

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,082 MW
Distillate	0 MW
Total TNB	2,082 MW
Total IPP	17,525 MW
Total Co-Gen	0 MW
Total System	23,532 MW

Generation Mix

Type	MWh	Percentage
Hydro	22,012	5.98 %
Distillate	2,650	0.72 %
Gas	43,268	11.76 %
Total TNB	67,930	18.46 %
ST-Coal	211,850	57.57 %
LSS	4,335	1.18 %
Distillate	17,986	4.89 %
Gas	65,207	17.72 %
Total IPP	299,378	81.36 %
Co-Gen	1,290	0.35 %
Total Co-Gen	1,290	0.35 %
Total Generation	368,598	100.17 %
PLTG	-104	-0.03 %
HVDC	738	0.20 %
Interconnection	634	0.17 %
Net Energy	367,964	100.00 %

Maximum Demand Record

Date: 3/29/2022	18,840 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	18,761 MW
TNB Generation	4,000 MW
IPP Generation	13,420 MW
Spinning Reserve	1,287 MW
Maximum Demand	17,454 MW
Net Energy	367,964 MWH
Load Factor	87.84 %

Fuel Cost

Total Cost:	94,164,285.00 RM
Cost per Unit	24.90 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,094
Hydro	537
Syncon	95
Thermal	143
Total	1,869

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Rainy	28

Gas Usage

Station	(mmcsfd)
GLGR	45
SRDG	15
TJGS	129
Total TNB	189
CBPS	49
EMPP	186
NPRI	72
PCGP	59
PLPS	29
SKSP	37
SPGP	127
Total IPP	558
Total Gas	747
Total Gas Required	885

Alternate Fuel Usage

Station	(mmcsfd)
EMPP	84
PLPS	41
TJGS	14
Total	138

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	14925	14262	13719	13401	12923	12763	12883	13097	13482	15095	15761	16211	16140	16026	16588	17193	17406	17162	16107	16016	17127	16922	16202	15914

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	707	704	705	707	704	704	706	707	706	704	706	704	705	707	706	706	705	707	706	705	706	704	708	706	706	705	706	705	706	705	706	705	709	704	705	703	704	706	706	710	705	705	706	705	704	705		
JMAH	U002	706	709	708	706	704	704	706	704	705	705	707	705	704	704	705	705	707	706	708	707	706	707	702	705	703	706	707	705	705	706	705	704	705	707	705	704	705	703	704	706	704	706	704	706	706	705	705	705
JMHE	U002	980	975	982	978	901	899	901	853	850	850	847	852	849	849	847	865	952	963	980	981	978	979	983	982	977	978	979	981	982	981	979	977	981	981	981	976	979	981	978	978	982	978	979	982	982	981	980	
JMJG	U001	668	659	671	669	667	666	667	665	667	666	666	658	673	668	668	668	666	671	666	662	670	666	667	668	667	669	672	666	666	666	660	670	666	667	666	666	667	668	671	667	666	668	663	669	668	667		
JMJG	U002	607	606	603	615	666	672	666	671	671	671	671	668	675	667	667	664	670	666	672	667	666	669	670	668	672	668	673	667	668	672	668	667	669	667	673	669	667	673	669	666	659	657	663	663				
JMJG	U004	972	973	972	972	968	909	900	858	844	843	837	836	837	848	852	851	855	911	955	975	975	941	886	862	845	843	841	844	840	837	837	838	837	838	836	840	838	840	872	930	970	970	972	973	974	968	973	
JMJG	U005	973	978	972	976	919	905	900	849	848	848	848	849	862	848	848	854	852	929	963	970	975	969	972	977	972	973	975	973	970	975	972	971	972	974	967	974	973	969	973	972	969	981	972	967	968	975	978	973
PKLG	U003	280	280	280	278	279	279	282	278	276	251	205	239	260	278	283	283	281	281	280	279	279	279	279	279	278	279	278	278	279	279	280	280	280	279	275	274	276	275	277	276	276	277	278	275	276	277		
PKLG	U004	278	276	277	274	272	273	273	277	276	258	204	250	274	278	277	270	278	276	276	284	279	275	275	275	277	276	274	276	274	276	271	277	276	275	275	274	275	276	281	279	276	277	274	277	276	279		
PKLG	U006	446	449	445	447	449	448	448	446	449	453	450	450	448	449	448	449	450	449	449	446	449	449	449	449	448	450	448	446	444	436	445	444	445	444	445	442	445	442	441	443	440	356	309	268	268			
TBIN	U001	699	695	701	698	698	698	696	700	699	698	696	698	696	699	699	699	700	699	700	699	698	692	698	699	700	693	697	691	701	698	701	700	700	699	698	700	699	698	700	699	700	699	700	701	700	699		
TBIN	U003	698	697	700	705	699	701	699	697	700	697	697	699	703	701	700	699	700	698	699	696	699	697	700	698	700	699	699	698	700	698	699	697	702	688	702	703	705	701	701	704	703	698	704	702	702	704	700	703
TBIN	U004	938	941	940	942	907	904	905	856	853	851	853	853	853	851	855	852	859	940	942	941	943	942	940	938	942	940	941	939	939	939	939	939	940	945	942	942	939	941	941	939	941	942	942	939	940	941	941	
Total ST-Coal		8952	8942	8956	8967	8833	8762	8749	8561	8544	8495	8390	8456	8542	8547	8558	8557	8587	8877	8981	9017	9024	8978	8917	8895	8892	8879	8878	8875	8879	8885	8876	8858	8862	8885	8874	8880	8867	8867	8911	8964	9009	9024	9011	9001	8913	8875	8822	8833
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	
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	
CBPS	BLK2	354	228	220	228	223	216	221	216	221	225	224	218	216	216	218	215	222	230	362	339	365	363	358	348	357	364	358	353	356	354	360	361	364	361	358	359	359	358	358	356	360	357	358	359	357	354	362	
EMPP	BLK1	706	603	504	535	502	554	410	405	405	410	410	409	403	410	403	407	530	723	712	710	710	709	713	693	702	709	710	707	712	708	710	711	711	709	714	709	711	712	710	709	709	711	714	708	713	711	711	
EMPP	BLK2	595	501	500	535	502	554	410	405	405	410	410	409	402	409	402	408	450	725	713	713	710	708	710	708	692	705	706	709	706	712	708	710	710	710	708	714	708	709	710	709	708	708	712	714	708	712	711	711
GLGR	GT01	68	68	70	70	70	68	68	68	68	70	67	69	69	68	68	69	68	70	69	68	68	70	68	68	67	70	105	104	104	104	103	104	103	102	0	0	0	0	0	0	0	0	0	0	0	0	0	
GLGR	GT02	68	68	68	68	68	68	69	68	69	68	68	68	68	68	68	68	68	68	68	68	67	68	69	69	68	67	68	68	105	103	104	103	103	103	103	103	103	107	108	108	109	109	110	109	108	109	109	109
GLGR	ST1C	71	72	71	72	71	71	72	71	71	71	71	72	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	72	72	90	93	94	93	94	93	93	92	65	46	47	47	47	47	47	47	46	46	
NPRI	BLK1	509	515	471	397	365	308	319	311	310	321	320	314	312	318	310	310	321	332	513	515	517	515	516	512	502	505	512	513	515	509	515	512	515	514	515	512	517	515	516	515	515	509	516	514	514	514	516	
PCGP	PGRG	261	263	260	260	263	261	261	261	260	263	262	262	263	261	261	260	264	274	262	263	263	260	263	262	262	262	260	261	261	263	262	603	604	603	597	454	301	302	303	551	596	594	601	597	601	600	604	554
PLPS	GT11	135	116	80	63	63	63	63	63	63	64	63	63	62	63	63	63	63	63	62	63	63	63	63	64	63	63	141	140	140	137	140	141	141	137	140	142	140	141	141	138	138	140	140	141	140	141	140	
PLPS	ST18	132	127	123	111	110	110	112	108	105	104	105	105	104	105	105	107	110	111	110	112	111	112	111	111	111	111	111	134	135	134	134	134	133	133	134	132	133	132	133	133	133	133	132	132	133	134	131	133
SKSP	BLK1	217	266	216	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	344	346	347	270	255	219	218	257	329	310	285	282	287	334	309	297	302	336	337	326	327	336	338	338	336	337	333	335	336	
SPGP	BLK1	361	360	360	361	362	361	362	361	362	362	361	362	362	361	363	360	361	363	361	360	361	361	362	360	360	361	359	449	601	726	714	711	386	362	361	363	360	363	362	500	495	423	362	361	362	361	360	
SPGP	BLK2	361	361	361	363	362	360	362	362	363	362	361	363	362	361	363	362	360	363	362	361	362	360	361	359	360	361	360	450	599	710	724	712	449	360	360	362	360	363	362	431	430	430	360	360	360	360	361	
TJGS	GT1A	118	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	162	185	224	224	201	225	225	225	225	222	222	222	222	222	225	222	222	222	222	222	222	222	222	222	222	225	222	225		
TJGS	GT1B	111	115	119	119	119	121	116	116	117	119	116	115	117	121	118	118	118	1																														

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	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
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
KNRG	HY03	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
LPIA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
LPIA	HY02	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
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	110	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
PGAU	HY03	81	81	21	19	21	21	22	21	21	21	21	21	83	82	81	82	81	21	21	82	83	83	82	82
PGAU	HY04	80	81	21	21	21	21	21	21	21	21	21	21	81	80	80	80	21	21	81	83	81	81	82	153
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	47	47
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	50	46
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	50	47
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	25	25
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	25	25
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	25	25
TMGR	HY01	82	82	82	82	82	81	82	82	31	32	32	31	32	81	81	82	83	85	35	85	85	85	83	84
TMGR	HY02	84	85	85	85	33	31	33	33	33	33	33	34	32	33	76	86	86	34	86	85	85	85	82	84
TMGR	HY03	81	82	82	82	82	79	82	81	31	32	32	32	31	32	80	80	82	82	82	82	82	82	79	81
TMGR	HY04	50	85	47	85	50	39	85	41	39	85	85	41	40	41	41	39	85	85	42	85	80	53	83	51
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	90	-1	-1	92	92	88	82	86	90	93	87
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	95	94	93	95	91	83	87	92	94	90	91
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		806	755	597	633	548	531	584	538	435	483	484	440	435	439	535	533	627	736	781	702	799	985	1105	972
EMPP	BLK3	542	546	544	542	546	543	542	544	446	376	374	451	451	449	542	542	543	542	543	543	542	542	543	540
PLPS	GT12	142	147	147	147	147	141	146	141	119	120	119	115	115	119	116	135	154	153	151	151	150	151	150	146
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	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 Distillate		684	693	691	689	693	684	688	685	565	496	493	566	566	568	658	677	697	695	694	694	692	693	693	686
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	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
BSLS	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
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
GELS	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
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	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
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

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	
PCUF	CUFG	28	28	29	28	29	29	27	29	28	28	29	29	28	27	29	29	26	28	28	29	29	28	28	28	28
PCUF	CUFK	27	25	27	24	26	25	25	26	26	24	26	26	25	27	26	25	24	26	28	26	25	24	26	28	25
Total Co-Gen		55	53	56	52	55	54	52	55	55	55	54	54	53	54	56	53	53	50	53	52	59	55	51	52	55
Total Gen		14987	14647	14264	14064	13750	13687	13459	13195	12957	12914	12799	12882	12948	12979	13155	13176	13540	14489	15099	15479	15795	16076	16158	16157	16007
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
TIE-HVDC		31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
TIE-PLTG		31	23	-29	9	0	29	27	15	3	-26	6	2	34	24	27	41	27	-64	-27	-54	4	-28	-83	-114	-164
Interconnection		62	54	2	40	31	60	58	46	34	5	36	33	65	55	58	72	58	-34	4	-23	34	3	-53	-83	-133
System Total		14925	14593	14262	14024	13719	13627	13401	13149	12923	12909	12763	12849	12883	12924	13097	13104	13482	14523	15095	15502	15761	16073	16211	16240	16140
SRev ST-Coal		214	224	210	199	333	402	408	451	455	498	498	509	465	455	447	452	440	289	185	149	142	128	139	161	104
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
SRev CCGT-Gas		1982	2268	2508	2399	2501	2466	2736	2766	2763	2734	2745	2757	2772	2751	2772	2768	2574	2073	2005	1669	1538	1547	1656	1551	1688
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
SRev Distillate		12	6	6	9	6	13	8	14	36	34	34	39	39	32	40	21	-2	3	3	3	2	4	5	12	8
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
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
Syncon		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	313	126	313	126	313	126	126	126	126	126
Hydro		276	327	485	449	534	551	498	544	647	599	598	642	647	643	547	549	455	533	675	667	570	571	451	584	613
S.Reserve Total		2984	3325	3709	3556	3874	3932	4150	4275	4401	4365	4375	4447	4423	4381	4306	4290	3967	3211	2994	2801	2565	2376	2377	2434	2539
		2564	2546	2346	2008	1569	1373	1117	1059	1287	1532	1805	2044	2201	2304	1630	1230	1347	1482	1653	1809	1848	1922	2109		