

# Efficiency Vermont Overview

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Senate Natural Resources and Energy  
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Efficiency  
Vermont

# Who we are

- Statewide\* energy efficiency utility
- Help Vermont transition to more affordable, low carbon energy use through education, incentives, and support for our clean energy workforce
- U.S. Environmental Protection Agency ENERGY STAR – Sustained Excellence partner



## Efficiency Vermont



Upstream  
Supply Chain  
Engagement



Education,  
Promotion & 1:1  
Guidance



Rebates,  
Incentives &  
Financing



Engineering &  
Project Support



Partnerships

# Program Impact

**Over \$3  
billion**

Lifetime savings  
from 2000-2021

**Over 13  
million metric  
tons of CO<sub>2</sub>e**

Lifetime avoided  
from 2000-2021

**2.8 million  
cars**

Equivalent impact  
of GHG emissions  
avoided

**36% lower**

Vermont's average  
energy bills, below  
the national  
average

**9,909 jobs**

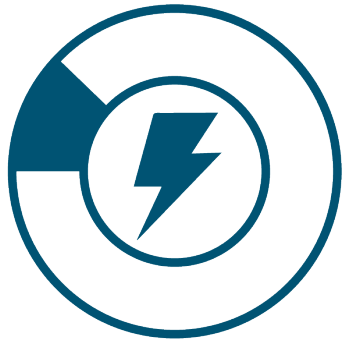
Vermont's energy  
efficiency jobs –  
62% of the clean  
energy workforce

**482  
businesses**

Efficiency  
Excellence  
Network members

# The economic value of efficiency

Efficiency comprises **over 15%** of VT's electric portfolio, delivered at **75%** of the cost of purchasing new power.



**15.1%**

Percentage of Vermont's 2021 electric needs met by efficiency



**5.32¢/kWh**

Cost of saving electricity with efficiency



**7.4¢/kWh**

Cost of supplying electricity

**vs**



**\$13.00/MMBtu**

Cost of saving fossil fuel with efficiency

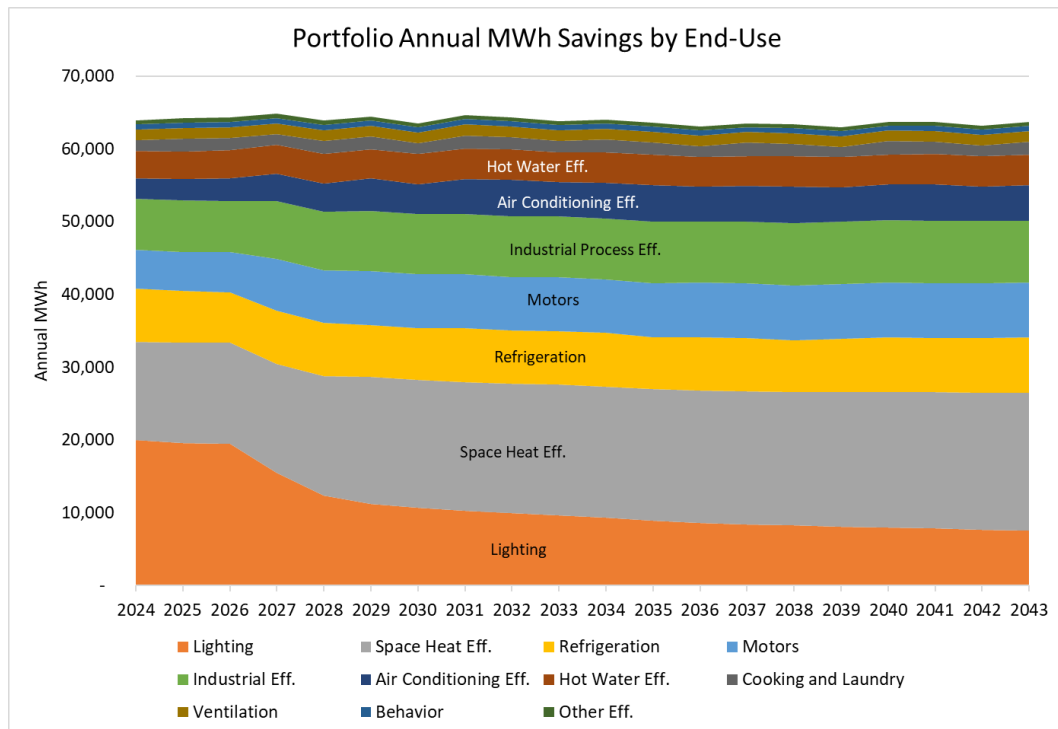


**\$23.55/MMBtu**

Cost of supplying fossil fuel

**vs**

# Planning Vermont's Investment in Efficiency

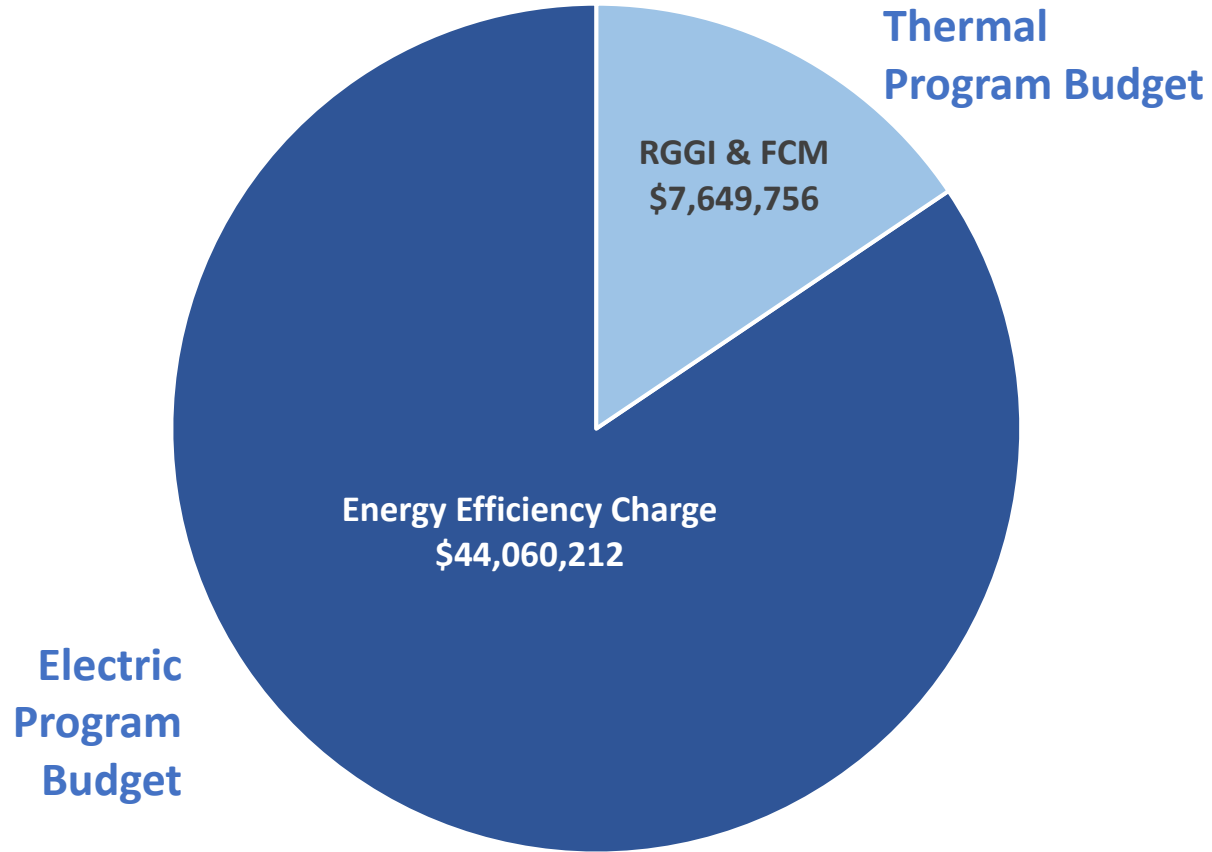


## Demand Resource Plan

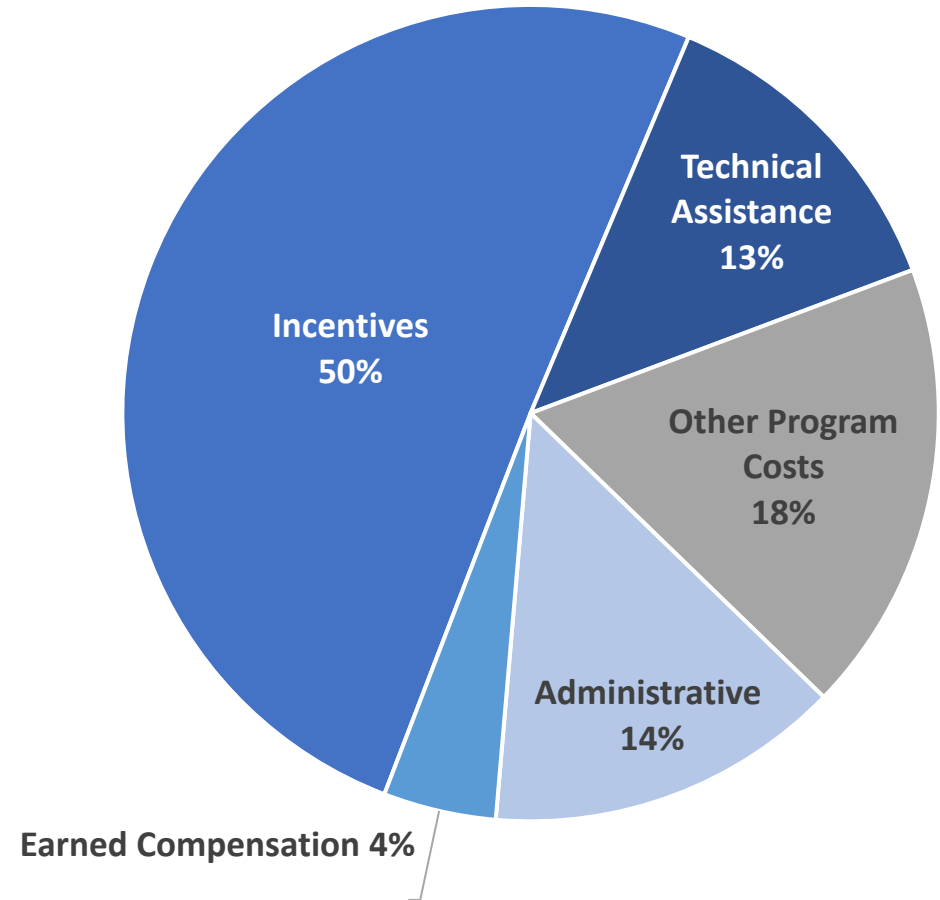
- PUC oversees a long-term 10, 20-year plan for efficiency investments
- Efficiency Vermont develops modeling and forecast trends to propose future efficiency opportunities and investments
- Electric budget is approved by PUC, intended to achieve all reasonably-available cost-effective efficiency
- Thermal efficiency budgets are modeled based on RGGI & FCM revenue projections

# 2021 Efficiency Vermont Budget Breakdown

Source of Funds



Uses of Funds



# What we do





## Efficiency Vermont



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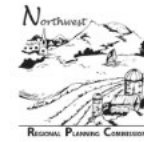


Engineering &  
Project Support



Partnerships

# Partnerships



# Efficiency Excellence Network

- 482 members, (70 members located outside Vermont), 946 services
- Retail sales incentives to influence efficient product stocking practices
- Find a member:  
[www.encyvermont.com/Pro](http://www.encyvermont.com/Pro)
- Better Buildings By Design 2023  
**Mission to No Emissions:**  
**Connect, Create, Innovate**



# Education & Promotion

## Website Engagement

- 460,000 Users annually
- 1.9 Million Pageviews annually
- “How-To” guides, Customer stories published monthly

## Newsletters

- 35,000 subscribers, continued growth (+23% YOY)

“Find-A-Pro” digital tool

[www.encyvermont.com/Pro](http://www.encyvermont.com/Pro)

Retail Marketplace - Compare efficient products

[www.encyvermont.com/Shop](http://www.encyvermont.com/Shop)

Compare EVs to ICE

[www.encyvermont.com/ShopEVs](http://www.encyvermont.com/ShopEVs)

In-Person & Digital educational events & tabling



# Engineering & Project Support

- Energy Consultations
  - Deliver an understanding of which systems are wasting energy
  - Savings analysis that identifies the right technology for *their* situation
- Prioritized plans that cost-effectively reduce energy waste
  - Objective, 3<sup>rd</sup> party recommendations
  - Understand the investments that will unlock value and growth
- Technology specific subject matter expertise
- Coordination with additional resources and project partners



# Residential Energy “Coaching”

## Virtual Home Energy Visits

- 2 Energy Consultants, 3 backup (high volume)
- 526 completed (2022)

## Energy Advisor Team

- 5 Energy Advisors
- Provides review of utility bill(s), diagnosis of high-energy using devices, best next steps, program navigation (both EVT & statewide)
- 21k Calls handled (2022)

**“It was easy. A quick video call – no selling, no pushing. It was really about helping me understand, and it was a million times better than trying to read about it on the Internet. I wish all things were that easy.”**

Bill  
Barre, VT



# Thermal

Efficiency  
Vermont

# Weatherization

## An on-ramp for every Vermonter

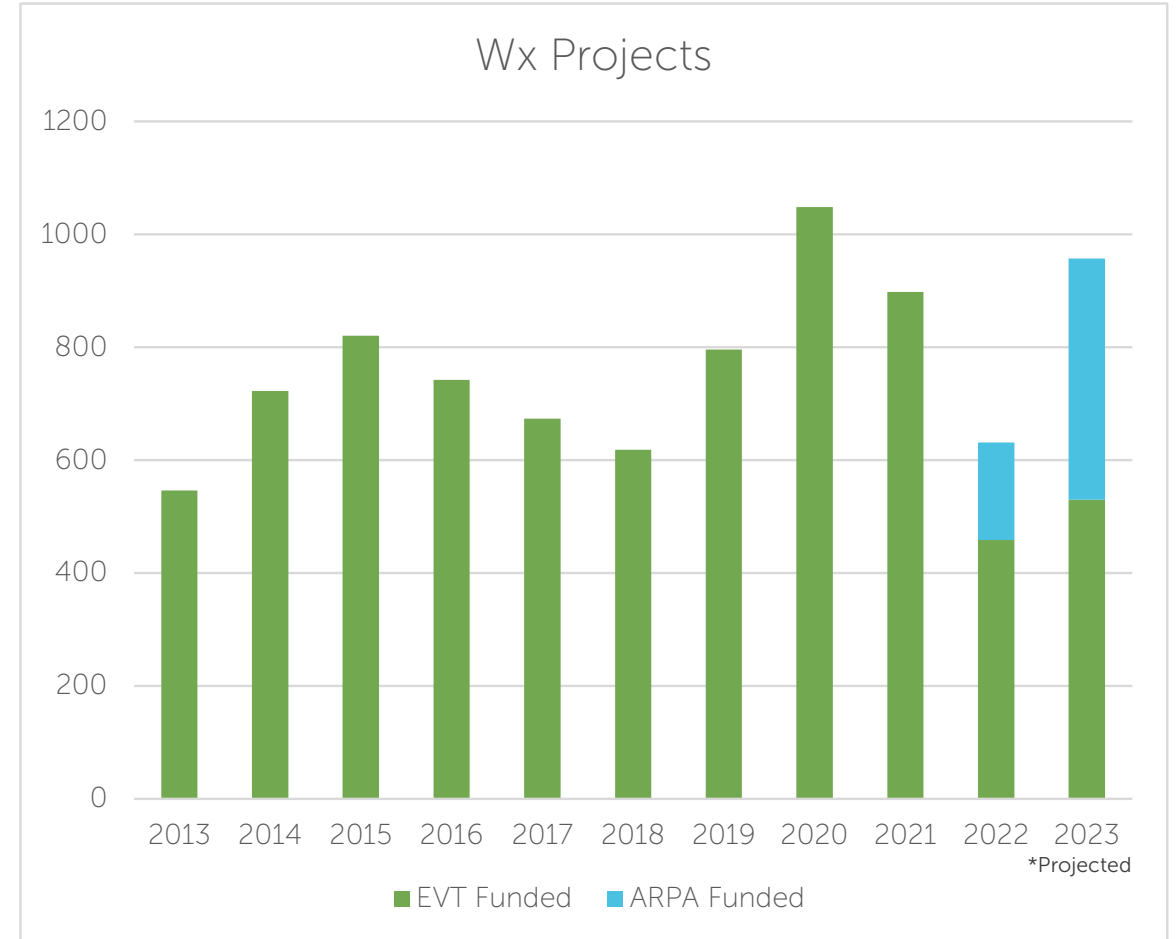
- DIY Weatherization Program
  - \$100 back to homeowners who complete small-scale weatherization projects on their own
- Low-Income Multifamily Retrofit
  - Support for renters and multi-family dwellings through a contract delivered by with 3E Thermal
- Home Performance with ENERGY STAR
  - Comprehensive weatherization, with bonus incentives for income qualified Vermonters (75% off project costs)
  - Free weatherization services for LI Vermonters through OEO





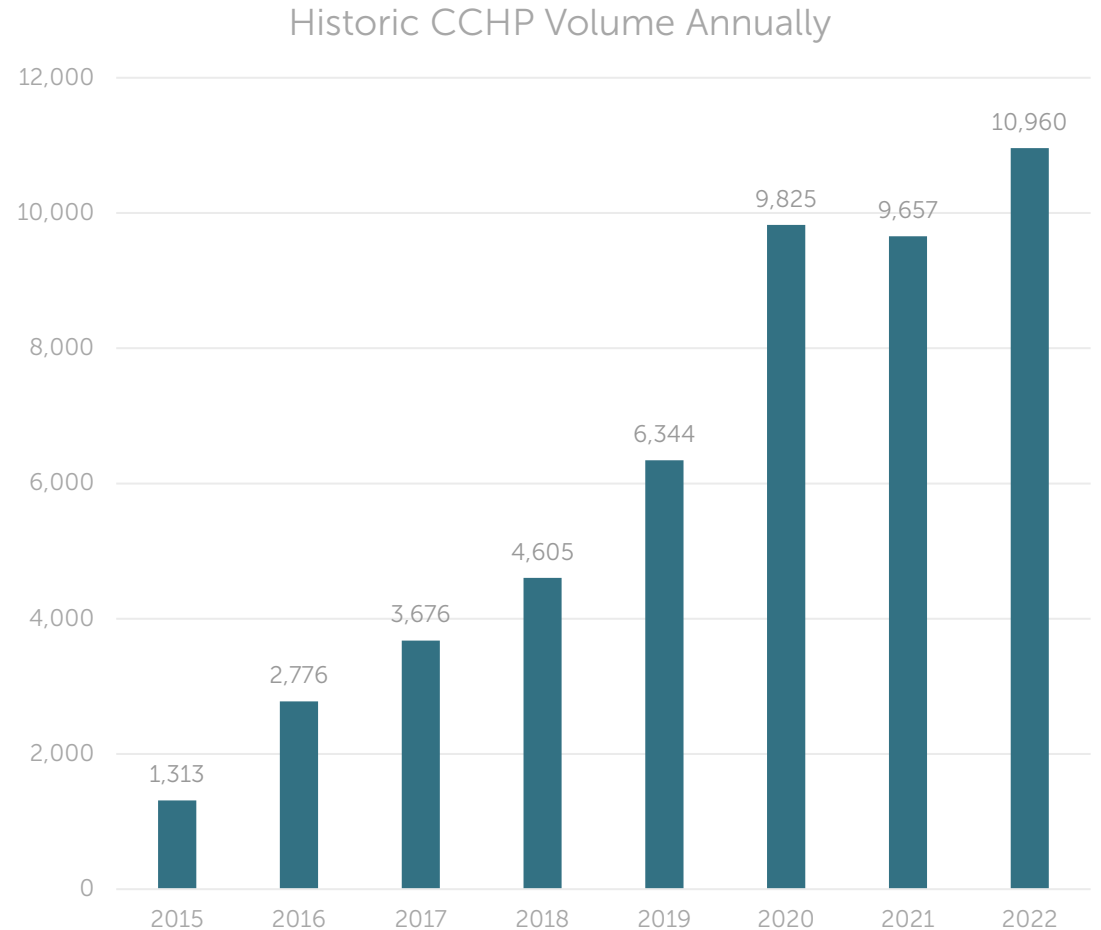
# Future Forecast: Projects At-A-Glance

- Average total project cost ~\$9,300 (increase from ~7,700 in 2019)
- Planning for federal funding - new offers & enhancements to MI incentives
- Working holistically across the supply chain to increase capacity & recruitment
- Robust promotion to increase customer awareness of benefits & offers
- On-bill Financing (WRAP) & 0% Interest Loans (Home Energy Loan) available
- Multifamily Wx delivered through 3E thermal contract

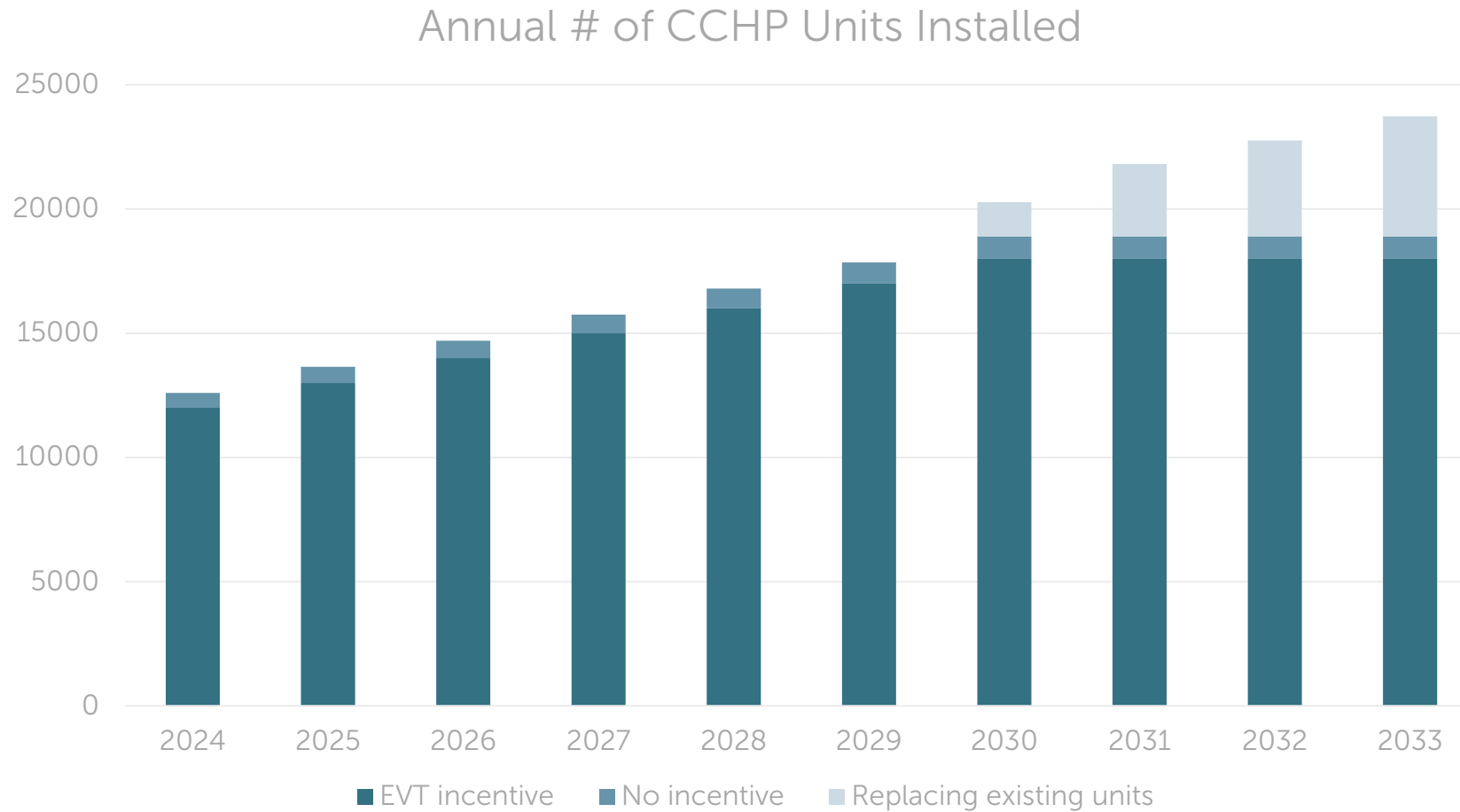


# CCHP Adoption: a VT Success Story

- Collaboration with Heat Pump manufacturers to design “cold-climate” capabilities
- Piloted in 2015
- Workforce training & product promotion
- Statewide partnerships to increase impact and growth
- Tenfold increase in seven years



# Forecast: Cold Climate Heat Pumps



# Act 151: Thermal

## Low-Income Fuel Switch Pilot

- Launched Heating Electrification pilot in October 2022
- Goal: Install 300 heat pumps at no cost
- Helps DUs meet their goals to serve LI customers
- Over 50% subscribed within the first 4 weeks
- 13 participating EEN members
- Eligible customers include those previously served by Weatherization Assistance Programs & whose primary heat is fossil fuel based



# Transportation

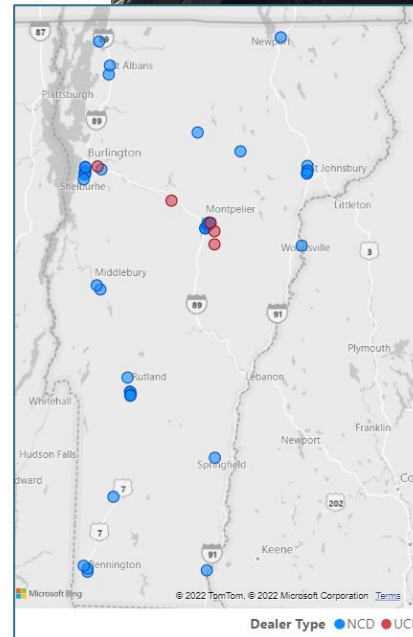
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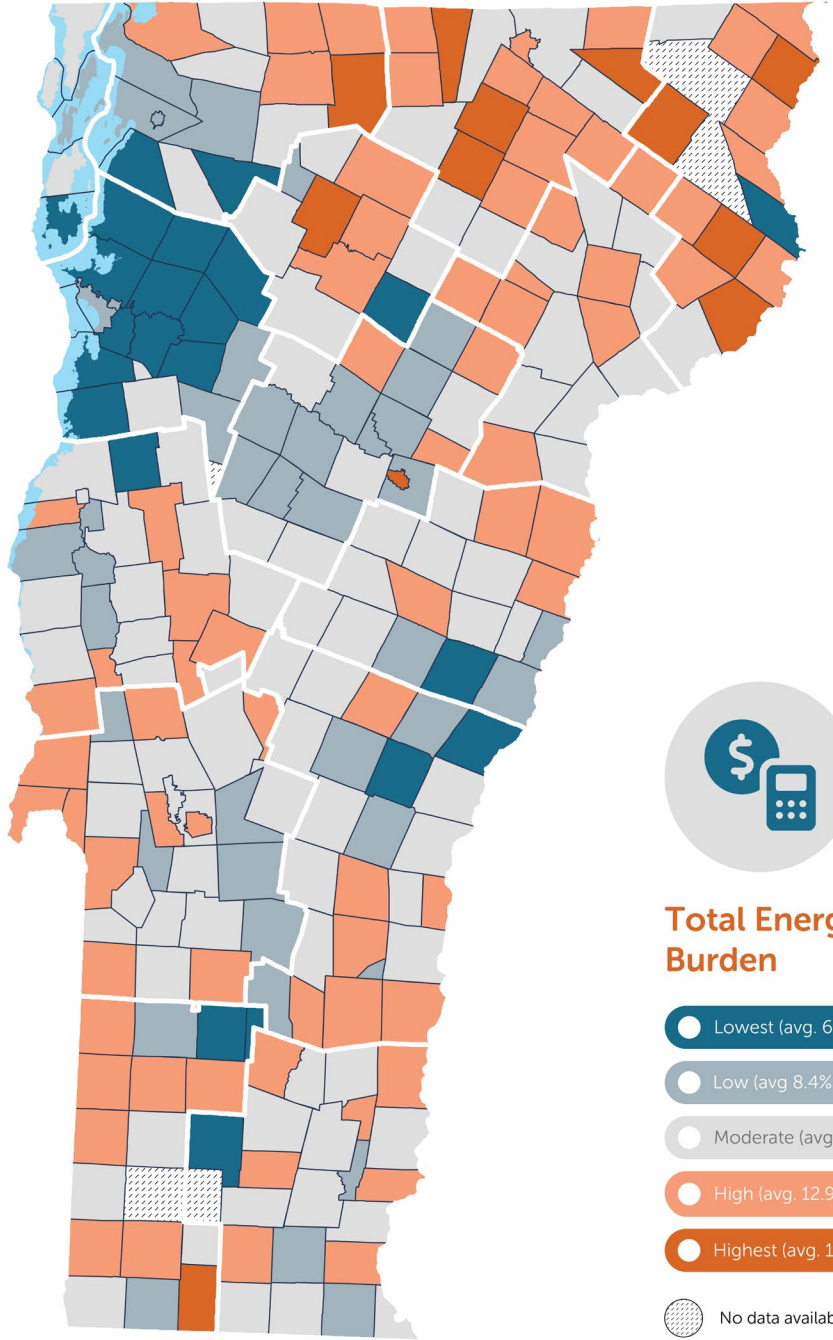
# Act 151: EVs

## Supporting EV Adoption

- Efficiency Vermont Act 151 program focus: **transportation electrification**
  - EV supply chain development
  - EV consumer awareness and education
- Dealer program launched in fall 2021 and will run through end of 2023, in conjunction with statewide EV education campaign
- **50 participating** new & used car dealers representing 12 counties
- Statewide, multi-channel ad campaign in partnership with Drive Electric Vermont, **164% increase** in DEV site engagement since start of campaign



# Looking Forward: Building Energy Equity in Vermont



# Learning from “Focused Communities”

## Brattleboro

- Home to the Elnu, an Abenaki tribe
- Multicultural Community Center is the largest refugee center in the state
- Renter population ~ over 50%
- Home to the largest mobile home park in the state
- High housing burden: Housing costs make up more than 50% of income for 22% of households.

## Winooski

- Most diverse community, 31 languages spoken in schools
- Designated refugee resettlement community
- 60% of Winooski’s housing stock is rented
- Housing costs make up more than 50% of income for 19% of households (state average of 15%)





# Focus On Equity

- **IDEAS Generation consultant**  
A 501(c)3 nonprofit helping embed IDEAS values into teams, cultures, programs, policies & structures
- **Translation Services**  
Available on website, in Customer Support center & collateral materials
- **2024-2026 Demand Resource Plan proposal filed**
  - Devotes resources to public engagement and defining updated equity metrics
  - New equity measures & metrics to enable flexibility/easier access for underserved communities
  - Increases low-income spend

## 2023

- **Social Equity Bonus for businesses** – Launching February 1, 2023  
Receive a bonus rebate of up to \$1,000, in addition to standard incentives
- **2023 Energy Burden Report** – Q2 2023  
Update to [2019 paper](#) analyzing energy burden of each town in Vermont
- **New Program Design:** Leveraging Federal Funds to increase equity & access

# Federal Funding

- School indoor air quality - \$15M
- Moderate-income weatherization - \$5M
  - HPwES enhanced LMI incentives – launched July 1, 2022
  - LI MF weatherization retrofits – launched Q4 of 2022
  - Mobile and manufactured home pilot – in development
- Weatherization workforce development - \$2M
- Moderate-income weatherization, tranche 2 - \$35M
- Switch & Save – up to \$5M
- Inflation Reduction Act –approx. \$59M statewide, two pathways
  - Home weatherization rebates, based on high levels of savings (measured/modeled)
  - Home electrification rebates – income qualified, point of sale rebates

# Questions?

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[efficiencyvermont.com](http://efficiencyvermont.com)

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