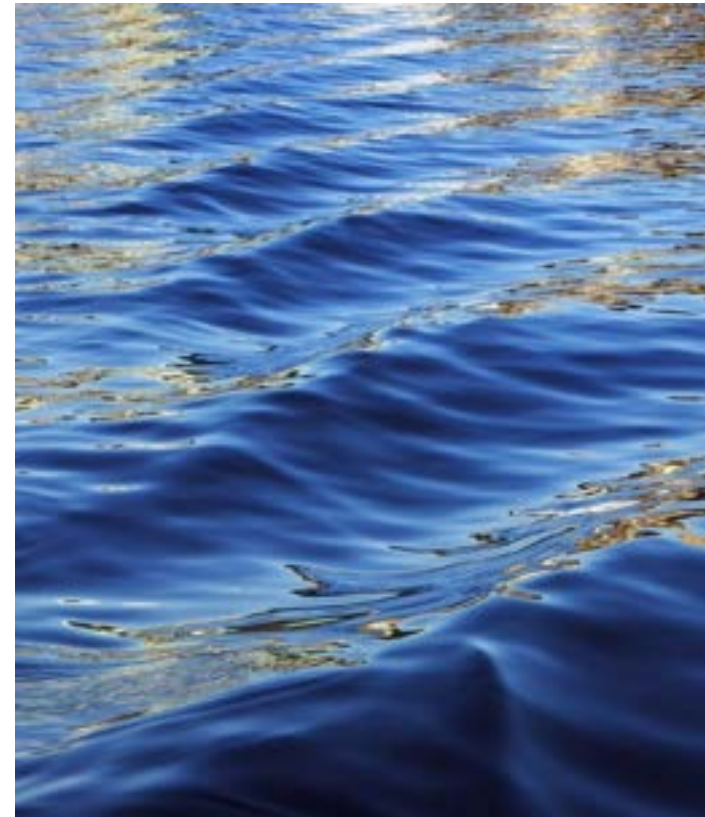


Envisioning an Equitable Transition to Clean Energy for All

Incentives and Solutions for Individual Action



Bringing the Vision to Everyone

Creating Space for Conversation

Easily Accessible Information

Answers to Questions

Focus Groups and Listening to Marginalized Communities

Acknowledging Concerns and Unique Situations

Multiple Approaches and Solutions

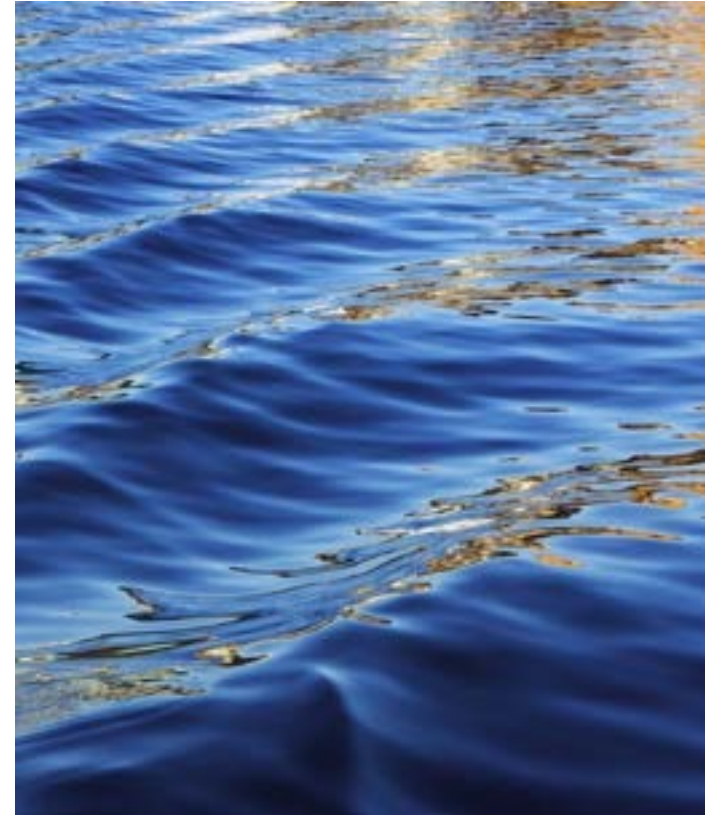
Recognizing People's Discomfort with Change

Addressing Barriers



The Inflation Reduction Act

Residential Energy Efficient Tax Credit
Residential Clean Energy Tax Credit
Clean Vehicle Credit



- IRC 25C
- Residential Energy Efficient Tax Credit
 - Qualified Electrical Upgrades
 - Placed in service between 01/01/2023-12/31/2032
 - Available yearly for new upgrades
 - Capped 30% tax credit for:
 - Heat pumps (up to \$2000)
 - Hot water heat pumps (up to \$2000)
 - Biomass stoves and boilers (up to \$2000)
 - Energy Efficient oil furnace or hot water boiler using biodiesel or renewable diesel until 1/1/2027 (up to \$2000)
 - Electric panel upgrades (up to \$600)
 - Weatherization measures
 - Insulation (up to \$1200)
 - Doors (up to \$500)
 - Windows (up to \$600)
 - Electrical panel (up to \$600)
 - Energy audit (up to \$150)

Fact sheet about 25C and 25D from Rewiring America
https://assets.ctfassets.net/4qx5q5044nj/3FYfJiYMILiXGFghFEUxoD/279f180456183d560d9c68d4de8baa67/factsheet_25C_25D.pdf

<https://www.law.cornell.edu/uscode/text/26/25C>

- IRC 25D
- Residential Clean Energy Tax Credit
- Tax-credits carry-forward
- 30% uncapped credit for:
 - Solar Electric
 - Solar Water Heating
 - Battery Storage
 - Geothermal Heating
 - Fuel Cell
 - Small Wind Energy

Fact sheet about 25C and 25D from
Rewiring America

https://assets.ctfassets.net/v4qx5q5044nj/3FYfJiYMILiXGFghFEUxoD/279f180456183d560d9c68d4de8baa67/factsheet_25C_25D.pdf

<https://www.law.cornell.edu/uscode/text/26/25D>

- IRC 30D
- Credit for New Clean Vehicles
- Up to \$7,500 for new, qualified plug-in EV or fuel cell electric vehicle
- Vehicle purchased after January 1, 2023 qualifies; however, if purchased after April 18, 2023, must meet both the critical minerals requirement and the battery component requirement for the full \$7500, otherwise \$3750 for meeting just one requirement.

<https://afdc.energy.gov/laws/409>

<https://www.irs.gov/credits-deductions/credits-for-new-clean-vehicles-purchased-in-2023-or-after#:~:text=Who%20Qualifies,purchased%20from%202023%20to%202032>



Efficiency Vermont

Low Interest Loans and Rebates for:

- Weatherization
 - Heat Pumps
 - Hot Water Heat Pumps
 - Wood and Pellet Stoves
 - Energy Efficient Appliances
- 

- Rebates for a variety of home energy improvements with an income eligible bonus of \$500:

- Ductless heat pumps
- Ducted heat pumps
- Air-to-water heat pumps
- Ground source heat pumps
- Hot water heat pumps
- Central wood pellet furnaces and boilers
- Wood and pellet stoves
- Energy efficient appliances
- Electric lawn care
- EV charging equipment
- Home insulation and air sealing
- And more

<https://www.encyvermont.com/rebates>

<https://www.encyvermont.com/rebates/list?type=res>

- Low and no interest clean energy loans (income eligible can qualify for lowest rates/under \$90,000 and less than 5 years is 0% interest)
 - Cold-climate heat pumps
 - Central wood pellet heating systems
 - Heat pump water heaters
 - Weatherization improvements
 - Health and safety repairs needed as part of the efficiency improvement (up to 50% of the total loan amount)
 - Other eligible projects include:
 - Cord wood and pellet stoves
 - ENERGY STAR appliances
 - Refinancing existing Efficiency Vermont residential loans at lower interest rates (if applicable)

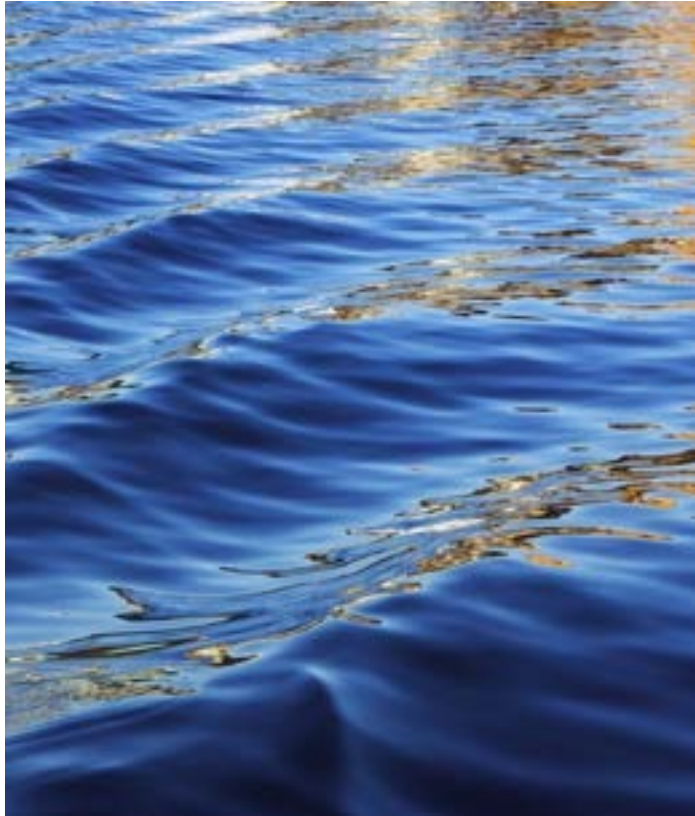
<https://www.encyvermont.com/services/financing/homes/home-energy-loan>

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Department of Public Service

Small Scale Renewable Energy Incentive Program
Advanced Wood Heating Systems



VT Small Scale Renewable Energy Incentive Program

- Incentives available for advanced wood heating systems using wood pellets up to 100 Kw
- Need to use pre-approved Wood Heating Co
- Residential income-eligible adder:
- Low-income= $<80\%$ AMI/Moderate-income= 80% AMI to $<120\%$ AMI
- Base incentives of \$3,000
- Adders-
 - \$8,000 for low-income
 - \$6,000 for moderate income

<https://www.erc-vt.org/Media/Default/docs/ssr-eip-wood-2023-advanced-wood-heating-terms-conditions-and-requirements.pdf>



Mileage Smart
Replace Your Ride



- Mileage Smart
- <https://www.mileagesmartvt.org/>
- 25% of initial price, up to \$5,000 toward a used Hybrid or Electric Vehicle
- Must be a Vermont Resident
- Must not be claimed as a dependent
- Must be 18 years of age or older
- Must be at or below 80% State Median Income (based on AGI).

- Replace Your Ride
- <https://vtrans.vermont.gov/planning/projects-programs/vehicle-incentives>

\$3,000 in incentives will be available to applicants meeting income eligibility requirements who retire a high-polluting vehicle that is at least 10 years old towards the purchase of either a used or new PEV; a bike, electric bike, or fully electric motorcycle; and/or shared mobility services which reduce the need for vehicle ownership.

Incentive must be stacked with VT new PEV incentives or with MileageSmart Incentives for purchase of used hybrid or PEV vehicles



Vermont Department of Transportation



- Vermont Department of Transportation Incentive for new PEVs

- <https://vtrans.vermont.gov/planning/projects-programs/vehicle-incentives>

- Incentives are available for income-qualified individuals to purchase new PEVs (plug in electric vehicles) on a first-come, first-served basis, with greater incentives available for those with lower incomes and for those who purchase all-electric vehicles (AEVs)
- limited to AEVs with a base MSRP of \$45,000 or less or PHEV's with a base MSRP of \$40,000 or less.
- eligible customers may receive the incentive directly from a participating car dealer in the form of a reduced purchase or lease price, or they may receive a direct cash reimbursement from the state's incentive administrator, Center for Sustainable Energy.

Electric Bike Incentives

<https://vtrans.vermont.gov/planning/projects-programs/vehicle-incentives>

Vermont residents aged 16 or older are eligible on a first-come, first-served basis for up to \$400 towards the purchase of an electric bicycle, with higher incentives for households and individuals with lower incomes.



Utility Rebates and On-bill Financing



- Electric Utility Companies

- Have a variety of rebates available for clean energy thermal and transportation solutions
- Information about rebates is available on websites.
- The incentives are available to residents served by that utility's service area.
- Discounts for low-income families

- Vermont Gas Services (VGS)

- <https://vgsvt.com/savings/>

- Offers rebates on hot water heat pumps
- On-bill financing
- Weatherization for income eligible Vermonters
- Discounts for low-income families




Community Action Agencies

No-cost Energy Audits and Weatherization for Low-income Vermonters

Financial and Green Energy Coaching through Green Saving Smart



- Vermont's Weatherization Programs
- <https://dcf.vermont.gov/benefits/weatherization>
- Champlain Valley Weatherization Services
- Capstone Weatherization
- BROC Weatherization
- SEVCA Weatherization
- NETO Weatherization
- No-cost weatherization for income eligible Vermonters
- Green Saving Smart Financial and Green Energy Coaching
- <https://www.greensavingsmart.org/>
- Provides budgeting, savings, and credit advice with the goal of reducing energy use and transitioning to clean energy
- Offers educational webinars about weatherization, heat pumps, green transportation, solar energy, and financial literacy



Low and No-interest Loans for Energy Efficiency

Offered through Vermont Banks and Credit Unions,
Efficiency Vermont, and Utility On-bill Financing





Barriers

Economic
Language and Cultural
Renters



Economic Barriers for Low-Income Households

Unable to pay for upfront costs

Credit Access and Aversion to Debt

- Study by the Island Institute in Maine
- Bridging the Rural Efficiency Gap: Expanding access to energy efficiency upgrades in remote and high energy cost communities
- 2018 Report of Four States (Vermont, New Hampshire, Maine, and Alaska)
- VEIC was one of the funders.
- Authored by Brooks Winner, Suzanne MacDonald, Lisa Smith, and Juliette Juillerat
- <https://www.islandinstitute.org/wp-content/uploads/2021/03/Bridging-the-Rural-Efficiency-Gap-final-report.pdf>

Language and Cultural Barriers for Newcomers

Information and guidance not available in language of choice

- Solutions:
- Easily accessible translations of educational materials
- Interpreters available for meetings and phone conversations
- Financial Empowerment for New Americans Program at CVOEO with 9 Community Ambassadors speaking 7 different languages.

Unfamiliarity with credit

- Solutions:
- Online and in-person classes on using and accessing credit
- Familiarity with banks and credit unions that offer services tailored to customers who are new to the US

Barriers for Renters

Lack of control over thermal energy sources

- Often renters pay for heating and cooling expenses so landlord is not incentivized to cut energy costs
- Renters can fear losing rental space if apartment upgraded or if they are seen as demanding
- Landlords unaware of incentives

Inability to access charging for EVs

- Lack of sufficient charging stations at multi-family buildings or at public spaces



Thank You!

For follow-up questions,
please contact:

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