

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,347 MW
Distillate	0 MW
Total TNB	2,347 MW
Total IPP	18,412 MW
Total Co-Gen	0 MW
Total System	24,230 MW

Generation Mix

Type	MWh	Percentage
Hydro	26,096	7.04 %
Gas	45,314	12.23 %
Total TNB	71,410	19.28 %
ST-Coal	226,992	61.27 %
LSS	4,638	1.25 %
Gas	67,032	18.09 %
Total IPP	298,662	80.62 %
Co-Gen	473	0.13 %
Total Co-Gen	473	0.13 %
Total Generation	370,545	100.02 %
PLTG	81	0.02 %
Interconnection	81	0.02 %
Net Energy	370,464	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:	15:30:00 Hour
Total Set On Bus	18,831 MW
TNB Generation	3,291 MW
IPP Generation	14,094 MW
Spinning Reserve	1,437 MW
Maximum Demand	17,459 MW
Net Energy	370,464 MWH
Load Factor	88.41 %

Fuel Cost

Total Cost:	130,536,505.87 RM
Cost per Unit	35.23 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	841
Hydro	415
Syncon	275
Thermal	128
Total	1,659

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	49
TJGS	79
Total TNB	128
CBPS	35
EMPP	214
NPRI	67
PCGP	80
PLPS	50
SPGP	178
Total IPP	624
Total Gas	752
Total Gas Required	752

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	14847	14164	13657	13340	13038	12837	13279	13191	13671	15331	16014	16603	16593	16477	17154	17364	17432	17068	16139	16486	16953	16653	16117	15747

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, November 2, 2022 3:07:46 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	706	702	704	683	459	385	238	216	214	214	214	214	214	352	658	707	705	705	705	707	706	704	706	704	707	699
JMAH	U002	705	708	705	704	705	706	706	704	703	705	704	705	707	699	704	706	703	707	710	716	714	716	713	714	716	715
JMHE	U001	979	980	897	900	899	902	850	850	850	848	849	851	853	852	847	849	846	852	978	974	983	980	981	983	980	979
JMHE	U002	982	971	894	901	900	903	851	852	852	847	853	851	851	850	850	849	849	850	981	979	980	978	978	981	981	979
JMJG	U001	671	679	667	672	674	666	667	672	669	671	666	675	672	670	675	671	672	669	669	672	671	670	672	670	675	670
JMJG	U002	666	664	681	667	671	670	667	669	666	671	669	669	671	675	668	670	668	669	672	667	669	669	670	668	668	669
JMJG	U003	671	673	671	667	667	662	676	667	671	672	666	669	671	670	667	677	667	663	677	667	668	668	671	672	669	671
JMJG	U004	974	975	916	901	901	903	854	855	856	853	853	855	854	855	854	856	857	854	906	963	974	974	973	975	939	901
PKLG	U004	274	235	160	150	153	155	151	152	149	154	152	153	152	150	150	176	244	281	277	275	274	272	277	270	274	273
PKLG	U005	469	432	336	269	270	269	271	269	268	269	271	268	269	269	268	269	269	268	289	383	460	470	465	474	471	464
PKLG	U006	445	398	307	267	271	268	269	269	269	268	269	268	269	268	269	269	307	394	444	453	452	449	449	448	448	446
TBIN	U002	702	702	701	702	704	703	705	703	702	702	702	702	697	699	701	702	709	701	700	702	702	702	700	698	702	699
TBIN	U003	700	699	700	701	700	700	700	699	701	702	699	700	700	700	699	699	702	700	701	700	701	700	701	698	700	699
TBIN	U004	939	936	901	902	904	902	851	853	855	853	852	855	854	851	854	933	942	943	944	944	944	941	944	943	940	945
Total ST-Coal		9883	9754	9240	9086	8878	8794	8456	8430	8425	8430	8418	8436	8433	8425	8422	8434	8645	9200	9815	9882	9903	9902	9896	9894	9847	9825
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
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
CBPS	BLK2	199	187	196	194	198	198	200	200	197	196	196	201	201	201	194	200	201	206	202	195	199	199	195	201	191	199
EMPP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	147	149	196	197	198	197	199	239	426	
EMPP	BLK2	409	392	408	403	410	413	411	411	409	410	408	409	410	633	403	410	415	422	409	406	411	409	510	408	399	411
EMPP	BLK3	465	394	516	403	469	413	600	470	409	418	408	569	685	711	686	665	709	711	481	526	668	539	687	711	666	435
GLGR	GT01	67	64	66	66	67	67	65	66	67	66	67	66	68	68	64	65	66	67	67	111	113	112	112	110	110	113
GLGR	GT02	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	68	110	112	111	110	109	109	112	113	113
GLGR	ST1C	71	71	71	71	71	71	71	71	71	71	71	71	71	71	70	71	70	95	103	102	102	101	101	103	103	103
NPRI	BLK2	520	502	517	514	394	395	398	335	313	312	309	319	318	309	299	310	310	314	310	301	309	308	301	308	295	307
PCGP	PGRG	593	562	589	582	593	594	601	598	591	489	489	501	503	604	583	604	601	612	602	586	600	592	587	598	576	593
PLPS	GT11	129	128	128	129	129	128	129	129	128	128	128	128	130	129	129	128	129	129	129	129	129	129	128	129	129	125
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	64	
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	147
PLPS	ST18	58	57	56	57	58	57	57	58	57	57	57	57	58	58	58	58	58	57	57	58	57	58	58	58	57	57
SPGP	BLK1	598	599	598	600	598	598	600	600	598	599	600	600	600	600	599	598	596	600	599	598	598	597	600	598	599	599
SPGP	BLK2	598	598	598	600	597	598	600	599	597	600	600	600	599	597	599	598	598	597	598	598	599	598	599	598	599	598
TJGS	GT1A	108	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	225	225	225	225	225	225
TJGS	GT1B	104	103	105	102	105	103	103	103	102	105	101	103	103	105	101	102	102	104	100	101	105	221	220	221	221	221
TJGS	ST1C	148	146	145	144	144	144	144	143	143	143	143	143	143	143	143	143	144	144	145	247	255	255	256	255	256	255
Total CCGT-Gas		4133	3971	4161	4033	4001	3947	4147	3949	3853	3759	3747	3935	4057	4399	4097	4122	4168	4197	4023	4207	4399	4520	4884	4831	4730	4557
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	0	0
BSIA	HY01	22	22	22	22	22	21	21	21	21	21	21	21	21	12	11	11	11	11	11	21	21	21	21	21	21	21
BSIA	HY02	20	20	20	20	20	20	20	20	20	20	20	20	20	10	10	10	10	10	10	20	20	20	20	20	20	20
BSIA	HY03	23	22	23	22	22	22	22	22	22	22	22	22	22	10	10	10	10	10	22	22	22	22	22	22	23	23
CEND	HY01	9	9	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	HY02	9	9	9	9	9	9	9	9	9	7	7	7	7	7	7	7	9	9	9	9	9	9	9	9	9	9
CEND	HY03	9	9	9	9	9	9	9	9	9	7	7	7	7	7	7	7	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	7	7
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	64	64	64	64	64	62	62	62
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	61	62	62	62	62	62	61	62	62
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	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
KNRG	HY01	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
KNRG	HY02	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
KNYR	HY01	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
KNYR	HY02	101	100	101	100	100	100	101	101	101	101	101	101	101	101	101	101	100	101	101	101	101	100	99	99
KNYR	HY03	100	101	100	100	99	99	98	98	98	99	99	100	100	101	101	100	100	99	99	98	98	97	98	99
KNYR	HY04	100	100	100	100	100	100	100	100	100	100	100	101	101	100	100	100	100	100	101	100	101	100	100	100
LPIA	HY01	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	16	15	15	16	16	20	20
LPIA	HY02	16	16	16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	16	12	12	15	17	18	18
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	21	21	21	21	21	21	21	21	21	22	22	22	83	82	83	82	82	22	22	82	81
PGAU	HY02	21	21	21	21	21	21	21	21	21	21	21	21	22	21	22	84	83	83	83	83	22	22	83	81
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	30	49	50
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	30	50	30
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	30	30	30
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	17
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	0	0	25	25
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	0	0	25	25
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	79	79	78	79	79	78	79	79	79	79	78	79
TMGR	HY02	85	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	83	82	83	83	83	83	83	83	80	82	83	83
TMGR	HY03	48	37	77	42	78	54	78	78	63	73	68	79	81	79	40	81	81	79	78	78	78	79	78	78
TMGR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	79	79	79	79	79	79	79	79	79	79	79	79
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	90	82	-1	-1	-1	-1	-1	-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	-1	-1	-1	-1
UPIA	HY01	5	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	5	5	4	5	5	5	5	5	5	5	4	4	4	4	5	5	5	5	5	5	5	5	5	5
Total Hydro		797	699	739	702	738	713	737	737	722	728	724	735	739	705	664	707	711	965	1112	1108	1108	1110	1108	1324
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	0	0	1	2	9	13	12	19	25	24	26	16
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	8	10	12	13	14	16	17	22
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	8	12	17	21	22	14	10	15	7
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	14	12	21	20	24	44	18	39	43
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	7	21	13	29	31	32	13	13
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	8	5	21	24	6	4	3	4	13
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	11	20	24	26	25	24	33	24
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	9	18	17	19	29	25	13	16
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	6	11	15	24	40	23	36	26	50	42
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	7	13	19	32	47	55	65	23	44	43	5
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	10	15	23	27	29	38	17	27
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	7	10	16	21	28	25	16	24	5
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	12	33	62	63	88	79	64	69	42	20
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	10	18	20	18	20	10	21	23	10
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	35	51	51	42
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	19	71	61	76	95	96	91	91	94
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	11	16	21	31	36	72	83	72	88	88
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	10	27	27	43	52	49	10	40	22
SSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	14	19	25	32	35	37	36	35
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	4	13	13	16	14	8	12	27

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		
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	16	9	19	8	15	20	19	18	15	11	30	7	25	14	30	27	21	13	6	2	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	28	92	194	352	449	585	627	696	652	654	676	658	507	538	380	442	397	351	341	288	230	113	31	4	0	0	0	0	0	0	0	0	0	0
ESTL	ESTL	11	10	14	14	14	16	10	14	13	14	14	9	9	9	13	12	10	5	3	6	9	0	0	0	2	10	16	7	7	5	8	0	9	3	3	0	0	0	9	4	8	15	0	0	13	2	2	16	
KHTC	BLK1	1	3	4	3	3	4	2	4	4	4	4	3	4	4	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	1	3	0	3	3	6	3				
PCUF	CUFG	5	4	5	7	5	6	5	5	6	5	6	5	6	5	4	6	5	6	7	5	5	5	5	4	5	16	14	5	7	5	5	5	5	5	6	5	5	5	6	5	6	4	5	6	5	5	6		
PCUF	CUFK	5	4	4	6	4	4	5	5	4	3	4	5	6	5	4	3	4	7	4	5	4	4	4	5	4	4	5	5	4	5	4	5	5	6	6	5	4	6	5	4	4	3	5	5	4	5	7		
Total Co-Gen		22	21	27	30	26	30	22	28	27	26	28	22	25	23	24	24	22	21	14	16	18	9	9	9	11	30	34	17	19	14	18	9	19	13	15	11	12	9	20	17	19	26	10	10	27	14	18	32	
Total Gen		14835	14445	14167	13851	13643	13484	13362	13144	13027	12943	12917	13128	13254	13552	13207	13315	13638	14577	15316	15662	16013	16168	16593	16710	16555	16319	16440	16803	17227	17449	17439	17394	17341	17318	17091	16583	16223	16035	16491	17162	16987	16878	16677	16429	16143	16031	15718	15294	
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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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-PLTG		-12	44	3	2	-14	-6	22	16	-11	6	80	23	-25	-18	16	0	-33	-78	-15	-51	-1	-33	-10	-12	-38	-56	-37	-16	73	133	75	-65	-91	-38	23	49	84	64	5	39	34	23	24	10	26	-5	-29	-16	
Interconnection		-12	44	3	2	-14	-6	22	16	-11	6	80	23	-25	-18	16	0	-33	-78	-15	-51	-1	-33	-10	-12	-38	-56	-37	-16	73	133	75	-65	-91	-38	23	49	84	64	5	39	34	23	24	10	26	-5	-29	-16	
System Total		14847	14401	14164	13849	13657	13490	13340	13128	13038	12937	12837	13105	13279	13570	13191	13315	13671	14655	15331	15713	16014	16201	16603	16722	16593	16375	16477	16819	17154	17316	17364	17459	17432	17356	17068	16534	16139	15971	16486	17123	16953	16855	16653	16419	16117	16036	15747	15310	
SRev ST-Coal		136	241	496	532	577	585	631	634	636	626	645	628	630	641	633	630	634	609	201	137	116	117	123	125	142	84	89	37	6	16	139	149	142	148	130	140	148	152	139	145	157	151	152	146	141	131	135	147	
SRev CCGT-Gas		1197	1359	1169	1297	1329	1383	1381	1477	1571	1583	1395	1273	931	1233	1208	1162	1133	1407	1273	1131	1010	646	699	800	973	990	801	759	329	439	512	554	604	973	1273	1514	1611	1154	773	878	695	866	1055	1362	1494	1786	1755		
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 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	
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	
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		714	802	802	802	802	802	802	802	802	802	802	802	802	802	802	802	527	313	374	374	374	374	187	187	374	187	374	374	374	374	187	187	374	374	374	374	187	253	187	187	187	187	187	187	187	187	187		
Hydro		346	356	316	353	317	342	318	318	333	327	331	320	316	350	391	348	344	452	519	462	462	460	462	433	444	339	469	335	338	373	538	402	457	445	270	219	214	216	214	323	382	320	333	398	399	376	397	542	
S.Reserve Total		2393	2758	2783	2984	3025	3112	2934	3135	3248	3326	3361	3145	3021	2724	3059	2988	2942	2721	2440	2246	2083	1961	1605	1444	1573	1770	1735	1547	1477	1092	1303	1437	1527	1384	1560	2006	2250	2353	1881	1428	1670	1353	1538	1786	2089	2188	2505	2631	