

The Big Electrification Goal for Addison County (and all Vermont) Homes:

- 50% reduction in Carbon (CO₂) output by 2030, 100% reduction by 2050
- 100% reduction by 2030 would be even better!

Why should we care and do this work?

<https://ceacac.org/climate-action-planning/>

- We're already seeing the effects of Climate Change in our state, our country, and the world.
- We only have a limited amount of additional carbon we can burn to keep climate change from becoming catastrophic, and change is already happening faster than expected.

What does this mean? Per the CEAC Climate Action Plan we need to:

- Remove the equivalent of 500 gallons of oil of energy use from 1000 residential units per year in Addison County from now through 2030.
- This will require 5000+ weatherization efforts and 6700+ new heat pump installations by 2030 in Addison County, and then we need to keep up that pace through 2050.

How can we do this?

Understand your carbon footprint with an online calculator like this:

- <https://coolclimate.org/calculator>, or <https://www3.epa.gov/carbon-footprint-calculator/>
- Provides the big picture, then you can choose an area or two to work on reducing each year.

Calculate the Energy Use Intensity of your home (you can do this even before an audit.) Energy Use Intensity in kbtu/sf/yr is based on energy bills and house square footage. (See attached)

- If your EUI is under 35-40 with fossil fuel heat and hot water, add heat pumps and electrify most things, and you'll be net-zero ready! Then add solar panels to cover your electric load.
- If EUI is over 40, you have some opportunities- get an energy audit to plan weatherization and electrification of heating and HW systems with heat pumps to get you where you want to be.

Make a Plan to Electrify every piece of equipment as it wears out:

- Furnace or boiler, hot water heater, clothes dryer, range, lighting, car, mower...
- Efficiency Vermont offers rebates on heat pumps, heat pump hot water heaters and...: <https://www.efficiencyvermont.com/rebates>
- Check out Rewiring America for all of the rebates and tax credits coming on line this year through the Inflation Reduction Act: <https://www.rewiringamerica.org/app/ira-calculator>

Weatherize your home, or do a deep energy retrofit if you are planning a renovation.

- Start with what you can weatherize on your own- Button-Up style: <https://buttonupvermont.org/watch-learn>
- Change out your faucets and showerheads to low-flow WaterSense fixtures.
- Get an Energy Audit to provide information about where best to spend resources improving your home, and a decarbonization plan for the next 7-10 years.
- Financial assistance is available through various sources depending on your income.

Add solar PV or buy into community solar when you know your electrified electricity use.