

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

- 50% reduction in Carbon (CO<sub>2</sub>) 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.encyvermont.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.**