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Vermont Climate Action Plan – Buildings and Thermal

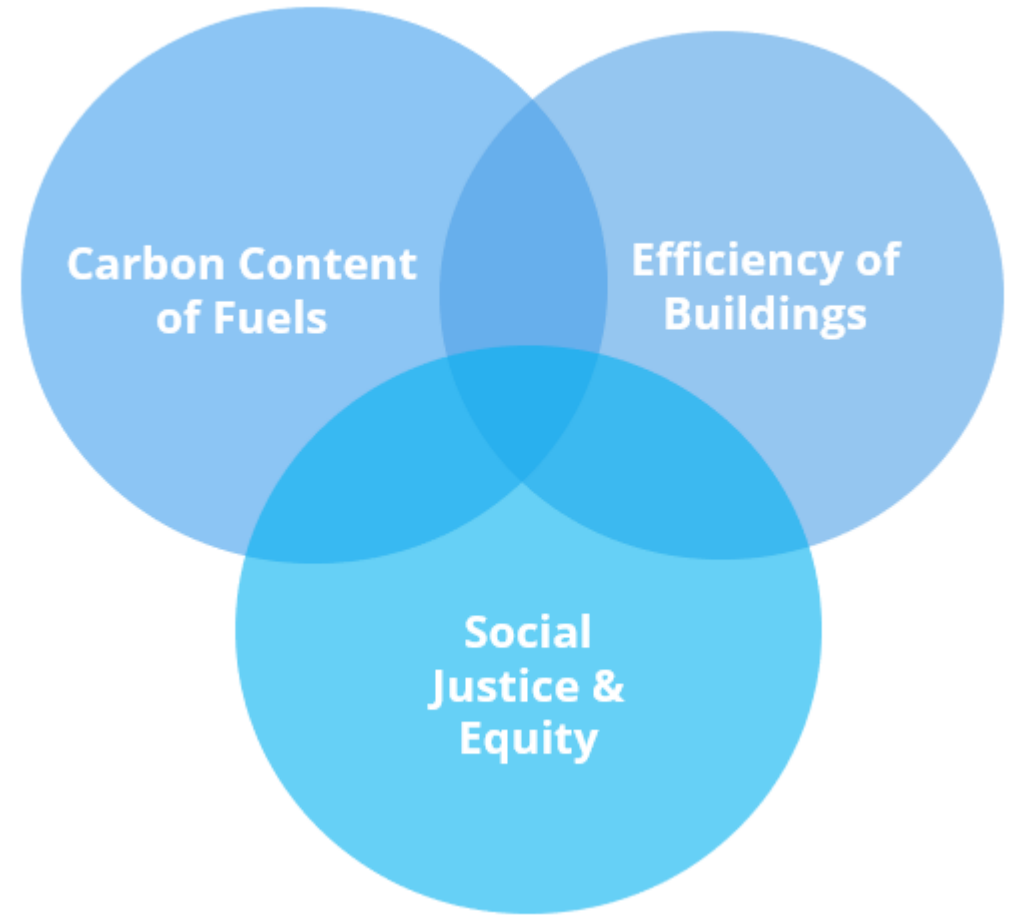
Presentation to the Vermont Legislature
House Committee on Energy and Technology

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Climate Action Plan Recommendations



Climate Action Plan Building Pathways



Pathway 1 –

Equitably reduce building-related carbon emissions by **improving** building energy **efficiency**

Pathway 2 –

Equitably reduce building-related carbon emissions by **reducing** the **carbon content** of the **fuel** that buildings use

PATHWAY 1:

Improve building energy efficiency



Strategies:

1. Develop and implement a multi-year statewide “**Weatherization-at-Scale**” initiative
2. Institute a new **rental property efficiency standard (RPES)**
3. Improve the **energy performance** of all **new buildings** in Vermont

Efficiency Strategy 1

Weatherization-at-Scale



Brighter colors (red, orange, and yellow) indicate warmer temperatures (more heat and infrared radiation emitted)

Efficiency Strategy 2

Rental Property Efficiency Standard

Actions:

1. Authorize the adoption of efficiency standards for existing rental properties.



Efficiency Strategy 3

Increase the Energy Efficiency of all New Buildings



Actions:

1. Regularly update statewide residential and commercial building and energy codes resulting in a net-zero requirement by 2030 (Public Service Department)
2. Develop and fund a state-level Energy Code *Circuit Rider* initiative that provides code training and enforcement assistance to municipalities throughout Vermont (Public Service Department)

PATHWAY 2: CLEAN FUELS

Reduce building-related carbon emissions by reducing the carbon content of the fuel they use

Strategies:

1. Implement a Clean Heat Standard
2. Adopt appliance standards for water heaters based on their ability to be "located" on the grid and "controlled"



Clean Fuels Strategy 1:

Clean Heat Standard

Action:

1. Adopt legislation authorizing the PUC to administer a Clean Heat Standard



CLEAN FUELS STRATEGY 2:

An Appliance Standard for Controllable Water Heaters

Action:

1. Authorize the Department of Public Service to engage with neighboring states and stakeholders to adopt appliance standards for Vermont and the region that require electric storage water heaters for sale in Vermont to have a modular demand response communications port that complies with the ANSI/CTA-2045-A or an equivalent communication interface standard

Summary of CAP Recommendations

- Engage in Weatherization-at-Scale
- Adopt a Rental Property Efficiency Standard
- Improve the Energy Performance of New Buildings
- Adopt a Clean Heat Standard
- Adopt a Controllable Water Heater Appliance Standard



Thank You