

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	20,297 MW
Total Co-Gen	0 MW
Total System	25,865 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,674	4.72 %
Gas	51,379	14.55 %
Total TNB	68,053	19.27 %
ST-Coal	191,602	54.25 %
ST-Gas	2,595	0.73 %
LSS	3,753	1.06 %
Gas	87,504	24.77 %
Total IPP	285,454	80.82 %
Co-Gen	705	0.20 %
Total Co-Gen	705	0.20 %
Total Generation	354,212	100.29 %
PLTG	283	0.08 %
EGAT	5	0.00 %
HVDC	721	0.20 %
Interconnection	1,009	0.29 %
Net Energy	353,203	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	18,458 MW
TNB Generation	3,835 MW
IPP Generation	12,752 MW
Spinning Reserve	1,843 MW
Maximum Demand	16,588 MW
Net Energy	353,203 MWH
Load Factor	88.72 %

Fuel Cost

Total Cost:	122,594,465.86 RM
Cost per Unit	34.61 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	582
Hydro	530
Syncon	889
Thermal	350
Total	2,351

Time	Weather	Temperature
Afternoon	Cloudy	28
Morning	Cloudy	28

Gas Usage

Station	(mmscfd)
TJGS	134
Total TNB	134
CBPS	45
EMPP	273
NPRI	134
PCGP	81
PLPS	36
SPGP	200
PKLG	25
Total IPP	795
Total Gas	929
Total Gas Required	929

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	13937	13284	12841	12526	12332	12203	12386	12810	13461	14978	15726	16080	15874	15543	15965	16384	16588	16221	15376	15801	16234	15885	15288	14846

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, January 4, 2023 8:46:47 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	707	706	705	710	708	696	422	259	215	214	214	213	214	214	214	213	214	213	215	257	363	634	713	702	694	710	702	499	303	209			
JMAH	U002	214	214	212	213	214	213	213	213	215	213	213	213	213	213	214	214	214	213	213	214	212	215	213	213	212	214	213	214	214	215	212		
JMHE	U001	900	897	902	900	800	803	800	801	801	800	799	800	802	801	861	960	977	974	975	976	974	974	971	975	976	970	974	971	971	975	975		
JMHE	U002	899	901	903	897	798	799	800	800	802	801	799	797	800	798	800	805	800	852	934	975	974	975	972	971	970	972	969	974	972	971	975	975	
JMJG	U001	597	599	592	597	598	598	595	594	598	676	680	678	681	679	685	681	682	682	681	681	682	679	682	682	681	684	683	683	681	682	683	682	
JMJG	U002	687	686	685	681	688	682	686	684	683	682	680	683	683	685	687	682	684	685	683	685	684	686	687	685	682	685	683	682	686	685	683	686	
JMJG	U003	676	673	673	673	676	670	673	677	669	672	677	666	680	668	673	675	678	664	678	667	675	677	670	673	676	672	679	674	674	671	679	668	
JMJG	U005	903	904	901	822	800	798	801	803	798	801	797	801	801	801	799	803	799	831	972	979	982	982	978	979	977	978	978	976	976	975	974	978	975
PKLG	U004	157	154	153	154	155	155	156	157	153	155	159	155	154	155	155	155	154	154	155	154	154	160	154	154	154	155	155	156	154	154	153	156	154
PKLG	U005	272	269	267	269	268	268	268	269	268	269	268	268	269	268	268	268	268	269	269	268	268	269	271	269	269	268	268	268	268	270	269	267	
PKLG	U006	270	267	268	268	269	269	271	269	269	268	268	268	269	269	269	269	267	269	227	236	254	271	269	268	268	0	0	0	0	0	0	0	
TBIN	U001	701	696	698	702	699	700	695	698	697	700	698	699	698	698	700	699	697	700	695	702	698	699	699	698	698	698	697	698	696	699	695	702	
TBIN	U002	701	701	700	700	700	699	702	701	700	701	698	701	701	701	698	702	700	699	699	701	704	699	702	698	701	702	700	705	700	699	702	698	
TBIN	U003	672	673	671	672	673	672	671	673	671	672	672	673	673	674	670	673	675	673	671	672	672	673	673	671	672	675	674	674	669	671	671	673	
Total ST-Coal		8356	8340	8330	8258	8046	8022	7753	7598	7539	7624	7625	7615	7636	7618	7639	7637	7652	7765	8093	8155	8160	8129	8123	8143	8153	8152	8172	8149	8164	7880	7885	7875	7902
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	
PKLG	U002	91	0	0	0	0	0	0	0	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	U006	0	0	0	0	0	0	0	0	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		91	0	0	0	0	0	0	0	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	193	198	198	198	200	201	201	202	201	201	197	194	201	200	201	202	202	240	361	362	362	358	359	363	357	326	198	284	355	362	360	363	
EMPP	BLK1	403	410	412	409	408	410	411	409	410	409	409	403	410	408	409	411	412	718	720	720	718	719	720	717	702	500	499	672	709	709	710	709	
EMPP	BLK2	410	410	410	410	410	410	410	410	410	410	410	410	410	410	410	410	441	719	719	719	719	714	714	709	706	691	709	709	711	711	711	711	
EMPP	BLK3	650	410	410	410	410	410	410	410	410	410	410	410	410	410	500	711	709	709	709	709	714	714	708	705	690	710	709	711	711	711	711	711	
NPRI	BLK1	320	327	322	307	309	310	311	311	311	309	307	301	311	309	310	311	342	511	515	517	517	494	477	515	455	334	512	507	455	517	515	515	
NPRI	BLK2	319	326	322	304	306	308	309	309	308	307	304	299	308	305	308	310	337	387	445	517	517	479	381	446	380	311	458	504	380	505	515	516	
PCGP	PGRG	581	523	397	396	397	402	404	402	400	400	400	401	403	402	402	604	606	594	601	603	601	589	596	600	591	566	593	594	582	605	601	601	
PLPS	GT13	124	124	124	124	124	125	124	124	124	124	124	124	125	125	124	124	124	125	124	124	125	125	124	124	125	125	124	124	125	124	124	124	
PLPS	ST18	59	58	59	59	59	59	59	58	59	58	59	58	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	
SPGP	BLK1	706	717	646	545	547	450	600	600	599	599	498	537	549	647	720	718	722	717	718	721	721	711	715	719	716	699	715	712	707	719	718	719	
SPGP	BLK2	706	715	646	595	597	551	550	599	600	497	498	586	600	715	717	718	722	716	717	719	720	709	714	717	714	697	714	712	705	717	718	719	
TJGS	GT1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136	163	219	115	107	109	108	204	222	222	224	222	223	
TJGS	GT1B	130	129	127	128	132	129	127	131	131	129	128	130	130	131	131	130	130	131	130	127	129	159	212	107	100	101	103	196	215	215	217	216	216
TJGS	ST1C	78	78	78	79	78	78	78	78	78	78	78	78	78	78	78	78	78	78	79	79	80	173	249	173	146	146	203	246	247	248	247	247	
TJGS	GT2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	44	123	152	183	213	133	132	133	132	133	133	133	133
TJGS	GT2B	160	160	160	160	161	160	161	160	160	160	160	160	158	160	158	160	158	160	160	221	222	222	118	146	178	213	127	128	128	126	188	213	
TJGS	ST2C	95	95	95	95	95	95	95	95	95	95	95	94	94	94	95	94	95	94	117	118	121	147	206	221	242	192	192	192	225	251	251	251	
Total CCGT-Gas		4934	4680	4406	4219	4233	4098	4250	4298	4296	4186	4077	4186	4246	4453	4531	4830	5140	5957	6151	6314	6493	6553	6641	6579	6459	6230							

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	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	HY03	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39		
KNYR	HY01	59	59	59	59	60	59	59	60	59	59	59	59	59	101	89	61	61	60	61	60	60	61	61	61	60	
KNYR	HY02	60	60	60	60	60	61	62	84	61	60	61	61	61	81	68	99	81	72	100	96	88	60	98	60	60	
KNYR	HY03	54	54	54	54	54	54	54	54	54	53	54	54	54	54	94	96	96	96	97	97	97	97	97	97	97	
KNYR	HY04	61	61	61	61	96	96	98	98	99	98	98	60	100	100	61	70	69	70	64	66	65	97	61	99	99	
LPIA	HY01	28	28	28	28	28	28	28	28	28	28	28	26	26	26	26	26	26	26	26	26	26	26	26	26	26	
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
PGAU	HY03	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21		
PGAU	HY04	21	21	21	21	22	21	22	21	21	21	21	21	21	22	21	21	21	21	21	21	21	21	21	21		
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	50	50	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	50	50	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	50	50	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
TMGR	HY04	39	43	50	43	43	57	51	84	50	50	49	41	53	49	84	56	84	69	64	84	82	45	49	83	49	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	114	147	99	102	93	99	98	98	92	94	99	-1	-1	-1	-1	
UJLI	HY02	112	115	116	116	116	117	-1	-1	-1	-1	-1	-1	-1	-1	-1	120	118	115	-1	-1	-1	-1	-1	-1	-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	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		559	567	574	568	605	619	499	554	497	495	515	447	501	622	671	588	649	609	594	758	750	809	766	853	681	
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	2	2	5	6	8	7	9	15	13	15	16	15	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	6	11	10	18	21	27	33	22	32	24	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	5	8	20	23	27	27	25	25	21	32	32
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	7	12	17	24	26	27	26	27	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	7	19	16	11	12	15	25	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	10	11	30	36	17	40	35	40	28	12	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	8	10	12	21	26	24	26	28	10	12	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	3	5	8	18	24	22	22	25	24	23	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	12	18	34	55	71	71	66	72	90	58	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	6	11	25	34	34	29	39	34	31	42	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	7	11	18	24	25	24	26	26	21	
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	15	24	47	41	63	82	93	86	100	59	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	11	12	11	19	22	16	30	28	17	13	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	11	14	27	14	5	10	37	9	1	
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	5	4	8	27	61	51	12	15	79	20	
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	15	15	26	25	10	20	26	72	62	46	41	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	8	11	13	16	18	25	35	29	28	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	12	17	17	36	30	32	41	39	45	34	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	3	5	5	8	3	3	4	3	1	3	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	4	2	1	1	4	15	15	3	6	

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																								
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	5	47	90	134	214	321	496	525	515	560	661	582	508	556	503	417	390	274	253	223	141	72	28	2	0	0	0	0	0	0	0	0				
ESTL	ESTL	24	22	22	20	18	19	20	18	18	22	21	21	20	20	19	15	13	18	17	17	22	22	21	15	21	18	16	17	16	15	19	22	19	19	19	19	18	18	17	18	19	15	17	19	23	18	19	21
PCUF	CUFG	4	4	4	3	4	3	20	27	29	29	28	28	28	3	3	4	4	2	3	4	3	4	4	3	3	4	3	4	4	3	5	5	3	3	4	4	4	4	4	4	4	3	3	3	4	5	5	
PCUF	CUFK	3	3	4	4	4	2	7	2	3	4	3	4	2	3	3	3	3	2	4	3	4	5	4	4	4	3	2	4	5	4	3	4	4	3	2	4	4	4	4	3	4	4	3	3	3			
Total Co-Gen		31	29	30	27	26	24	47	47	50	55	52	53	50	26	25	22	20	22	24	24	29	31	29	22	28	24	24	23	21	26	32	28	25	26	26	24	26	25	26	26	22	24	26	29	26	27	29	
Total Gen		13971	13616	13340	13072	12910	12763	12549	12497	12382	12360	12269	12301	12433	12719	12866	13082	13508	14443	14996	15465	15753	16018	16084	16112	15881	15755	15564	15833	15981	16296	16413	16510	16615	16533	16278	15825	15496	15420	15860	16495	16317	16078	15914	15652	15330	15071	14865	14629
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			
TIE-HVDC		30	31	29	31	30	30	30	29	30	31	28	31	29	29	30	30	30	29	29	29	29	30	29	30	31	29	31	30	29	29	32	29	31	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
TIE-PLTG		3	44	27	15	39	14	-7	22	20	21	37	31	18	27	26	10	16	1	-12	41	-3	-1	-26	-49	-23	52	-9	16	-15	-55	0	-11	-2	2	26	36	90	1	28	48	52	-11	-2	-19	12	11	-12	34
Interconnection		34	75	56	46	69	45	23	52	50	53	66	62	47	55	56	40	47	31	18	71	27	29	4	-20	7	84	21	47	16	-25	29	21	27	33	57	67	120	32	59	78	83	19	29	12	42	41	19	64
System Total		13937	13541	13284	13026	12841	12718	12526	12445	12332	12307	12203	12239	12386	12664	12810	13042	13461	14412	14978	15394	15726	15989	16080	16132	15874	15671	15543	15786	15965	16321	16384	16489	16588	16500	16221	15758	15376	15388	15801	16417	16234	16059	15885	15640	15288	15030	14846	14565
SRev ST-Coal		495	501	509	506	498	523	587	581	593	582	595	600	583	596	585	594	576	598	425	365	362	348	367	359	366	368	354	370	356	328	322	330	307	337	304	335	329	328	315	370	310	297	247	225	225	328	316	322
SRev CCGT-Gas		1717	1971	2245	2432	2418	2553	2401	2353	2355	2465	2574	2465	2405	2198	2120	1821	1511	694	500	337	606	592	604	726	856	1105	1194	826	698	487	322	244	245	254	368	631	852	932	839	354	480	747	842	889	1263	1248	1275	1403
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 ST-Gas		35	0	0	0	0	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	44	44	44	44	44	44	44	45	44	44	44	44	44	44	44	45	45	
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	
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		917	917	917	917	917	917	1104	1104	1104	1104	953	1104	1104	917	917	917	917	917	730	730	730	917	917	1104	953	1104	1104	1104	1104	917	917	730	730	917	917	917	917	1018	766	917	917	917	917	917	766	917	917	917
Hydro		574	566	559	565	528	514	447	392	449	451	582	499	445	511	462	545	484	524	539	562	570	511	592	505	490	634	486	488	530	420	578	529	517	532	488	563	613	509	527	396	518	482	528	529	667	572	575	575
S.Reserve Total		3738	3955	4230	4420	4361	4507	4539	4430	4501	4602	4704	4668	4537	4222	4084	3877	3488	2733	2381	1994	2268	2181	2480	2507	2816	3060	3138	2788	2688	2383	2183	2064	1843	1897	2121	2490	2756	2831	2491	2082	2269	2487	2578	2604	2965	3108	3128	3262