

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	18,793 MW
Total Co-Gen	0 MW
Total System	24,785 MW

Generation Mix

Type	MWh	Percentage
Hydro	31,912	8.70 %
Gas	40,618	11.07 %
Total TNB	72,530	19.77 %
ST-Coal	193,495	52.75 %
LSS	3,653	1.00 %
Distillate	5,947	1.62 %
Gas	89,642	24.44 %
Total IPP	292,737	79.80 %
Co-Gen	382	0.10 %
Total Co-Gen	382	0.10 %
Total Generation	365,649	99.68 %
PLTG	-20	-0.01 %
HVDC	-1,161	-0.32 %
Interconnection	-1,181	-0.32 %
Net Energy	366,830	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:	15:00:00 Hour
Total Set On Bus	17,865 MW
TNB Generation	4,942 MW
IPP Generation	12,099 MW
Spinning Reserve	810 MW
Maximum Demand	17,309 MW
Net Energy	366,830 MWH
Load Factor	88.30 %

Fuel Cost

Total Cost:	134,686,995.36 RM
Cost per Unit	36.83 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,189
Hydro	393
Syncon	316
Thermal	104
Total	2,002

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	8
SRDG	21
TJGS	129
Total TNB	158
CBPS	46
EMPP	258
KLPP	7
NPRI	143
PCGP	65
PGLA	2
PLPS	51
SKSP	15
SPGP	132
Total IPP	718
Total Gas	876

Alternate Fuel Usage

Station	(mmscfd)
EMPP	24
PLPS	27
Total	51

Total Gas Required 927

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	15013	14296	13827	13485	13137	13001	13236	13388	13784	15315	16142	16724	16436	16405	17040	17309	17101	16682	15833	16115	16267	15954	15368	14985

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, January 4, 2023 8:33:08 AM

(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	701	697	701	704	699	702	701	701	703	701	701	701	702	701	701	699	701	701	702	703	700	702	702	701	704	702																																																																																																																																																																																																																																																																																																																																																																																																																																			
JMAH	U002	707	707	707	707	702	705	705	703	705	705	705	704	704	706	707	705	706	704	704	707	703	707	697	708	705	704	706																																																																																																																																																																																																																																																																																																																																																																																																																																		
JMHE	U001	977	976	967	898	900	901	850	846	849	852	853	850	849	848	848	852	921	977	977	975	979	981	979	977	984	977																																																																																																																																																																																																																																																																																																																																																																																																																																			
JMHE	U002	979	977	959	900	901	899	852	847	850	852	852	849	848	848	849	850	900	969	971	971	974	972	973	970	972	970																																																																																																																																																																																																																																																																																																																																																																																																																																			
JMJG	U001	679	680	677	676	677	677	675	673	678	679	677	680	678	677	677	679	678	646	625	625	682	668	672	672	673	672																																																																																																																																																																																																																																																																																																																																																																																																																																			
JMJG	U002	685	687	684	685	683	683	685	682	679	681	681	681	680	682	681	679	678	681	678	678	682	679	679	679	682	682																																																																																																																																																																																																																																																																																																																																																																																																																																			
JMJG	U003	681	682	681	675	681	681	683	680	679	680	683	682	678	679	681	681	685	683	681	680	684	681	682	685	679	683																																																																																																																																																																																																																																																																																																																																																																																																																																			
JMJG	U005	977	978	975	897	897	900	846	852	858	854	852	848	851	850	851	850	881	978	976	975	977	974	976	973	975	975																																																																																																																																																																																																																																																																																																																																																																																																																																			
PKLG	U003	277	276	276	276	276	274	228	142	151	154	156	155	156	195	264	279	278	274	274	275	279	277	277	276	277	277																																																																																																																																																																																																																																																																																																																																																																																																																																			
PKLG	U004	272	270	271	272	271	268	226	170	153	154	159	157	159	206	264	276	286	275	274	274	273	272	281	275	274	274																																																																																																																																																																																																																																																																																																																																																																																																																																			
PKLG	U005	467	464	467	468	475	467	415	329	267	267	269	268	268	311	406	466	467	469	464	449	468	468	464	467	474	468																																																																																																																																																																																																																																																																																																																																																																																																																																			
PKLG	U006	358	360	357	358	380	430	446	449	445	446	449	449	446	447	448	447	396	369	363	364	364	363	363	362	362	364																																																																																																																																																																																																																																																																																																																																																																																																																																			
TBIN	U001	702	700	698	698	698	702	698	705	697	698	700	698	698	701	700	701	702	699	698	700	700	698	699	700	699	703																																																																																																																																																																																																																																																																																																																																																																																																																																			
TBIN	U002	701	700	701	702	698	702	702	700	701	700	702	701	700	703	700	703	701	699	703	699	701	701	695	699	698	703																																																																																																																																																																																																																																																																																																																																																																																																																																			
Total ST-Coal		9163	9154	9121	8916	8938	8991	8712	8479	8415	8423	8439	8424	8417	8552	8775	8873	9030	9153	9093	9069	9168	9143	9146	9145	9153	9148	9143	9139	7721	7098	6964	6977	6986	6979	6976	6876	6814	6735	6731	6735	6729	6728	6733	6667	6739	6782	6775	6930																																																																																																																																																																																																																																																																																																																																																																																																													
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	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	201	201	201	201	201	193	201	199	200	201	198	201	206	202	319	358	363	361	354	357	269	360	358	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357	35

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																							
BSIA	HY03	23	23	23	23	23	23	23	10	10	0	0	0	0	0	0	0	22	22	22	22	22	22	22	22	22	23	23	23	23	23	23	22	23	23	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	9	9	9	9	9	9	9	9	9	9											
CEND	HY02	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8											
CEND	HY03	8	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8											
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	7	7	7	7	7	7	7	7	7	7											
HTRG	HY01	63	63	0	0	0	0	0	0	0	0	0	0	0	63	63	63	63	63	-1	-1	-1	62	119	119	119	119	118	118	118	120	119	118	118	119	119	118	121	63	63	63							
HTRG	HY02	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	121	121	-1	-1	63	63	63	63	63	63	117	117	117	116	117	118	117	117	117	118	117	118	117	117	63	63	63	63						
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	7	7	7	7	7	7	7	7	7	7	7	7	7	7							
KNRG	HY01	37	37	39	39	37	36	36	36	36	36	36	36	36	36	36	36	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	0	0	0	0	0	0	24	24	25	25	24	25	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37							
KNRG	HY03	39	39	39	39	39	39	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38							
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	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100							
KNYR	HY02	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101						
KNYR	HY03	98	98	98	97	96	96	95	95	95	95	96	96	97	98	98	98	98	97	97	96	95	95	95	95	95	96	97	98	98	98	98	97	97	96	96	95	95	95	95	95	96	97	97	98	98		
KNYR	HY04	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	102	101	102	101	103	103	101	101	101	102	101	101	101	102	101	101	101	102	101	101	101	102	101	101	101	101	101		
LPIA	HY01	0	0	0	0	0	0	0	11	25	23	23	23	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	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	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	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	111	150	150	111	23	23	151	151	151	151	151	151	151	150	150	22	22	22	22			
PGAU	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	109	144	143	113	114	113	112	113	23	113	112	112	112	112	112	20	20	20	20	20	20		
PGAU	HY03	22	22	21	21	21	22	21	21	21	21	22	21	21	22	22	22	22	22	22	22	22	22	22	22	22	22	23	145	145	147	112	112	22	22	22	22	22	22	22	22	22	22	21	21	21	21	
PGAU	HY04	22	22	21	21	22	22	22	22	22	21	22	21	22	22	22	22	22	22	156	157	158	158	158	158	158	158	157	148	147	147	110	110	23	23	23	23	23	23	23	23	23	22	22	22	22		
SIHY	HY01	30	0	0	0	0	0	0	0	0	0	0	0	0	0	28	31	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	31	31	31	31	31	31	31	31				
SIHY	HY02	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	50	50	50	50	50	50	50	0	0	30	30	30	30	30	30	30	30			
SIHY	HY03	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	0	0	30	30	30	30	30	30	30			
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	17	17	17	17	17	17	17	17	17	17	17	25	25	25	25	25	25	25	25	25	25	0	0	0	17	17	17	17	17	17		
SYPS	HY03	25	16	16	16	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	25	25	25	25	25	25	25	25	25	25	17	17	17	17	17	17	17	17		
SYPS	HY04	25	16	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	25	25	25	25	25	25	25	25	25	25	17	17	17	17	17	17	17	17		
TMGR	HY01	81	81	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	82	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81		
TMGR	HY02	85	85	34	35	36	33	-1	-1	-1	-1	-1	-1	-1	-1	85	85	85	86	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	
TMGR	HY03	81	81	33	32	32	30	32	32	32	32	32	32	32	82	81	81	82	82	81	81	81	81	81	81	81	81	81	81	81	79	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81		
TMGR	HY04	54	77	53	58	41	39	42	43	43	41	42	63	46	82	42	41	42	64	73	41	41	78	41	40	41	59	41	41	81	81	39	41	81	81	41	81	64	53	65	75	49	81	81	72	40	81	81
UJLI	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	-1	92	183	185	173	176	182	183	85	93	-1	-1	93	93	92	92	-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	-1	-1	185	187	175	180	186	187	178	94	-1	-1	-1	94	94								

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
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
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
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
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
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
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
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
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
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
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
SSLS	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
STLS	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
TBLS	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
Total 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
ESTL	ESTL	13	14	13	14	24	24	25	15	14	15	24	23	21	18	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	4	5	5	3	4	3	4	3	4	3	4	3	4	3	5	3	4	4	3	3	4	3	5	4
PCUF	CUFK	4	2	4	4	5	4	3	3	3	2	4	4	5	4	5	2	2	4	3	2	3	4	3	4
Total Co-Gen		21	21	22	21	33	31	32	21	20	21	32	30	30	25	10	5	6	8	8	6	7	11	12	16
Total Gen		14962	14622	14269	14085	13788	13667	13439	13195	13105	12982	12954	13074	13193	13439	13365	13288	13796	14724	15252	15773	16115	16469	16779	16768
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
TIE-HVDC		-31	-30	-31	-31	-28	-28	-30	-28	-30	-28	-29	-28	-30	-30	-28	-29	-29	-30	-29	-31	-289	-198	-199	-196
TIE-PLTG		-20	4	4	24	-11	9	-15	58	-1	5	-18	4	-15	-5	6	17	42	-12	-35	1	3	-4	84	54
Interconnection		-51	-26	-27	-7	-39	-19	-46	30	-32	-25	-47	-25	-43	-33	-23	-13	12	-40	-63	-28	-27	-35	55	26
System Total		15013	14648	14296	14092	13827	13686	13485	13165	13137	13007	13001	13099	13236	13472	13388	13301	13784	14764	15315	15801	16142	16504	16724	16742
SRev ST-Coal		96	105	138	339	418	367	429	432	436	434	427	428	435	424	410	331	303	116	136	160	111	126	123	124
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
SRev CCGT-Gas		2294	2477	2530	2512	2791	2957	2898	2864	2900	3056	3088	2975	2830	2772	3007	3191	3074	2613	2174	1730	1683	1393	1326	1420
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
SRev 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
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
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
Syncon		676	802	890	890	890	890	978	978	978	827	978	978	978	827	978	978	890	676	676	802	802	651	489	489
Hydro		511	383	438	434	436	442	403	437	453	556	428	404	423	516	412	409	343	360	355	428	293	388	357	366
S.Reserve Total		3577	3767	3996	4175	4535	4656	4708	4711	4767	4873	4921	4785	4666	4539	4807	4909	4610	3765	3341	3120	2889	2558	2295	2399