

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,268 MW
Distillate	0 MW
Total TNB	2,268 MW
Total IPP	19,773 MW
Total Co-Gen	0 MW
Total System	24,123 MW

Generation Mix

Type	MWh	Percentage
Hydro	23,614	6.52 %
Gas	33,259	9.19 %
Total TNB	56,873	15.71 %
ST-Coal	179,469	49.59 %
ST-Gas	8,226	2.27 %
LSS	5,993	1.66 %
Gas	111,602	30.84 %
Total IPP	305,290	84.35 %
Co-Gen	574	0.16 %
Total Co-Gen	574	0.16 %
Total Generation	362,737	100.22 %
PLTG	2,463	0.68 %
HVDC	-1,657	-0.46 %
Interconnection	806	0.22 %
Net Energy	361,931	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	18,283 MW
TNB Generation	2,675 MW
IPP Generation	14,462 MW
Spinning Reserve	1,114 MW
Maximum Demand	17,137 MW
Net Energy	361,931 MWH
Load Factor	88.00 %

Fuel Cost

Total Cost:	0.00 RM
Cost per Unit	0.00 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	329
Hydro	446
Syncon	334
Thermal	170
Total	1,279

Time	Weather	Temperature
Afternoon	Cloudy	30
Morning	Cloudy	23

Gas Usage

Station	(mmscfd)
GLGR	54
SRDG	4
TJGS	65
Total TNB	123
CBPS	46
EMPP	207
KLPP	65
NPRI	163
PCGP	89
PGLA	112
SKSP	58
SPGP	105
PKLG	78
Total IPP	922
Total Gas	1,044

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Total Gas Required 1,044

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	14173	13399	12991	12471	12173	12057	12414	12515	13253	15259	16077	16468	16408	16101	16719	17122	17030	16820	15909	15887	16986	16800	16257	15849

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, October 3, 2022 2:46:19 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Thursday

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	215	214	212	213	213	213	214	213	214	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213
JMAH	U002	214	216	212	214	214	214	213	214	213	212	213	214	214	213	213	360	642	709	705	710	708	703	708	702
JMHE	U002	963	962	956	903	894	850	849	848	847	849	850	849	850	850	848	852	915	981	979	975	978	975	979	973
JMJG	U001	666	667	670	666	674	612	540	544	483	424	427	427	487	579	655	596	618	660	670	668	667	666	667	662
JMJG	U002	678	668	668	677	669	617	546	551	481	436	439	439	494	553	612	600	621	676	678	672	676	668	678	673
JMJG	U003	667	663	663	669	656	573	550	543	499	420	427	427	468	546	621	602	611	667	671	671	668	660	682	645
JMJG	U004	959	959	957	920	865	852	853	852	856	854	852	852	854	856	854	854	868	929	978	981	977	977	972	976
JMJG	U005	749	744	743	746	746	742	745	744	745	744	744	747	745	699	698	704	700	700	700	699	699	598	576	580
TBIN	U001	361	225	211	211	211	213	214	214	214	213	214	213	213	212	307	301	357	594	698	698	696	694	698	694
TBIN	U002	702	643	360	222	213	214	213	213	214	213	212	212	213	212	213	250	381	571	703	701	701	705	702	705
TBIN	U004	941	941	938	879	851	853	851	854	853	852	853	854	852	851	851	852	877	943	943	940	942	940	941	942
Total ST-Coal		7115	6902	6590	6320	6206	5953	5788	5790	5617	5432	5444	5448	5604	5784	6085	6000	6243	7104	7743	7930	7923	8040	8243	8258
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
PKLG	U006	446	446	449	377	290	268	268	268	268	269	268	268	269	269	269	268	311	399	445	449	450	449	447	364
Total ST-Gas		446	446	449	377	290	268	268	268	268	269	268	268	269	269	269	268	311	399	445	449	450	449	447	364
CBPS	BLK2	282	288	278	286	281	283	280	280	284	283	281	283	283	281	278	282	281	283	280	287	285	289	296	286
EMPP	BLK2	704	708	695	710	706	710	710	711	710	713	709	711	710	709	692	707	711	708	706	705	708	704	707	710
EMPP	BLK3	686	692	679	710	703	710	710	703	710	713	695	709	710	709	676	692	711	708	694	698	697	697	696	709
GLGR	GT01	105	105	104	105	103	70	65	66	67	66	67	66	66	65	66	66	78	104	103	103	103	102	103	105
GLGR	GT02	103	103	103	102	102	68	66	66	66	66	66	66	65	66	66	66	80	103	103	103	103	102	103	103
GLGR	ST1C	94	94	94	94	94	80	71	70	71	70	71	70	71	71	70	70	74	94	93	94	93	94	94	94
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	108	135	135	137	138	129	
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	60	141	117	114	
KLPP	GT15	0	0	0	0	0	0	0	5	8	13	13	8	8	17	27	27	69	140	140	140	140	140	110	110
KLPP	ST17	0	0	0	0	0	0	0	0	0	0	0	0	9	19	28	33	64	69	64	129	143	143	139	
NPRI	BLK1	513	521	506	521	515	521	521	523	521	525	523	521	523	521	504	515	523	520	518	513	520	514	515	520
NPRI	BLK2	516	523	509	525	519	526	525	524	525	528	523	526	526	508	516	526	522	523	517	521	518	520	524	512
PCGP	PGRG	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
PGLA	GT11	218	221	217	222	220	222	223	222	222	222	224	222	222	223	218	205	228	223	222	220	221	219	222	217
PGLA	GT12	216	216	217	217	216	216	216	216	216	216	216	216	216	216	216	216	217	216	214	217	217	217	216	216
PGLA	ST10	233	235	234	235	235	236	236	234	235	236	235	236	237	236	234	216	239	234	234	236	236	237	237	236
SKSP	BLK1	336	337	337	337	337	338	338	339	216	339	337	338	338	338	296	297	335	337	338	336	337	338	336	336
SPGP	BLK1	712	722	706	724	717	724	723	723	722	724	723	723	724	724	703	713	725	718	717	716	716	708	716	697
TJGS	GT1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	GT2A	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	228	228	228	228	228	228
TJGS	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	ST2C	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117
Total CCGT-Gas		5661	5708	5622	5731	5691	5647	5627	5621	5513	5652	5625	5643	5643	5646	5499	5553	5732	5845	5903	5918	6078	6094	6114	6170
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRDG	GT05	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 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
BSIA	HY02	20	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
BSIA	HY03	22	12	11	12	12	12	12	12	12	12	12	12	12	11	12	23	23	23	23	23	23	23	23	23
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	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

Daily MW Generation on Thursday

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	HY01	62	62	62	62	63	63	63	63	63	63	63	62	62	62	62	63	63	63	63	62	62	62	62	62	
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	20	21	20	21	20	20	21	20	21	21	21	21	21	20	20	31	31	31	31	31	31	31	20	21	
KNRG	HY02	21	21	21	22	21	22	22	21	22	21	21	21	37	37	37	37	37	37	37	37	37	24	24	25	
KNRG	HY03	21	22	21	22	22	22	22	22	23	22	22	21	35	35	35	35	35	35	35	35	35	22	21	22	
KNYR	HY01	100	100	100	100	101	100	101	101	101	101	101	101	100	100	101	101	101	101	101	101	102	101	100	100	
KNYR	HY02	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	
KNYR	HY03	103	103	103	103	103	103	102	102	102	102	103	103	103	103	103	103	103	103	103	103	101	101	102	103	
KNYR	HY04	100	100	101	101	101	101	102	101	101	102	101	101	102	102	100	100	100	100	100	100	100	100	100	100	
LPIA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	19	19	19	19	19	19	19	
LPIA	HY02	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	17	17	17	17	17	17	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	
PGAU	HY01	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	21	22	21	22	
PGAU	HY02	22	22	22	22	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	30	30	30	30	0	0	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	30	30	30	30	0	0	
SIHY	HY03	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	30	30	30	30	30	30	
SYPS	HY01	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	16	16	16	16	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	16	16	16	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	16	16	16	
TMGR	HY01	82	34	32	34	34	34	-1	-1	-1	-1	-1	-1	82	82	82	82	82	82	33	35	35	34	35	34	
TMGR	HY02	87	33	30	34	33	34	33	33	33	33	34	33	85	30	33	33	34	33	32	85	85	86	-1	-1	
TMGR	HY04	41	41	38	83	81	81	83	41	83	83	43	61	82	60	37	39	83	41	42	41	44	40	42	82	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	98	-1	-1	-1	-1	-1	-1	-1	84	-1	-1	-1	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	87	85	94		
UPIA	HY01	5	5	6	5	6	5	6	6	6	5	5	6	6	6	5	6	6	6	6	6	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		966	800	791	845	843	843	789	744	788	789	747	766	889	1001	734	739	846	892	892	886	1059	1051	966	1007	920
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	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	3	9	3	3	10	15	27	25	26	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	11	19	25	29	21	31	22	36	34	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	14	17	26	20	30	27	0	9	32	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	1	11	38	31	37	33	29	43	23	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	17	21	29	24	24	24	24	41	42	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	4	4	7	14	13	25	24	21	11	11	11	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	7	11	16	28	34	22	6	15	46	1	2	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	9	16	19	19	24	8	28	7	28	5	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	15	24	38	48	45	61	71	33	9	31	91	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	7	12	19	21	20	29	29	36	3	42	38	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	8	12	15	15	21	19	2	4	9	29	
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	13	19	2	9	23	77	75	100	59	63	100	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	3	1	0	8	10	20	22	19	6	25	33	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	7	14	22	28	33	36	42	31	51	50	51	
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	9	35	68	79	84	90	89	89	75	96	100	101	
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	12	22	48	48	63	75	64	70	54	58	41	52	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	9	9	12	11	12	17	44	31	52	12	18	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	22	18	10	5	11	39	42	20	48	

Daily MW Generation on Thursday

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			
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	2	13	18	19	22	25	27	28	8	8	26	8	6	28	24	6	0	0	2	2	1	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	3	9	17	24	30	30	30	26	22	10	23	23	30	30	26	30	30	30	30	24	17	10	4	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	47	161	281	377	465	534	642	683	660	610	554	763	757	818	767	888	690	560	551	443	360	264	93	25	1	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	16	9	7	9	7	8	8	8	7	9	9	8	9	10	9	9	10	9	10	9	10	8	9	9	10	10	10	10	10	9	9	9	9	11	11	11	8	7	7	8	8	8	8	7	7	7	7	6		
PCUF	CUFK	22	20	3	4	4	5	4	4	2	5	4	4	4	6	4	4	4	4	4	17	22	21	22	21	22	22	22	21	22	20	21	21	20	21	21	22	21	22	23	22	23	21	21	21	21	21	20			
Total Co-Gen		38	29	10	13	11	13	12	12	9	14	13	12	13	16	13	13	14	13	14	26	32	29	31	30	32	32	32	31	32	29	30	30	29	32	33	32	30	28	29	31	30	29	28	28	28	28	26			
Total Gen		14226	13885	13462	13286	13041	12724	12484	12435	12195	12156	12097	12137	12417	12716	12600	12621	13265	14403	15240	15624	16071	16305	16487	16574	16429	16207	16124	16620	16740	17137	17176	17115	17058	17169	16863	16380	15967	15724	15898	16758	17042	16938	16940	16664	16303	16165	15913	15616		
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	0	
TIE-HVDC		-29	-29	-29	-29	-28	-28	-31	-31	-29	-29	-29	-28	-28	-29	-29	-28	-97	-97	-98	-98	-97	-97	-98	-99	-99	-96	-97	-98	-97	-97	-99	-100	-97	-98	-98	-98	-98	-96	-100	-97	-96	-96	-98	-96	-30	-30	-29			
TIE-PLTG		81	38	92	26	78	36	43	52	52	17	69	73	31	67	114	38	40	101	79	120	92	108	116	97	119	119	119	119	212	151	138	127	129	140	153	156	165	108	127	154	145	236	167	142	48	94	77			
Interconnection		53	9	63	-3	50	8	13	22	-12	40	43	3	39	85	10	12	4	-19	22	-6	12	19	-1	21	21	21	23	22	21	115	54	38	28	32	43	54	58	68	11	27	56	49	140	68	46	18	64	48		
System Total		14173	13876	13399	13289	12991	12716	12471	12413	12173	12168	12057	12034	12414	12677	12515	12611	13253	14399	15259	15602	16077	16293	16468	16575	16408	16186	16101	16598	16719	17022	17122	17077	17030	17137	16820	16326	15909	15656	15887	16731	16986	16889	16800	16596	16257	16147	15849	15568		
SRev ST-Coal		355	432	457	591	645	784	781	780	784	784	783	779	781	827	744	774	738	445	302	174	182	201	269	163	134	129	107	131	84	140	116	133	97	111	109	103	108	97	114	103	123	113	120	123	181	206	194	257		
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	91	4	57	0	0	0	0	1	-1	0	0	0	0	0	0				
SRev CCGT-Gas		264	217	303	194	234	278	298	304	437	298	325	307	322	354	501	432	557	302	244	382	292	276	256	425	462	513	782	445	420	302	281	219	216	225	279	540	810	871	636	266	496	317	477	275	268	210	327	246		
SRev ST-Gas		-3	-3	-6	45	45	44	44	45	44	45	44	44	44	44	44	44	44	44	44	-2	-6	-7	-6	-4	45	44	44	44	105	44	-2	-2	-6	6	90	175	175	174	102	31	-5	-5	48	44	45	44	44			
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		
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		
Syncon		374	374	374	374	374	374	613	613	613	613	613	613	426	338	613	613	426	426	426	338	338	525	525	613	613	613	525	525	151	338	338	338	151	338	338	338	338	338	151	0	151	151	338	338	151	151	338			
Hydro		483	574	583	529	531	531	346	391	347	346	388	369	433	409	401	396	289	422	422	428	393	401	299	258	257	344	305	257	256	485	487	491	491	629	574	565	520	540	518	276	363	544	590	554	563	513	570	420		
S.Reserve Total		1473	1594	1711	1733	1829	2011	2082	2133	2225	2086	2153	2112	2006	1972	2303	2259	2241	1639	1438	1454	1203	1210	1342	1365	1462	1644	1851	1402	1329	1183	1266	1179	1231	1114	1363	1636	1951	2021	1780	898	1014	1119	1333	1338	1394	1125	1286	1305		