

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,201 MW
Distillate	0 MW
Total TNB	2,201 MW
Total IPP	17,278 MW
Total Co-Gen	0 MW
Total System	23,481 MW

Generation Mix

Type	MWh	Percentage
Hydro	24,461	6.19 %
Gas	58,587	14.81 %
Total TNB	83,048	21.00 %
ST-Coal	212,171	53.65 %
LSS	6,783	1.72 %
Gas	93,291	23.59 %
Total IPP	312,245	78.96 %
Co-Gen	-872	-0.22 %
Total Co-Gen	-872	-0.22 %
Total Generation	394,421	99.74 %
PLTG	-336	-0.08 %
HVDC	-706	-0.18 %
Interconnection	-1,042	-0.26 %
Net Energy	395,463	100.00 %

Maximum Demand Record

Date: 5/11/2023	19,716 MW
Date: 5/11/2023	416,902 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:00:00 Hour
Total Set On Bus	19,894 MW
TNB Generation	4,451 MW
IPP Generation	14,371 MW
Spinning Reserve	1,117 MW
Maximum Demand	18,813 MW
Net Energy	395,463 MWH
Load Factor	87.59 %

Fuel Cost

Total Cost:	89,903,587.79 RM
Cost per Unit	22.69 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	933
Hydro	422
Syncon	336
Thermal	149
Total	1,840

Time Weather Temperature

Afternoon	Rainy	32
Morning	Cloudy	26

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	167
Total TNB	196
CBPS	42
EMPP	263
KLPP	48
NPRI	129
PCGP	82
PLPS	46
SGRI	16
SPGP	194
Total IPP	820
Total Gas	1,016
Total Gas Required	1,016

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	16053	15215	14724	14237	13973	13739	13990	13970	14435	15847	16798	17339	17276	17093	18032	18728	18813	18396	17249	17540	18234	18247	17731	17300

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, October 30, 2023 11:50:57 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	658	693	699	697	694	695	695	698	695	693	690	697	697	695	696	694	695	696	697	695	695	698	697	697	696	695	696																								
JMAH	U002	698	695	697	693	696	695	694	694	692	696	694	695	697	700	696	696	696	694	696	694	696	695	695	697	695	694	696	696	695																						
JMHE	U002	980	981	979	983	979	922	918	922	922	921	920	920	918	920	919	922	922	980	982	979	985	978	984	979	978	984	979	978	979																						
JMJG	U001	671	658	680	673	677	674	667	682	661	682	668	672	674	669	671	670	678	685	649	684	662	685	675	665	673	665	673	685	596																						
JMJG	U002	468	414	398	400	400	396	402	402	400	403	401	447	489	523	577	618	648	651	660	657	645	649	685	701	698	702	690	680	681																						
JMJG	U003	679	684	679	680	674	673	688	677	677	677	683	677	678	683	678	677	678	680	675	677	681	675	684	682	677	678	674	691	681																						
JMJG	U005	983	979	982	980	982	921	920	919	918	917	917	919	873	753	760	827	950	976	976	975	974	974	973	974	972	974	975	977	977																						
PKLG	U003	277	277	278	276	278	277	275	275	274	273	275	276	278	276	274	276	275	275	276	276	275	275	277	275	276	275	276	277	275																						
PKLG	U004	274	280	275	278	276	276	274	274	281	279	275	276	280	276	276	274	273	274	274	274	274	276	276	275	274	279	273	276	278																						
TBIN	U001	690	690	690	691	691	689	685	691	690	689	690	689	689	689	689	689	690	689	689	690	690	690	690	690	690	690	690	690	689																						
TBIN	U002	692	691	689	692	691	689	688	693	690	690	690	691	688	690	689	691	692	691	687	689	693	687	691	688	690	687	691	688	689																						
TBIN	U003	689	686	686	688	687	689	685	685	686	685	688	689	687	686	686	687	685	686	686	687	688	688	685	686	687	688	687	688	687																						
TBIN	U004	983	983	983	983	983	944	923	922	923	922	924	924	924	924	923	925	963	982	983	984	983	983	981	984	984	984	983	982	982																						
Total ST-Coal		8742	8711	8715	8714	8708	8540	8514	8534	8509	8527	8515	8572	8571	8479	8536	8639	8805	8944	8933	8964	8933	8942	8985	8987	8990	8990	8983	9008	8990	9005	8974	8968	8959	8951	8963	8953	8957	8973	9000	8990	8996	8987	9000	8995	8968	8945	8894	8895			
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	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	0	0	
CBPS	BLK2	209	206	206	214	205	210	203	213	212	206	212	207	211	216	202	210	212	209	212	213	213	212	215	216	209	213	212	212	250	360	362	358	360	362	351	206	198	206	214	292	320	358	360	356	357	357	361	359			
EMPP	BLK1	658	522	479	439	403	411	402	409	408	407	375	372	373	381	364	378	440	458	453	523	606	692	713	713	620	604	642	711	722	718	710	690	710	710	681	699	675	514	656	643	631	686	710	686	704	693	710	694			
EMPP	BLK2	657	518	475	435	403	410	402	409	409	408	375	373	373	381	364	378	440	465	452	527	611	691	714	714	618	603	642	710	722	720	710	690	709	711	680	698	675	686	715	711	710	686	708	686	698	693	709	696			
EMPP	BLK3	659	519	476	433	404	409	402	409	409	407	375	372	373	381	364	378	441	464	452	527	611	694	714	713	620	601	642	711	721	718	710	690	709	710	681	695	675	685	714	711	710	686	708	686	698	693	709	696			
GLGR	GT02	95	95	94	95	94	94	94	95	95	95	95	95	94	94	94	94	94	94	95	94	93	93	94	93	93	93	93	94	94	93	94	94	93	95	95	95	96	95	108	108	107	107	107	94	95	94	94				
GLGR	ST1C	42	41	41	41	41	41	41	43	42	42	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	42	42	42	42	42	42	42	43	48	48	47	48	43	42	42	42				
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	60	153	114	114	113	109	112	114	118	155	155	155	157	157	115	115	0	0			
KLPP	GT15	108	109	102	102	102	102	102	106	103	102	103	103	104	107	107	106	107	106	111	110	111	110	112	112	107	111	110	107	114	143	144	132	116	113	112	113	109	112	117	143	143	144	144	145	114	113	118	118			
KLPP	ST17	85	63	61	61	61	60	61	60	61	60	61	62	62	62	62	62	62	62	62	63	63	64	63	64	62	63	62	62	64	71	72	142	132	133	132	132	131	132	134	147	145	145	145	145	132	132	64	65			
NPRI	BLK1	314	313	312	319	310	318	307	318	319	311	319	311	319	325	306	316	319	316	319	320	321	319	324	325	316	319	318	397	519	519	517	508	513	515	502	507	495	506	515	515	513	507	514	505	506	506	510	507			
NPRI	BLK2	326	325	323	329	320	329	317	329	331	322	330	324	339	346	317	329	331	327	330	332	340	332	341	347	327	334	329	339	532	533	531	511	529	529	511	516	424	324	446	451	411	457	504	497	402	325	516	505			
PCGP	PGRG	594	593	590	601	581	483	385	406	400	385	401	389	401	416	389	398	400	397	602	604	608	603	612	612	599	604	601	603	627	620	609	587	600	603	576	592	566	590	611	607	604	590	599	587	591	593	598	595			
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	64	144	119	112	112	115	115	125	125	147	149	122	119	0	0							
PLPS	GT13	125	125	125	125	125	121	121	121	121	125	125	125	125	129	129	121	124	124	124	125	125	125	126	126	125	125	124	124	129	129	123	122	108	108	103	103	103	103	113	113	136	136	138	111	109	123	123				
PLPS	ST18	45	45	46	45	45	47	47	47	48	46	48	46	47	48	44	49	47	46	46	45	46	46	47	46	45	46	46	49	58	58	58	141	133	133	126	126	130	130	133	133	143	143	143	132	132	80	80				
SGRI	GT11	117	116	117	117	117	116	116	120	117	117	118	116	121	123	116	117	117	117	121	121	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SGRI	ST14	65	65	65	65	65	65	66	65	64	65	65	66	66	67	65	65	65	65	65	66	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SPGP	BLK1	717	714	710	720</																																															

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
CEND	HY03	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	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
HTRG	HY01	118	118	69	0	0	0	0	0	0	0	0	122	118	118	117	118	117	117	117	118	118	117	69	69
HTRG	HY02	116	117	69	68	-1	-1	-1	-1	-1	-1	-1	117	116	116	117	116	117	117	116	117	116	116	68	121
HTRG	HY03	7	7	7	7	7	7	7	7	7	7	8	8	8	7	7	7	7	7	3	3	3	3	3	3
HTRG	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3
KNRG	HY01	23	0	0	0	0	0	0	0	0	0	0	37	37	37	37	37	37	37	24	24	24	23	23	
KNRG	HY02	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	24	25	25	23	23	
KNRG	HY03	21	21	21	21	21	21	21	21	21	21	21	40	39	39	39	39	39	38	38	21	21	21	21	
KNYR	HY01	95	94	94	94	94	95	95	94	94	94	94	94	94	94	94	94	94	94	94	95	95	94	94	
KNYR	HY02	99	98	98	98	98	99	99	98	98	98	98	98	98	98	98	98	98	98	98	99	99	98	99	
KNYR	HY03	97	98	98	97	98	98	99	101	101	101	100	101	99	99	99	100	101	98	97	98	96	97	98	
KNYR	HY04	94	91	92	96	57	96	58	72	99	77	99	93	100	100	57	88	95	98	100	100	93	96	57	
LPIA	HY01	16	16	16	16	15	15	14	14	14	14	14	14	14	17	17	17	17	17	18	18	18	18	18	
LPIA	HY02	16	16	16	16	15	15	14	14	14	14	14	14	14	18	18	18	18	18	18	18	18	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	
PGAU	HY01	26	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	83	83	112	82	-1	-1	82	84	
PGAU	HY02	26	26	26	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	114	114	114	84	84	83	82	84	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	22	23	22	20	23		
SYPS	HY01	15	15	0	0	0	0	0	0	0	0	0	0	0	20	20	21	21	21	21	22	22	22	22	
SYPS	HY03	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	
SYPS	HY04	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25		
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	35	78	78	78	78	78	78	
TMGR	HY02	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	36	84	84	84	84	82	84	
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	80	80	80	80	80	79	79	78	
TMGR	HY04	41	40	42	43	40	42	39	46	44	40	81	42	81	81	38	49	48	49	42	42	42	60	39	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	185	180	96	-1	-1	-1	96	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	155	150	92	98	98	88	94	
UPIA	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3	
UPIA	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4	4	5	5	5	5	
Total Hydro		927	882	696	603	491	532	493	516	537	513	576	529	597	578	490	533	564	587	619	701	822	974	1059	1244
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	2	3	3	10	16	19	21	25	25	26	26	12
BKLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	2	7	8	14	22	21	27	26	31	30	34	25
BSLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	2	8	14	20	21	27	27	32	22	35	34	17
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12	18	22	31	18	31	22	27	24	45
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	14	21	27	30	32	35	42	34	27	38
GELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	14	13	15	24	24	28	6	22	5
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	13	11	24	32	38	38	47	30	29	37
JELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	8	21	24	27	29	20	25	17	31
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	7	14	20	27	32	31	33	41	50	37	33
KDLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	7	28	38	52	64	71	79	86	92	83	91
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	9	17	26	32	35	38	38	45	47	33
KMLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	2	6	13	18	24	25	25	23	18	30	30	28
KNLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	1	15	40	33	69	79	88	97	100	100	59	93
KRLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	4	7	16	21	24	25	28	30	27	25	24	30
MALS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	2	2	7	15	27	25	28	18	12	14	16	29

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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