

Estimate of Covid-19 load impacts

vermont electric power company



April 1 2020

Recent energy reduction observed

Year	Total Q1 energy	Total March energy	% drop in March energy	Average hourly March load	Total March HDD	Total March Precipitation	Annual PV addition
2016	1,460,908	463233		623	867	2.26	
2017	1,431,333	481165	-4%	648	1157	3.27	59
2018	1,440,896	456039	5%	614	1039	2.63	49
2019	1,423,642	450526	1%	606	1066	2.31	58
2020	1,333,156	407105	10%	548	851	2.01	-----

- Loads are lower in March 2020 for several reasons (2020 numbers estimated based on data as of March 30th)
 - Weather – it has been warmer (851 HDD vs 1050)
 - Behind the meter generation (58 MW of solar PV in 2019)
 - Covid-19 – some of the directives affect consumptions

Governor Scott Order EO 01-20

1. **Original Order – March 13th**
 - Prohibits gatherings of more than 250 people; Restricts visitor access to long term care facilities; Suspends non-essential out-of-state for travel state employees; Encourages employees telecommuting
 - **March 15th Directive 1 – Public and independent schools are dismissed by Wednesday March 18th**
2. **Addendum 1 – March 16th** Prohibits gatherings of more than 50 people or 50% of the occupancy of a facility
3. **Addendum 2 – March 16th** Bars, restaurants and similar establishments only offer take-out and delivery of food on March 17th
 - **March 17th Directive 2 – All state regulated child care programs to close no later than Wednesday March 18th**; Other child care programs and schools encouraged to follow spirit and guidance of Directive
 - **March 18th Directive 3 – DMV services provided online, by mail or phone. All other in-person services suspended; DMV Commissioner to develop Continuity of Services Plan; expiration dates extended 90days**
 - **March 19th Directive 4 – Take out, curbside pickup, delivery of alcohol products allowed**
4. **Addendum 3 – March 20th** Suspends all non-essential adult elective surgery and medical procedures
5. **Addendum 4 – March 21st** Prohibits in-person operations at close-contact businesses by 8:00 p.m. on Monday, March 23; Other businesses implement CDC guidance to ensure social distancing; Prohibits non-essential gatherings of more than 10 people; Enterprises post notices requiring compliance with CDC and VT Dept. of Health recommendations
6. **Addendum 5 – March 23rd** Work from home for all businesses and non-profits
7. **Addendum 6 – March 24th** Stay at home; Businesses and non-profits to suspend in-person transactions on March 25th, except those entities critical to public health and safety , as well as economic and national security
 - **March 26th Directive 5 – Schools are required to have continuity of learning plans for remote learning implemented on or before Monday, April 13, 2020.**
8. **Addendum 7 – March 30th** Quarantine (14 days) prohibitions for travelers arriving in Vermont; Online reservations suspended; Lodging restricted

Typical daily loads in March

Time	2016	2017	2018	2019	2020	Typical (2016-2019)	2020 %drop
1	535	573	545	566	508	555	8%
2	520	559	530	553	496	540	8%
3	514	552	524	547	493	534	8%
4	517	555	526	550	498	537	7%
5	534	573	544	568	520	555	6%
6	581	618	587	613	563	600	6%
7	649	682	650	675	609	664	8%
8	680	709	679	693	607	690	12%
9	677	696	665	662	561	675	17%
10	667	675	639	622	513	651	21%
11	655	657	613	593	487	629	23%
12	642	642	595	573	466	613	24%
13	629	627	579	555	455	598	24%
14	622	622	576	548	456	592	23%
15	617	623	582	549	466	593	21%
16	624	638	598	575	509	609	16%
17	650	674	633	624	572	645	11%
18	686	718	681	684	636	692	8%
19	715	745	711	721	665	723	8%
20	715	741	709	720	657	721	9%
21	703	718	685	698	631	701	10%
22	651	684	651	667	597	663	10%
23	597	637	609	627	558	617	10%
24	557	594	568	588	524	577	9%



Graphical comparison

Time	2020	Typical (2016-2019)	2020 %drop
1	508	555	8%
2	496	540	8%
3	493	534	8%
4	498	537	7%
5	520	555	6%
6	563	600	6%
7	609	664	8%
8	607	690	12%
9	561	675	17%
10	513	651	21%
11	487	629	23%
12	466	613	24%
13	455	598	24%
14	456	592	23%
15	466	593	21%
16	509	609	16%
17	572	645	11%
18	636	692	8%
19	665	723	8%
20	657	721	9%
21	631	701	10%
22	597	663	10%
23	558	617	10%
24	524	577	9%

