

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,085 MW
Distillate	0 MW
Total TNB	2,085 MW
Total IPP	16,434 MW
Total Co-Gen	0 MW
Total System	20,875 MW

Generation Mix

Type	MWh	Percentage
Hydro	26,322	6.84 %
Distillate	2,538	0.66 %
Gas	36,197	9.41 %
Total TNB	65,057	16.91 %
ST-Coal	201,383	52.33 %
ST-Gas	193	0.05 %
ST-Oil	7,406	1.92 %
LSS	5,938	1.54 %
Distillate	30,441	7.91 %
Gas	70,831	18.41 %
Total IPP	316,192	82.17 %
Co-Gen	354	0.09 %
Total Co-Gen	354	0.09 %
Total Generation	381,603	99.17 %
PLTG	49	0.01 %
HVDC	-3,258	-0.85 %
Interconnection	-3,209	-0.83 %
Net Energy	384,812	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:	14:30:00 Hour
Total Set On Bus	19,047 MW
TNB Generation	3,487 MW
IPP Generation	14,381 MW
Spinning Reserve	1,190 MW
Maximum Demand	18,105 MW
Net Energy	384,812 MWH
Load Factor	88.56 %

Fuel Cost

Total Cost:	102,061,783.96 RM
Cost per Unit	26.67 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	870
Hydro	212
Syncon	511
Thermal	135
Total	1,728

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	28
Total TNB	56
CBPS	7
EMPP	186
KLPP	1
NPRI	119
PCGP	79
PLPS	40
SGRI	50
SPGP	182
PKLG	2
Total IPP	665
Total Gas	722

Total Gas Required 1,058

Alternate Fuel Usage

Station	(mmscfd)
CBPS	29
KLPP	101
PLPS	20
SGRI	95
TJGS	17
PKLG	75
Total	336

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	15719	15004	14370	14019	13625	13463	13699	13682	14055	15717	16540	17194	17305	17063	17839	18052	18062	17535	16604	16781	17499	17325	16743	16280

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	706	702	710	703	704	705	704	703	703	702	703	702	707	699	708	709	702	705	705	701	706	703	703	704	704
JMAH	U002	698	705	703	705	705	705	704	700	705	702	705	707	706	703	707	703	705	707	701	706	706	705	706	704	710
JMHE	U002	979	978	975	971	958	900	899	849	852	852	851	848	848	849	847	849	853	918	959	969	979	978	978	978	971
JMJG	U001	669	665	668	671	660	664	657	666	671	668	670	667	670	667	665	667	670	656	674	662	666	668	667	667	670
JMJG	U002	681	677	681	617	587	643	679	679	678	679	654	679	675	676	677	674	668	677	673	679	671	677	671	672	668
JMJG	U003	673	667	668	669	666	672	670	671	669	663	668	669	672	670	667	670	666	667	670	666	665	673	662	658	666
PKLG	U003	279	278	279	278	277	278	279	255	270	226	214	268	278	279	279	283	278	278	278	277	279	275	276	277	279
PKLG	U004	257	260	260	257	258	261	257	259	263	258	260	259	257	260	258	258	258	262	259	259	259	255	260	263	264
PKLG	U005	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471
TBIN	U001	696	699	696	700	700	695	697	701	699	700	699	696	702	698	697	702	700	700	697	701	697	700	697	703	697
TBIN	U002	698	700	702	697	700	696	697	701	698	700	701	696	699	698	698	699	700	697	698	699	700	695	697	697	701
TBIN	U003	696	698	694	699	697	698	697	697	696	696	696	696	697	697	697	697	698	696	697	695	697	695	699	700	701
TBIN	U004	981	983	982	982	982	936	904	881	853	853	851	852	853	851	854	855	852	891	935	981	983	982	982	982	982
Total ST-Coal		8484	8483	8489	8420	8365	8324	8315	8233	8228	8170	8144	8214	8234	8231	8219	8232	8219	8333	8406	8472	8481	8489	8481	8466	8475
PKLG	U001	188	200	200	202	202	202	200	203	202	201	201	202	202	202	202	202	202	202	199	200	200	200	200	200	201
PKLG	U002	0	0	0	138	120	122	114	115	123	123	128	132	139	113	113	113	113	105	114	114	114	100	103	104	
Total ST-Oil		188	200	200	340	322	324	316	315	326	325	329	333	341	315	315	315	315	314	315	314	307	316	316	316	302
PKLG	U002	124	128	134	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		124	128	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CBPS	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EMPP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EMPP	BLK2	407	411	408	406	375	376	374	375	371	376	376	368	377	374	356	356	378	374	501	444	657	711	618	705	609
EMPP	BLK3	408	411	409	405	375	375	375	375	371	376	376	368	378	375	356	356	378	376	501	442	655	711	618	709	609
GLGR	GT02	93	94	94	94	94	94	93	93	94	93	94	94	94	93	94	93	94	93	94	93	93	93	93	93	94
GLGR	ST1C	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
KLPP	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
KLPP	ST17	191	143	136	136	136	136	136	122	128	128	129	139	136	136	136	135	135	135	126	134	198	198	197	197	197
NPRI	BLK1	301	306	301	298	308	304	301	307	299	307	305	299	308	302	286	285	307	308	308	308	311	395	395	396	395
NPRI	BLK2	302	307	302	299	308	305	303	308	302	308	307	299	308	304	289	286	308	310	310	310	309	310	314	400	398
PCGP	PGRG	390	401	391	384	402	394	391	402	387	402	399	385	403	397	370	368	395	602	602	600	602	600	609	602	602
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT13	124	124	124	124	125	124	125	125	125	124	124	124	124	124	125	125	124	124	124	120	123	123	52	0	0
PLPS	ST18	57	59	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	59	59	58	127	110	144	144	
SGRI	GT11	0	0	0	0	123	119	119	119	119	119	119	119	122	119	115	114	119	129	133	131	41	0	0	0	0
SGRI	ST14	129	101	131	130	131	130	130	128	129	131	129	130	130	130	130	130	131	132	133	134	102	130	128	130	129
SGRI	GT23	110	110	110	111	113	111	110	110	110	110	110	110	110	110	106	105	110	110	110	110	111	113	113	113	114
SGRI	ST24	141	121	121	121	121	121	120	121	120	118	118	119	118	120	118	119	120	120	120	122	119	121	122	121	121
SPGP	BLK1	720	721	600	502	360	363	361	360	361	362	360	360	362	362	361	361	362	715	718	718	717	714	713	716	716
SPGP	BLK2	718	598	499	360	360	362	359	361	361	361	360	359	362	362	361	361	361	709	716	717	714	710	708	711	714
TJGS	GT1A	121	116	118	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	GT1B	117	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	ST1C	163	72	73	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	GT2A	0	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	94	93	93	93	93	94	94	94	95	78	78	78	78	83	103	104	90	0	0	0	0	0	0	0	0
Total CCGT-Gas		4627	4341	4009	3716	3523	3507	3490	3513	3465	3495	3482	3439	3503	3492	3406	3397	3510	4337	4604	4487	4818	4983	4979	5253	5041
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
BSIA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21	21	21	21	21	21	21	21

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	
BSIA	HY02	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
BSIA	HY03	22	23	22	22	23	22	23	23	22	23	22	22	22	22	22	22	22	22	21	21	21	21	21	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	
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	
HTRG	HY01	118	119	118	118	118	118	68	68	68	68	68	68	119	68	69	118	118	118	119	118	118	118	118	118	
HTRG	HY02	118	117	117	118	117	117	69	69	69	69	69	69	117	67	68	117	117	117	117	118	117	117	117	116	
HTRG	HY03	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
KNRG	HY01	36	36	36	36	36	36	22	22	22	22	22	22	22	22	23	37	37	37	37	37	37	37	37	38	
KNRG	HY02	37	37	37	37	37	37	23	23	23	23	23	22	23	23	24	38	38	38	38	38	38	38	38	38	
KNRG	HY03	38	38	38	38	38	38	21	21	21	21	21	21	21	21	38	38	38	38	38	38	38	38	38	38	
KNYR	HY01	96	96	96	96	96	96	56	58	59	59	57	59	96	93	53	97	96	96	96	96	96	96	96	96	
KNYR	HY03	97	99	98	99	99	100	99	51	52	53	53	54	102	93	53	97	98	100	100	101	101	99	100	100	
KNYR	HY04	58	98	59	59	98	60	59	58	59	67	60	59	99	97	55	55	59	62	98	98	98	98	98	92	
LPIA	HY02	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	27	27	
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	150	150	150	150	150	24	23	
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	
PGAU	HY04	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	22	15	15	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	17	17	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	17	17	
TMGR	HY01	79	78	79	79	79	79	35	34	0	0	0	0	79	29	29	33	79	78	78	78	78	78	78	78	
TMGR	HY02	82	83	82	82	83	83	33	33	33	33	32	33	33	28	27	34	84	84	84	84	84	84	84	81	
TMGR	HY03	80	79	80	80	80	80	32	31	32	32	31	32	32	28	27	32	80	79	79	79	79	80	79	79	
TMGR	HY04	41	79	43	41	79	41	41	41	42	49	41	39	81	75	37	36	40	42	80	80	80	80	79	80	
UJLI	HY01	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	4	3	3	3	3	
UPIA	HY02	6	6	6	4	4	4	3	3	3	3	4	6	5	5	5	5	5	5	5	5	5	5	5	5	
Total Hydro		1036	1094	1017	1015	1093	1017	872	640	642	627	611	601	691	966	692	611	822	972	1048	1094	1096	1114	1238	1251	1251
CBPS	BLK2	242	242	242	242	242	242	242	242	242	241	242	241	242	242	241	242	242	242	242	242	231	0	0	0	
KLPP	GT13	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT14	146	146	147	147	146	146	146	146	111	111	111	110	114	146	145	146	145	144	144	145	146	147	146	145	
KLPP	GT15	140	135	135	134	134	135	135	134	103	103	103	103	108	134	135	135	134	132	133	129	136	136	136	137	
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	
SGRI	GT11	127	50	119	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGRI	GT13	126	125	125	125	126	125	125	110	109	109	109	109	109	109	126	126	126	126	125	124	123	122	122	122	
SGRI	GT21	130	131	131	132	131	131	132	124	112	112	113	112	112	113	133	133	132	132	132	131	129	129	129	129	
TJGS	GT2B	214	214	213	213	213	213	213	213	158	158	158	158	194	214	213	0	0	0	0	0	0	0	0	0	0
Total Distillate		1198	1043	1112	1112	992	992	993	969	890	835	836	833	843	937	995	995	992	776	776	768	771	900	1020	1025	1167
BDLS	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	
BKLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BSLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CHLS	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	
GBLS	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	

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
GELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GNLS	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
JELS	LSS2	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	LSS3	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	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNLS	LSS3	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	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALS	LSS2	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	LSS3	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	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SNLS	LSS4	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	LSS2	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	LSS2	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	-2	-2	-8	-20	-12	-24	-25	-18	-16	-8	-10	-8	-2	-3	-5	-8	-9	-2	0	-7	-9	-20	-9	-21
KHTC	BLK1	-26	-26	-25	-25	-25	-24	-25	-22	-21	-23	-22	-22	-24	-26	-24	-28	-30	-34	-38	-43	-45	-45	-46	-47
PCUF	CUFG	30	30	30	30	31	30	29	30	30	30	31	30	32	32	30	29	30	31	31	31	29	30	29	29
PCUF	CUFK	34	35	35	34	35	34	34	38	39	37	37	39	37	29	29	31	31	30	27	30	29	30	28	30
PFTZ	PFTZ	5	5	5	5	5	5	5	13	13	9	5	5	6	5	5	5	5	5	5	5	5	5	5	5
Total Co-Gen		41	42	37	24	34	20	19	34	43	49	40	42	53	47	33	31	29	35	32	18	12	0	13	5
Total Gen		15698	15331	14998	14627	14329	14184	14005	13704	13594	13501	13442	13462	13665	13988	13660	13610	14035	15088	15681	15856	16247	16678	16909	17147
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		-28	-31	-28	-30	-28	-29	-28	-31	-29	-29	-29	-31	-29	-30	-29	-31	-28	-29	-29	-290	-290	-291	-292	-288
TIE-PLTG		7	2	22	20	-13	6	14	-11	-1	4	8	7	-5	9	7	25	9	24	-8	-28	-3	-4	7	
Interconnection		-21	-29	-6	-10	-41	-22	-14	-41	-31	-25	-21	-24	-34	-21	-22	-6	-20	-5	-36	-319	-293	-295	-285	-271
System Total		15719	15360	15004	14637	14370	14206	14019	13745	13625	13526	13463	13486	13699	14009	13682	13616	14055	15093	15717	16175	16540	16973	17194	17418
SRev ST-Coal		102	103	97	156	211	252	270	283	248	306	329	258	253	255	268	258	274	245	180	114	105	97	105	120
SRev ST-Oil		-18	0	0	0	18	16	24	25	14	15	11	7	-1	25	25	25	26	25	26	26	33	24	24	24
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		1640	1854	1938	2231	2315	2331	2348	2325	2373	2343	2356	2399	2335	2346	2432	2441	2328	1369	1102	1219	1113	951	902	702
SRev ST-Gas		1	-3	-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev Distillate		143	145	76	76	56	56	55	79	158	213	212	215	205	111	53	53	56	50	50	58	55	66	99	94
SRev Co-Gen		-1	0	0	0	0	-1	0	0	-1	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0
Syncon		489	489	489	489	489	489	489	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676
Hydro		294	86	163	165	87	163	308	539	537	465	481	484	394	357	480	561	350	200	124	78	76	209	84	71
S.Reserve Total		2650	2674	2754	3117	3176	3306	3494	3927	4005	4018	4065	4046	3869	3626	3942	4021	3712	2568	2157	2171	2058	1872	1890	1687