	703	701	698		
TBIN	U003	212	212	212	213	212	212	211	213	214	212	213	212	212	212	211	216	214	211	213	212	213	213	211	212	213	212	213	212	244	354	505	689	702	699	698	697	698	699	698	699	698	700	700	701	700	699	701		
Total ST-Coal		7485	6801	6472	6268	6095	6099	6074	6103	6079	6035	6029	6035	6052	6079	6082	6087	6225	6941	7413	7459	7562	7789	7902	7945	7810	7796	7873	8067	8253	8364	8502	8695	8627	8594	8605	8678	8738	8739	8713	8738	8714	8733	8887	8916	8930	8779	8785	8534	
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	
CBPS	BLK2	356	367	364	360	363	357	364	360	360	244	201	200	284	361	356	357	359	354	357	356	357	353	361	360	359	361	359	358	356	358	355	358	358	358	360	358	346	361	361	360	352	352	353	357	355	357	353	224	
EMPP	BLK1	639	716	715	709	712	700	714	709	698	711	710	711	700	705	690	697	693	760	756	756	755	752	752	753	751	752	750	751	700	710	689	709	716	707	701	686	671	694	710	706	679	682	684	694	689	693	681	681	
EMPP	BLK2	637	718	715	710	712	698	715	709	698	710	711	711	695	710	692	697	698	686	696	688	693	683	711	702	709	710	705	697	711	710	691	709	716	707	706	686	700	682	710	708	676	679	682	690	689	690	680	682	
EMPP	BLK3	690	717	716	710	712	698	713	710	698	712	711	711	697	708	693	697	693	686	697	688	693	684	712	705	709	709	705	697	710	710	689	709	716	706	707	686	647	699	710	708	676	679	682	690	689	690	686	684	
GLGR	GT01	66	67	66	68	67	66	66	66	67	68	67	65	66	67	66	66	68	69	67	68	102	85	68	67	67	68	109	110	110	110	110	109	109	109	110	99	66	65	65	64	66	66	67	65	67	67	67		
GLGR	GT02	66	66	66	67	66	66	65	66	66	66	66	66	66	67	66	66	65	64	65	65	100	81	64	64	64	95	108	108	109	109	109	107	108	95	65	65	65	66	66	65	65	66	66	66	66				
GLGR	ST1C	69	71	71	70	71	71	71	70	71	71	71	70	71	70	71	70	71	71	70	71	88	86	71	71	71	86	99	100	100	101	100	101	100	100	101	95	74	71	70	70	70	71	71	71	71				
NPRI	BLK1	501	531	535	521	527	517	529	519	520	520	456	496	517	521	497	503	519	498	513	514	515	496	520	522	519	521	526	524	523	524	517	523	523	520	518	520	503	523	524	527	508	509	509	515	510	514	509	511	
PCGP	PGRG	592	617	615	602	610	592	612	598	601	604	600	601	598	602	589	595	596	580	599	587	593	578	599	604	601	603	598	600	602	602	588	603	612	599	599	596	562	604	601	598	579	579	582	590	585	594	581	583	
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	0	0	0	58	113	119	128	143	138	138	112	0	0	0	0	0		
PLPS	GT13	124	124	124	124	124	124	125	124	124	124	124	124	124	124	124	124	124	125	125	145	143	123	125	124	124	139	139	138	138	138	139	139	139	136	138	106	109	116	130	126	127	126	127	127	128				
PLPS	ST18	58	58	59	58	59	58	58	58	58	58	59	58	58	59	58	59	59	59	59	63	60	54	59	59	59	60	59	60	59	60	59	59	58	58	134	133	135	141	142	141	140	60	59	59	58	58			
SKSP	BLK1	219	247	260	218	218	218	220	215	219	216	218	217	218	219	219	219	220	239	219	217	335	334	331	222	219	218	336	336	337	338	334	331	337	339	338	334	281	218	336	339	334	219	220	219	217	219	219	220	
SPGP	BLK1	712	728	722	719	720	713	723	719	718	720	719	719	716	718	711	715	715	707	713	724	722	720	719	716	715	716	713	713	711	710	706	719	719	717	718	715	695	719	719	718	707	705	709	711	710	713	709	711	
SPGP	BLK2	717	716	717	717	717	719	719	717	718	718	718	717	720	719	718	715	715	707	714	710	710	705	716	715	715	716	706	694	703	706	709	719																	

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	63	63	-1	-1	-1	-1	-1
HTRG	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
HTRG	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
KNRG	HY01	23	24	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36	36	36	36
KNRG	HY03	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	38	38	37	37	37	37	37
KNYR	HY01	100	101	101	101	101	101	101	101	101	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
KNYR	HY02	103	103	103	103	103	103	103	103	103	103	103	103	103	102	102	103	103	103	102	103	103	103	103	103
KNYR	HY03	99	100	99	99	98	98	97	97	97	97	98	98	99	99	99	99	99	99	99	98	97	97	96	96
KNYR	HY04	100	0	0	0	0	0	0	-2	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
LPIA	HY01	23	23	20	21	21	21	21	21	21	21	21	21	21	21	21	22	22	22	22	21	21	21	21	21
LPIA	HY02	22	22	20	21	21	21	21	21	21	21	21	21	21	21	21	23	23	23	23	23	22	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	21	21	21	22	22	21	-1	-1	-1	-1	-1	149	149	-1	-1	-1	-1	-1	81	81	81	82	82	82
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGAU	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
PGAU	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
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	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	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	37	80	80	80	80	80	80
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	34	85	84	84	84	84	84
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	80	80	80	80	80	80
TMGR	HY04	41	83	83	55	83	44	82	41	41	79	83	53	41	52	41	40	42	40	43	42	41	40	57	42
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	91	106	91	90	117	177
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	92	-1	-1	-1	94	107
UPIA	HY01	6	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		622	565	559	534	560	521	536	495	496	532	633	604	743	755	593	594	595	619	614	745	757	778	818	1051
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
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	17	18	22	29	27	26	35	34	35
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	17	22	20	26	30	22	28	21	29
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	18	26	19	30	32	42	40	37	23
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	12	11	11	22	35	25	17	17	13	17
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	17	12	20	13	21	24	9	27
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	8	11	17	23	21	43	36	50	27
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	11	15	12	14	22	30	30	30
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	7	21	27	32	37	39	40	41	45
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	12	55	64	71	54	89	91	54	48
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	10	13	30	42	37	25	35	32
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	13	23	17	28	23	18	18	18
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	17	38	58	56	95	58	82	43	69
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	11	13	15	13	16	27	20	27
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	9	18	37	41	42	51	35	51	51
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	12	17	47	98	93	92	76	88	96	94

Daily MW Generation on Wednesday

[illegible]