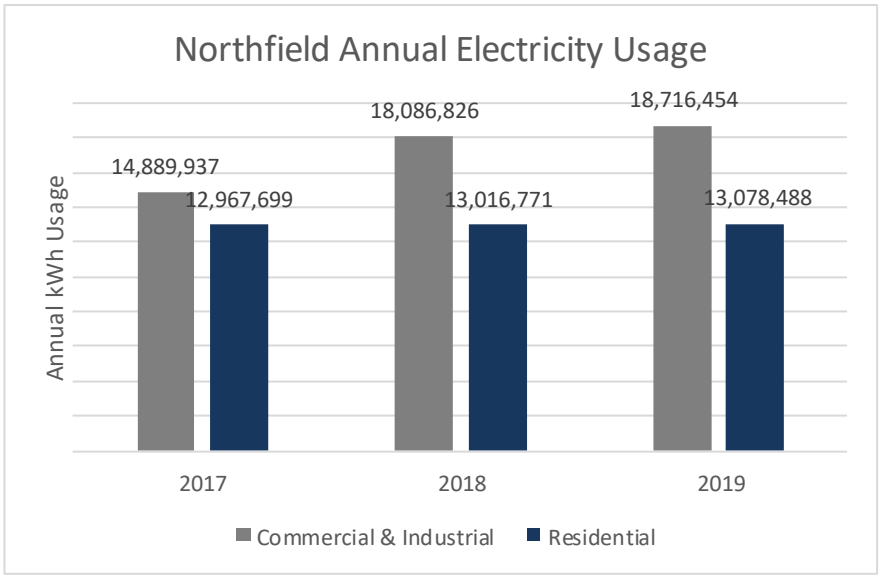
2017-2019 Northfield Efficiency Vermont Data Report

The following report is a summary of data provided by Efficiency Vermont, tracking various energy indicators annually. This report is updated annually for Northfield by the Central Vermont Regional Planning Commission.

Electricity Usage

In 2019, Northfield used 13,078,488 kilowatt hours (kWh) for 2,100 residential users and 18,716,454 kilowatt hours for Commercial and Industrial Users.

The average home in Northfield used 6,228 kWh in 2019. This is **lower** than the average home in the Central Vermont region, which used 6,251 kWh in 2019.



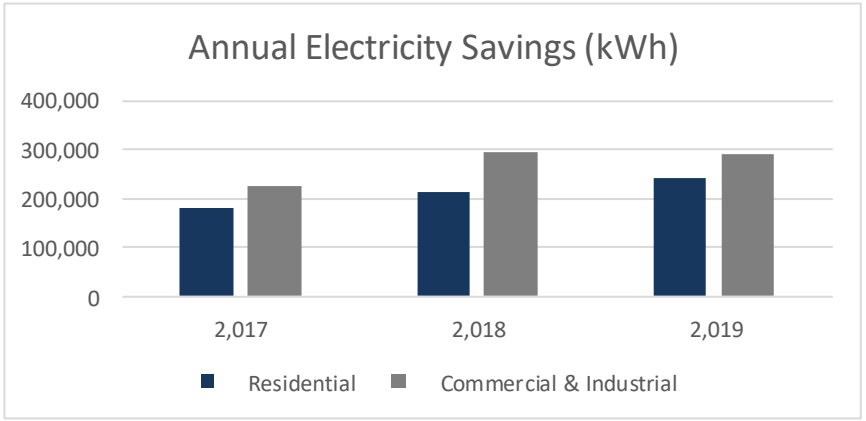
Savings

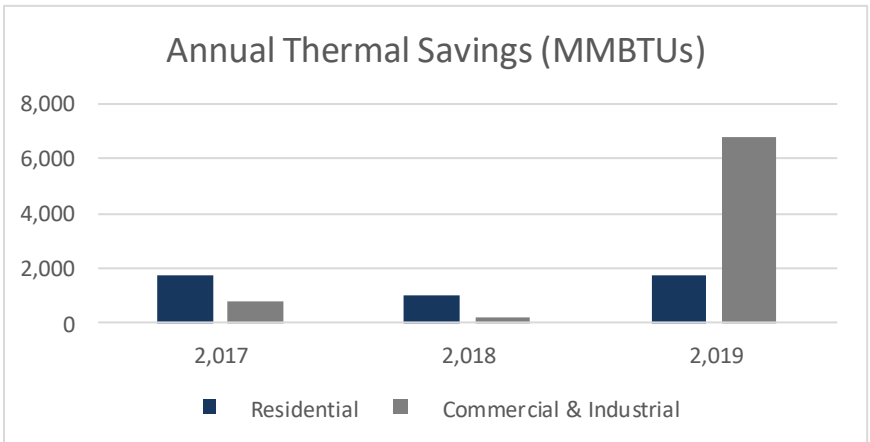
Upgrading and weatherizing our homes can provide significant savings in how much energy we use, as well as how much money we spend.

Between 2017 and 2019, Northfield saved 1,452,082 kWh of electricity town-wide through efficiency measures. Northfield also saved 12,242 Million British Thermal Units (MMBTUs) of heat between 2017 and 2019. This has resulted in cost savings of $354,204 town-wide.

Over the lifetime of these energy efficiency improvements, Northfield has saved a total of 13,800,768 kWh!

$354,204 Saved



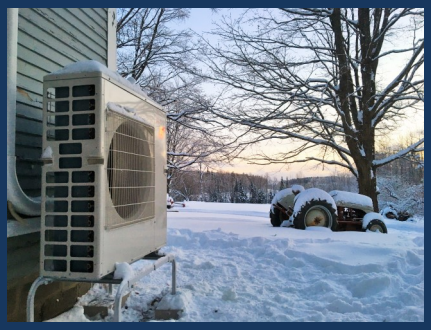


Projects

Efficiency Vermont tracks weatherization projects as a combination of various improvements. Below, please see the projects and activities undertaken in Northfield between 2017 and 2019. These projects are the key to improving efficiency in your community!

	2017	2018	2019	Total
Residential Projects				
Total Residential Projects (includes projects below)	60	133	201	394
Home Performance with ENERGY STAR® Projects	5	5	10	20
Other Weatherization Projects	0	0	2	2
Residential New Construction Projects	0	0	1	1
Other Selected Measure and Engagement Counts				
Home Energy Visits	0	9	28	37
Heat Pump Hot Water Heaters Installations	7	25	18	50
Cold Climate Heat Pump Installations	9	14	13	36
Wood Heating Installations	4	2	13	19
Commercial and Industrial Projects				
Total Commercial & Industrial Customers Served	114	104	84	302
Total Commercial & Industrial Projects	60	51	53	164
Small & Medium Business Walkthroughs	0	0	14	14
Cold Climate Heat Pump Installations	0	2	0	2
Heat Pump Hot Water Heaters Installations	0	1	0	1
Wood Heating Installations	0	0	0	0

What is a Heat Pump, and why should I switch?



(Photo—Catamount Solar)

Heat pumps use electricity and external power from the ground, air, and water to move heat from a cool space to a warm space. For climates with moderate heating and cooling needs, heat pumps offer an energy efficient alternative to oil and gas powered furnaces and air conditioners. The three types of heat pumps include air to air, water source, and geothermal. They collect air, water, or ground heat outside the home and concentrate it for use inside. Heat pumps consist of four main components; a condenser, an expansion valve, an evaporator, and a compressor.

A heat pump can reduce electricity use for heating by around 50% compared to less efficient heating resources like furnaces and baseboard heaters. Heat pumps become less efficient when the temperature difference between the heat source and sink increases.

In 2019, Northfield had an estimated 13 Cold Climate Heat Pumps installed. Over the past few years, the Town has seen 36 heat pumps installed. If you're interested in a heat pump, please visit Efficiency Vermont's website for more information!

Ready to get to work?

Please contact the **Northfield Energy Committee** via the links below:

- Northfield Energy Committee Webpage: http://www.northfield-vt.gov/text/NEC.htm
- Northfield Energy Committee Facebook Page: https://www.facebook.com/NorthfieldEnergy/
- Northfield Webpage: http://www.northfield-vt.gov/

Meets every third Tuesday at 6:00pm

For more information on data, please visit https://www.centralvtplanning.org
or contact Zachary Maia at maia@cvregion.com // 802.229.0389.