

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,365 MW
Distillate	0 MW
Total TNB	2,365 MW
Total IPP	18,346 MW
Total Co-Gen	0 MW
Total System	23,534 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,507	3.47 %
Gas	33,714	9.37 %
Total TNB	46,221	12.84 %
ST-Coal	243,065	67.52 %
LSS	2,172	0.60 %
Gas	67,634	18.79 %
Total IPP	312,871	86.92 %
Co-Gen	344	0.10 %
Total Co-Gen	344	0.10 %
Total Generation	359,436	99.85 %
PLTG	162	0.05 %
HVDC	-694	-0.19 %
Interconnection	-532	-0.15 %
Net Energy	359,968	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:	16:00:00 Hour
Total Set On Bus	18,522 MW
TNB Generation	2,551 MW
IPP Generation	14,387 MW
Spinning Reserve	1,525 MW
Maximum Demand	17,055 MW
Net Energy	359,968 MWH
Load Factor	87.94 %

Fuel Cost

Total Cost:	54,824,734.98 RM
Cost per Unit	15.25 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	561
Hydro	292
Syncon	780
Thermal	190
Total	1,823

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	46
TJGS	196
Total TNB	242
CBPS	48
KLPP	58
NPRI	142
PGLA	50
PLPS	35
SKSP	45
YPKA	20
Total IPP	398
Total Gas	640
Total Gas Required	640

Alternate Fuel Usage

Station	(mmcsfd)
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	14560	13991	13495	13230	12908	12683	12663	12761	13205	14890	15687	16469	16499	16201	16712	16942	17055	16480	15284	15085	16067	15937	15428	15163

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	693	692	694	691	693	692	691	692	692	693	694	693	694	693	691	692	694	693	692	691	694	693	692	692	694	692	692	
JMAH	U002	692	694	694	695	694	693	696	692	694	694	693	696	692	693	694	691	693	691	695	695	694	694	697	694	694	695	693	
JMHE	U001	928	781	780	783	777	781	779	782	780	780	779	779	778	781	780	778	782	778	781	912	981	976	981	982	979	981	973	981
JMHE	U002	975	783	779	784	779	782	781	782	779	779	782	781	778	781	782	779	781	980	980	977	981	981	981	983	975	983	981	
JMJG	U001	0	0	0	0	0	0	0	0	0	0	34	36	182	206	315	347	413	436	452	456	497	585	688	678	676	666	655	
JMJG	U002	673	672	671	671	672	672	672	673	671	554	497	500	502	492	498	498	500	500	498	497	501	495	495	500	545	683	690	
JMJG	U003	662	663	663	661	665	662	668	662	662	665	663	662	663	665	664	667	663	666	663	665	663	666	664	667	661	666	659	
JMJG	U004	881	792	789	790	790	785	785	783	785	785	786	787	785	785	787	786	786	785	787	837	903	903	901	906	902	903	903	
PKLG	U003	281	279	279	280	285	283	284	277	208	207	206	207	206	206	174	146	258	280	281	280	280	279	279	278	276	275	278	
PKLG	U004	281	280	280	280	280	280	282	268	222	205	204	206	208	206	177	143	264	280	279	280	279	279	278	278	280	279	273	
PKLG	U005	474	466	462	464	459	459	472	459	450	378	317	261	267	271	269	269	333	418	473	468	468	471	460	468	468	460	450	
PKLG	U006	447	446	451	447	449	451	452	452	449	449	449	449	449	449	451	451	449	445	447	448	449	449	447	447	449	451	448	
TBIN	U001	689	688	686	685	688	685	687	691	685	687	691	688	689	683	690	688	689	691	691	690	690	689	689	689	690	688	690	
TBIN	U002	691	692	694	691	692	694	691	692	692	695	695	692	690	693	694	693	690	691	694	693	692	690	691	687	692	694	694	
TBIN	U003	687	690	691	690	690	692	694	692	691	689	692	690	690	690	688	690	690	691	691	690	689	690	690	690	690	689	690	
TBIN	U004	957	870	783	782	783	784	781	782	782	784	782	782	783	782	783	782	783	781	834	917	982	982	980	982	982	983	982	
Total ST-Coal		10011	9488	9396	9394	9396	9395	9415	9382	9242	9044	8963	8908	9053	9074	9137	9094	9464	9604	9689	10081	10372	10515	10611	110616	10648	10796	10768	
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	
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	
CBPS	BLK2	305	220	221	215	222	219	220	215	219	226	224	225	219	225	223	223	298	367	370	370	366	366	364	363	356	361	354	
GLGR	GT01	68	71	69	69	68	70	68	70	69	69	68	69	69	68	70	69	71	67	68	70	107	103	98	69	67	68		
GLGR	GT02	70	69	69	69	70	70	69	70	69	70	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	
GLGR	ST1C	69	69	69	68	69	69	69	67	70	69	69	69	69	69	69	69	69	68	68	89	90	90	68	68	68	79	90	
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	134	134	136	136	112	109	111	110	136	136		
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	152	151	153		
KLPP	GT15	124	124	124	124	130	130	130	130	130	130	130	130	130	130	130	130	130	130	155	154	154	156	156	123	125	123		
KLPP	ST17	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
NPRI	BLK1	499	512	511	505	502	407	394	310	319	320	397	400	386	347	332	321	482	520	518	520	521	520	519	515	508	507	500	
NPRI	BLK2	506	513	513	506	505	404	395	309	319	320	397	398	387	347	337	319	319	485	524	516	523	524	521	517	509	508	500	
PCGP	PGRG	424	402	401	395	398	401	399	395	400	301	303	303	302	303	302	302	301	604	602	600	602	582	584	601	597	587	534	
PGLA	GT11	167	167	160	160	160	159	160	160	159	159	159	159	160	160	159	160	158	159	159	159	160	161	193	194	193	194	194	
PGLA	GT12	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PGLA	ST10	114	95	93	93	92	92	92	92	92	92	92	90	91	91	91	90	91	91	91	91	93	93	105	105	104	104		
PLPS	GT11	129	128	128	129	129	129	128	128	128	128	128	129	128	129	129	129	128	129	129	129	129	129	129	129	128	129	128	
PLPS	ST18	59	58	59	58	58	59	58	58	58	57	59	58	58	57	58	58	58	58	59	59	59	59	59	59	59	58	59	
SKSP	BLK1	219	224	224	220	219	218	220	222	218	249	220	226	220	218	223	220	230	345	249	313	263	342	231	305	217	220	219	
SPGP	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	0	0	
TJGS	GT1A	138	175	178	152	151	151	150	152	151	229	154	185	137	219	166	225	209	227	135	219	214	221	223	205	194	183	181	
TJGS	GT1B	127	169	174	141	142	143	140	140	147	217	141	176	128	213	155	212	200	217	128	207	205	208	214	197	180	176	176	
TJGS	ST1C	174	203	206	182	185	185	182	179	182	213	210	198	179	237	192	223	205	241	199	237	222	242	230	229	222	211	207	
TJGS	GT2A	147	211	211	142	148	148	148	148	148	148	148	148	148	148	146	211	215	215	212	214	215	213	213	213	213	215	214	
TJGS	GT2B	144	207	207	136	144	144	144	144	144	144	144	144	143	144	144	145	142	143	208	210	210	210	210	209	207	181	212	
TJGS	ST2C	210	253	253	224	210	210	210	210	210	210	210	210	210	210	210	210	210	210	242	257	257	257	257	257	257	237	258	
YPKA	GT12	66	67	67	67	67	66	67	66	66	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	
YPKA	ST10	32	33	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	33	33	33	33	34	54	54	54		
Total CCGT-Gas		4016	4025	4024	3742	3756	3562	3529	3352	3387	3504	3477	3540	3385	3531	3361	3475	3436	4326	4316	4588	4622	4856	4954	5008	4852	4583	4498	
Total OCGT-Gas		0	0	0	0	0	0	0	0	0</																			

Daily MW Generation on Wednesday

		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	11	13	13	13	13	13	13	13	13	13	13	13	12	12	12	12	11	12	12	12	12	12	12	12	11	12	12	12	12	11	12	12	12	11	12		
CEND	HY01	6	6	6	6	6	6	6	6	6	6	6	6	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
CEND	HY02	6	6	6	6	6	6	6	6	6	6	6	6	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
CEND	HY03	6	6	6	6	6	6	6	6	6	6	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
HTRG	HY01	-1	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	124	124	62	125	125	64	-1	-1	-1	62	125	62	-1	-1	-1	-1		
KNRG	HY03	20	23	23	23	23	23	23	23	23	23	23	23	21	22	22	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	20	21		
KNYR	HY01	94	99	99	98	100	58	58	51	54	58	58	58	57	65	68	71	82	95	61	67	66	99	65	65	65	61	62	59	60	64	64	82	63	64	61	61	
KNYR	HY02	94	98	99	98	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	98	98	97	98	98	98	97	98	94	95	98	98	97	97	97	96	96	98	98	
KNYR	HY03	93	98	98	97	0	0	0	0	0	0	0	0	0	0	0	0	100	98	99	99	99	99	99	99	99	99	99	99	99	99	99	99	97	96	98	98	
KNYR	HY04	95	99	99	99	58	58	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
LPIA	HY01	16	16	16	16	16	16	16	16	16	16	16	16	16	18	18	18	17	17	17	17	16	16	15	15	15	15	15	15	15	15	15	15	15	15	16	18	
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16	16	15	15	15	15	15	15	15	14	14	14	14	14	14	16	18
MNOR	HY01	3	3	3	3	4	4	2	2	2	2	2	2	2	0	1	1	1	1	5	5	5	5	5	5	5	6	6	6	6	6	6	3	3	3	3	4	5
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY02	0	0	0	0	0	0	0	0	0	0	0	0	20	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1		
SIHY	HY01	30	30	30	30	30	30	30	30	30	0	0	0	0	0	0	0	0	0	51	51	31	30	51	51	51	51	51	51	51	51	51	51	30	0	0	30	
SIHY	HY03	0	0	0	30	30	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	
SYPS	HY01	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
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	0	0	0	0	0	0	0	0	0	0	0		
SYPS	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	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	0	0	0	0	0	0	0	0	0	0	0		
TMGR	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
TMGR	HY02	29	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		
TMGR	HY03	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1		
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	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
UPIA	HY01	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
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	5	5	5	5	5	5	5	5	5	5	5		
Total Hydro		540	634	571	598	364	322	261	254	257	201	201	201	220	228	191	194	206	313	698	614	521	555	644	639	669	612	619	665	670	792	792	746	882	790	650	535	
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	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	1	3	7	8	12	17	19	15	18	22	26	19	25	26	23	23	18	19	16	8	11		
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	12	17	16	18	29	34	22	34	29	24	21	21	22	17	30	39	12	15	8			
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	8	8	18	8	11	19	14	27	39	43	36	21	31	16	25	23	14	12		
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	5	4	2	2	5	5	12	15	21	20	15	23	11	12	12	17	23	10	7	5		
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	9	14	20	26	31	34	42	33	17	47	36	33	17	28	16	13	10	9			
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	15	13	24	25	32	22	36	30	35	28	32	26	21	9	7	13	20	13	11		
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	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	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	1	5	13	20	20	33	23	32	18	53	10	26	58	48	27	31	42	7	6	13	10		
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	13	16	24	29	32	35	37	33	40	23	35	35	25	25	14	13	13			
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	33	73	97	118	163	176	220	275	320	287	286	337	324	266	238	240	235	202	190	158		
PCUF	CUFG	3	5	2	4	3	4	4	4	4	2	4	4	4	4	3	4	4	3	4	3	3	2	32	32	31	31	31	31	31	32	4	2	3	5			
PCUF	CUFK	3	5	2	3	1	2	3	5	5	3	5	3	2	2	2	3	4	3	5	2	1	2	3	4	4	4	3	3	26	29	28	27	28	30			
Total Co-Gen		6	10	4	7	4	6	7	9	9	7	7	7	6	6	6	6	8	7	9	5	5	4	7	7	8	7	6	5	58	61	59	58	59	61			
Total Gen		14573	14157	13995	13741	13520	13285	13212	12997	12895	12756	12648	12656	12664	12839	12695	12775	13147	14323	14809	15406	15683	16106	16436	16545	16497	16285	16177	16502	16627	16901	16840	16910	16997				
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		
TIE-HVDC		-28	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-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																									
TIE-PLTG		45	-52	37	-4	57	-23	15	24	20	-9	-2	-3	34	32	-33	-3	-25	-14	-48	28	29	-22	0	38	31	26	9	27	-52	-46	-69	-41	-25	-77	36	-10	23	21	41	89	6	37	-7	36	50	43	12	44	
Interconnection		17	-82	7	-32	28	-52	-14	-5	-9	-38	-31	-32	5	4	-62	-32	-54	-43	-77	-1	0	-51	-29	9	2	-3	-20	-2	-81	-75	-98	-70	-54	-106	7	-39	-6	-8	12	59	-23	9	-36	7	21	14	-16	16	
System Total		14560	14242	13991	13776	13495	13341	13230	13006	12908	12798	12683	12692	12663	12839	12761	12811	13205	14370	14890	15411	15687	16161	16469	16540	16499	16292	16201	16508	16712	16980	16942	16984	17055	16916	16480	15883	15284	15062	15085	15810	16067	16079	15937	15681	15428	15346	15163	14922	
SRev ST-Coal		244	484	479	489	476	482	457	490	549	620	783	788	646	622	653	634	479	535	457	378	203	130	144	139	167	19	47	175	189	231	210	203	211	218	234	197	197	214	189	204	153	94	67	87	96	141	183	327	
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 CCGT-Gas		1453	1084	1085	1367	1353	1547	1580	1757	1722	1605	1632	1569	1724	1578	1748	1634	1673	783	793	521	640	479	347	303	459	728	966	748	654	405	439	331	368	429	585	1069	1281	1306	1270	720	540	544	736	934	1160	1269	1432	1474	
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 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	0
SRev Co-Gen		66	62	68	65	68	66	65	63	63	65	65	65	66	66	66	66	64	65	63	67	67	68	65	65	64	65	66	67	14	11	13	14	13	11	10	59	66	67	63	68	65	67	64	66	67	70	64	64	
Syncon		826	700	826	826	927	927	1028	1028	1028	1028	1028	1028	1179	1179	1179	1179	516	703	890	890	739	739	613	588	739	739	739	764	764	764	577	764	764	977	764	977	977	851	700	851	826	977	977	977	977	977	977		
Hydro		188	221	158	131	164	205	165	172	169	175	175	306	298	154	151	144	127	405	302	208	174	336	341	437	519	361	415	410	263	263	309	360	265	305	207	203	204	354	329	286	320	194	187	190	182	196	178		
S.Reserve Total		2777	2551	2616	2878	2988	3227	3295	3510	3531	3493	3683	3625	3770	3592	3805	3669	3539	2689	2234	1971	2008	1741	1631	1587	1740	1919	2179	2144	2006	1674	1689	1621	1529	1687	1898	2509	2749	2768	2727	2021	1895	1851	2038	2251	2490	2639	2852	3020	