

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,533 MW
Distillate	0 MW
Total TNB	2,533 MW
Total IPP	15,682 MW
Total Co-Gen	0 MW
Total System	20,938 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,252	5.04 %
Gas	35,753	9.88 %
Total TNB	54,005	14.93 %
ST-Coal	198,252	54.79 %
LSS	1,548	0.43 %
Gas	106,724	29.50 %
Total IPP	306,524	84.72 %
Co-Gen	1,299	0.36 %
Total Co-Gen	1,299	0.36 %
Total Generation	361,828	100.00 %
PLTG	-519	-0.14 %
EGAT	5	0.00 %
HVDC	531	0.15 %
Interconnection	17	0.00 %
Net Energy	361,811	100.00 %

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	14:30:00 Hour
Total Set On Bus	17,929 MW
TNB Generation	2,812 MW
IPP Generation	13,862 MW
Spinning Reserve	1,201 MW
Maximum Demand	16,738 MW
Net Energy	361,811 MWH
Load Factor	90.07 %

Fuel Cost

Total Cost:	75,854,789.00 RM
Cost per Unit	20.96 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	399
Hydro	476
Syncon	531
Thermal	124
Total	1,530

Time Weather Temperature

Gas Usage

Station	(mmscfd)
GLGR	53
TJGS	96
Total TNB	148
CBPS	53
KLPP	63
NPRI	157
PGLA	101
PLPS	82
SGB3	27
SKSP	50
Total IPP	534
Total Gas	682
Total Gas Required	682

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	15093	14504	13985	13514	13103	12969	12919	13069	13427	14956	15782	16322	16268	15977	16479	16658	16684	16345	15403	15443	16150	15908	15422	15085

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	697	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	192	199	213	314	359	356	354	357	358	355	353	211																		
JMAH	U002	697	691	695	695	696	694	696	695	696	698	694	694	696	697	696	696	691	694	695	698	695	691	696	696	696	695	699	697	692	694	690	644	453	328	245														
JMHE	U001	982	981	927	878	882	851	853	851	851	851	852	853	854	852	853	923	973	976	976	971	979	978	981	976	978	974	980	985	981	980	977	983	976	977	976														
JMHE	U002	979	981	929	881	879	854	851	851	852	849	853	853	851	855	852	853	930	981	981	982	976	983	979	980	978	978	982	984	977	981	976	979	977	976	976														
JMJG	U001	670	670	670	670	670	673	673	669	669	669	669	669	669	669	669	673	671	673	669	668	674	671	668	672	669	671	671	671	672	671	672	666	671	671	675	672	670	672	670	672	672	669	672	669					
JMJG	U002	293	293	293	293	293	287	287	288	288	288	288	288	288	288	288	286	287	286	288	285	286	286	285	288	286	286	286	286	287	287	286	285	286	281	288	312	341	383	437	517	543	551	551	548	597				
JMJG	U004	951	951	951	951	951	884	884	853	853	853	853	853	853	853	853	889	944	957	954	953	956	954	954	952	952	954	954	954	953	955	953	954	955	950	952	950	948	946	947	946	948	948	947	944	944				
JMJG	U005	888	888	888	888	888	887	887	855	855	855	855	855	855	855	855	890	891	892	892	890	892	891	888	887	892	889	889	889	891	895	890	887	892	892	890	892	889	894	894	894	894	892	892	890	887	888			
PKLG	U003	279	281	281	280	280	280	276	278	280	280	279	280	281	279	279	281	279	279	280	279	281	279	278	279	276	277	283	277	279	278	279	279	279	278	281	279	280	281	281	277	278	281	278	281	280				
PKLG	U006	450	449	449	447	449	452	450	448	447	450	446	445	447	449	450	448	447	447	448	445	436	449	446	446	448	446	444	448	448	448	449	449	446	446	450	448	449	452	449	450	437	447	447	447	445	448	450		
TBIN	U001	688	687	689	689	689	692	689	690	689	690	689	693	689	691	689	690	690	689	690	688	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690			
TBIN	U002	698	692	694	693	692	693	690	694	691	693	690	661	712	690	692	692	692	690	691	688	691	693	692	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	690		
TBIN	U003	693	689	695	691	683	692	694	690	693	689	692	692	691	687	699	679	691	696	706	687	689	685	695	690	690	699	683	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	698	698	698
Total ST-Coal		8965	8253	8161	8056	8052	7939	7930	7862	7864	7865	7859	7835	7885	7867	7868	7857	7868	8089	8259	8260	8248	8215	8263	8251	8248	8257	8241	8261	8262	8250	8258	8251	8266	8251	8327	8462	8446	8477	8592	8671	8724	8747	8838	8856	8836	8616	8489	8312	
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	
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	360	359	362	365	362	362	365	366	345	250	358	361	363	364	353	223	282	369	366	367	367	367	367	367	365	366	367	367	363	366	369	366	365	362	369	357	366	361	357	367	359	366	366	363	362	302	364	368	
EMPP	BLK1	711	707	709	710	710	711	711	710	701	711	708	712	714	720	702	713	712	712	711	715	710	709	713	708	710	709	709	712	717	710	714	707	710	710	711	703	709	711	703	710	704	710	712	709	713	708	711	710	
GLGR	GT01	109	106	108	106	106	82	67	68	67	67	68	68	68	69	68	68	68	84	103	104	103	105	104	104	103	104	104	103	104	104	105	104	104	103	102	104	68	67	67	95	100	71	67	66	67	67	68	68	
GLGR	GT02	107	107	107	107	107	81	68	68	68	67	68	68	68	68	68	68	68	85	104	104	104	103	106	105	103	104	103	103	103	103	104	104	104	104	104	104	67	68	68	96	99	71	68	67	68	67	68	67	
GLGR	ST1C	97	97	97	97	97	86	72	72	71	71	71	71	71	71	71	71	77	93	93	94	94	93	94	94	94	94	94	94	94	94	94	94	94	93	79	72	72	85	95	80	71	71	71	72	71	71			
KLPP	GT13	0	0	0	0	0	24	23	20	20	20	20	42	50	51	141	139	139	135	138	136	136	134	138	138	138	138	137	139	140	141	140	140	140	140	128	129	128	141	128	131	12	0	0	0	0	0	0		
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	42	120	152	145	145	146	145	146	146	145	146	145	146	146	146	146	146	146	132	132	133	146	140	132	132	5	0	0	0	0	0	
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	75	145	145	145	145	145	145	145	145	145	145	145	145	145	145	125	125	125	140	140	140	140	140	140	130	130	130	
KLPP	ST17	0	0	0	0	0	0	0	0	5	14	21	29	34	67	67	67	67	62	68	134	142	132	188	210	210	210	210	210	210	210	210	210	210	210	210	205	206	206	212	208	206	172	98	68	68	68	68		
NPRI	BLK1	510	509	517	515	514	516	515	515	478	484	435	341	340	365	428	463	530	523	521	529	522	521	524	521	520	520	520	521	521	520	522	518	519	517	520	510	520	520	512	520	512	520	518	520	515	470	521	530	
NPRI	BLK2	514	512	518	520	520	520	518	520	509	517	512	403	401	410	386	398	530	532	528	536	531	530	533	529	529	530	529	530	532	530	529	527	529	524	530	521	530	528	521	530	521	529	527	530	524	474	516	523	
PCGP	PGRG	598	595	603	601	603	605	604	603	592	600	595	606	607	615	590	602	605	606	602	611	604	604	607	599	601	602	603	604	615	604	613	601	603	599	602	588	602	603	593	603	587	601	601	605	557	603	605	552	
PGLA	GT11	225	223	227	230	192	228	228	229	224	191	168	170	170	176	165	169	170	217	216	218	215	216	217	214	215	216	215	215	217	214	214	215	216	213	169	168	184	217	192	188	170	170	168	168	169	170			
PGLA	GT12	0	0	0	25	143	229	233	233	230	196	172	175	175	179	169	174	175	222	219	222	220	220	221	220	220	219	220	220	221	219	220	218	218	219	220	218	173	172	188	221	196	192	174	173	172	173	174	174	
PGLA	ST10	110	111	111	107	183	252	250	248	245	231	204	205	206	206	202	205	205	237	238	240	238	239	240	240	239	239	241	241	241	242	240	241	240	237	238	235	204	205	207	237	228	218	213	206	203	204	206	205	
PLPS	GT11	143	139	143	143	143	65	66	67	62	67	63	66	67	71	61	67	66	110	142	127	123	128	124	124	125	117	116	125	128	125	124	126	125	124	124	113	115	117	114	125	112	117	117	128	129	130	130		
PLPS	GT12	139	135	139	139	139																																												

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEND	HY01	7	7	8	7	8	8	7	7	8	8	8	8	10	10	10	9	9	9	10	9	9	9	9	9
CEND	HY02	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	9	9	9	9	9	9	9	9	9
CEND	HY03	7	7	7	7	7	7	7	7	7	7	7	7	10	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	-5	124	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
HTRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HTRG	HY03	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5	5	7	7	7	7	7	7	7
HTRG	HY04	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	7	7	7	7	7	7	7	7
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY03	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	35	35	35	35	35	35	35	35	35
KNYR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	99	98	60	60	60	61	61	99
KNYR	HY02	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	61	96	101	102	60	60	60	62	102
KNYR	HY03	51	53	54	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	85	99	99	51	51	52	52	99	99
KNYR	HY04	58	59	88	61	72	71	61	59	57	60	59	69	68	101	57	59	76	62	67	94	72	99	86	63
LPIA	HY01	23	23	23	23	20	20	20	21	21	21	21	21	23	23	23	23	23	23	23	23	23	23	23	23
LPIA	HY02	21	22	22	22	21	21	21	20	20	20	20	20	23	23	23	23	23	16	16	16	16	16	16	16
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	120	148	120	120	119	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	110	110	20	-1	-1	-1	-1	-1	-1
PGAU	HY03	121	147	121	121	20	0	0	0	0	0	0	0	0	0	0	112	111	111	111	111	111	111	111	111
PGAU	HY04	119	148	121	120	20	0	0	0	0	0	0	0	0	0	0	21	111	110	110	111	110	110	110	110
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY01	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	84	84	84	33	33	33	34
TMGR	HY02	35	86	64	33	0	0	0	0	0	0	0	0	0	0	0	0	87	86	87	87	86	35	35	35
TMGR	HY03	32	79	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	41	41	69	44	55	53	41	42	39	41	41	49	46	76	39	41	57	42	46	85	58	85	85	85
UJLI	HY01	-1	177	93	93	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	93	95	90	90	88
UJLI	HY02	-1	87	-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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		719	1297	937	737	427	264	240	239	233	240	238	258	254	338	233	243	277	249	389	744	855	1212	1204	1493
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	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
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

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																								
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	13	14	11	15	24	12	22	27	22	30	22	19	13	12	9	8	7	5	4	2	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	2	3	8	5	10	17	23	15	23	29	16	14	18	16	13	13	10	10	5	6	4	2	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	1	3	4	3	6	7	4	1	3	2	6	6	8	10	4	6	4	4	3	2	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	1	2	3	5	6	22	6	3	7	3	12	6	4	5	5	6	7	4	8	4	1	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	2	16	49	94	116	158	177	192	145	179	233	238	238	239	226	203	169	121	106	83	64	34	17	3	2	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	27	28	28	27	28	29	29	28	28	28	27	29	28	28	28	28	29	28	28	29	29	27	30	31	27	29	28	29	26	25	26	28	26	30	28	28	30	26	29	27	29	27	27	31	29	29	29	
PCUF	CUFK	25	27	25	26	26	27	26	25	26	25	27	26	26	26	26	26	28	25	25	27	26	25	26	26	26	26	26	27	26	25	24	27	27	25	25	26	29	26	28	26	25	26	28	26	24	24		
Total Co-Gen		52	55	53	53	54	56	55	53	54	53	55	53	55	54	54	54	57	53	53	56	55	52	56	58	53	55	54	56	52	50	50	55	53	55	53	54	59	52	57	53	54	53	55	57	53	53		
Total Gen		15120	14751	14452	14231	14032	13778	13519	13247	13125	13012	12982	12841	12904	13077	13098	13079	13419	14385	14903	15425	15751	16141	16271	16463	16279	16089	15991	16297	16470	16728	16619	16765	16718	16587	16341	15830	15384	15223	15483	16064	16161	16061	15914	15698	15429	15278	15102	14941
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	
TIE-HVDC		29	31	31	31	30	30	31	31	31	31	30	30	31	31	1	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	31	31	30	30	31	31	29	29	31	31	30	30	30	30	30	
TIE-PLTG		2	-62	-82	-27	18	-41	-25	-37	-9	-19	-16	-38	-45	-37	0	-24	-37	-14	-54	-92	-31	-39	-51	1	11	-15	14	32	-10	-10	-39	50	4	17	-34	-18	-49	-40	11	-67	-19	-87	-23	48	-24	-25	-14	7
Interconnection		32	-30	-51	4	48	-11	6	-6	23	12	14	-8	-14	-5	30	6	-7	17	-52	-91	-31	-39	-51	1	11	-15	14	32	-9	-10	-39	80	34	47	-4	13	-18	-10	41	-36	12	-57	7	79	7	5	17	37
System Total		15088	14781	14503	14227	13984	13789	13513	13253	13102	13000	12968	12849	12918	13082	13068	13073	13426	14368	14955	15516	15782	16180	16322	16462	16268	16104	15977	16265	16479	16738	16658	16685	16684	16540	16345	15817	15402	15233	15442	16100	16149	16118	15907	15619	15422	15273	15085	14904
SRev ST-Coal		92	104	196	260	266	323	330	396	394	390	400	430	375	396	393	404	390	268	98	97	109	142	94	106	109	100	116	96	95	107	99	106	91	106	180	145	261	230	340	286	183	160	169	151	171	191	98	195
SRev CCGT-Gas		259	497	342	258	504	637	862	1063	1182	1374	1398	1533	1518	1409	1286	1306	1024	284	417	404	338	291	442	431	226	282	429	215	192	192	175	199	195	228	202	458	646	798	723	268	410	581	668	827	1171	1295	1178	891
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		606	102	415	516	703	854	854	854	854	854	854	854	703	854	854	854	854	854	703	601	500	651	151	464	651	651	651	464	464	464	313	464	464	565	667	667	667	667	667	667	667	667	667	667	667	667	667	
Hydro		450	290	337	350	386	98	122	123	129	122	124	104	108	175	129	119	85	113	273	156	257	291	148	484	588	602	687	681	722	438	551	637	502	445	438	519	432	453	420	377	558	414	404	352	441	350	281	600
S.Reserve Total		1407	993	1290	1470	2032	2085	2341	2609	2732	2913	2949	3094	3028	2856	2835	2856	2526	1692	1815	1446	1391	1224	1335	1172	1387	1635	1883	1643	1473	1201	1289	1255	1252	1243	1471	1875	2179	2321	2323	1771	1840	1995	2081	1997	2247	2300	2208	2060