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Weatherization at Scale in Vermont

UPDATE TO SENATE NATURAL RESOURCES AND ENERGY COMMITTEE

Richard Faesy

1/7/2022

Agenda

- Introduction
 - Richard Faesy, Energy Futures Group
- Comprehensive Energy Plan
- Climate Action Plan
- Weatherization Programs Progress to Date
- Recommendations



Richard Faesy Bio

- Energy Futures Group
 - Co-Principal
 - Founded in 2010
- Vermont Energy Investment Corporation (VEIC)
 - Managed Energy Efficiency Consulting Division
 - 21 years
- Building Performance Professionals Association
 - Board Secretary
- Vermont Involvement
 - Energy Action Network; Public Service Department energy codes, building energy labeling, and finance report contractor; Chair Finance & Funding Committee of Thermal Energy Task Force, etc.

Energy Futures Group

Vermont-based clean energy consulting firm established in 2010

Areas of Expertise

- Energy efficiency & renewable energy
- Program design
- Integrated resource planning
- Policy development
- Expert witness testimony
- Building codes
- Evaluation
- Cost-effectiveness

Range of Clients

- Government Agencies
- Advocates
- Regulators
- Utilities



Clients in 45 states and provinces plus regional, national and international organizations.



Comprehensive Energy Plan & Climate Action Plan

Comprehensive Energy Plan

- **Pathway – Reduce Thermal Energy Demand**
 - **Weatherization –At-Scale**
 - Weatherizing 120,000 households by 2030
 - Ramp up the workforce
 - Facilitating the weatherization process for customers including energy counseling services
 - Significant public and private investments will be necessary
 - Devoting significant federal monies to kick start the pace of weatherization, while building workforce
 - Exploring opportunities for sustainable funding including developing partnerships where weatherization leads to positive outcomes:
 - Health care
 - Property insurance
 - **Encourage Efficient New Buildings**
 - Achieve net-zero ready construction for all newly constructed buildings by 2030 through building energy standards
 - Avoid having to weatherize new construction later in life...



2022 Comprehensive Energy Plan
DRAFT FOR PUBLIC COMMENT
November 19, 2021

Public comment opportunities are listed at
publicservice.vermont.gov/content/2022-plan

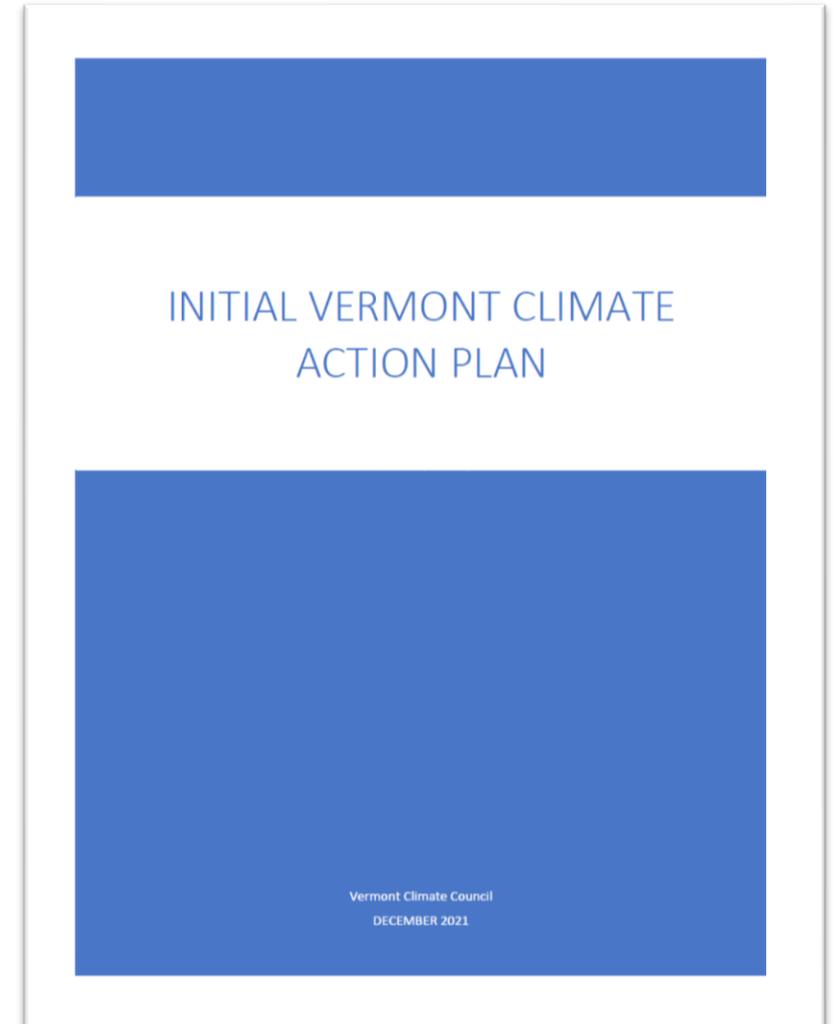
Vermont Department of Public Service
112 State Street
Montpelier, Vermont 05620-2601
(802) 828-2811
TTY/TTD (VT): 1-800-734-8390
<http://publicservice.vermont.gov>

Addison County New Construction – A Lost Opportunity

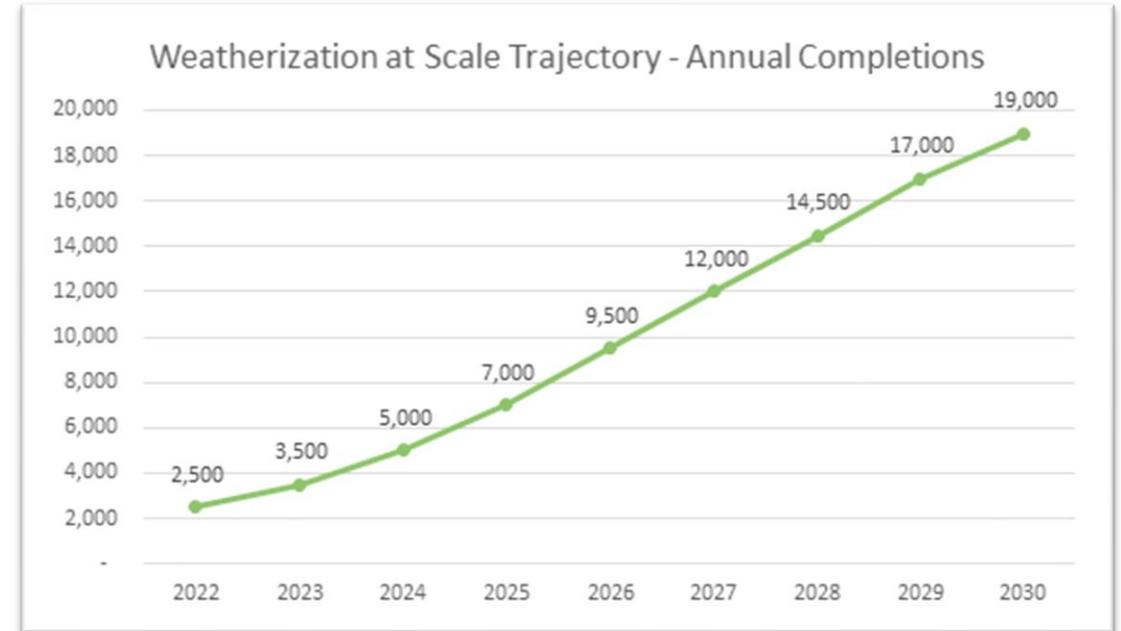
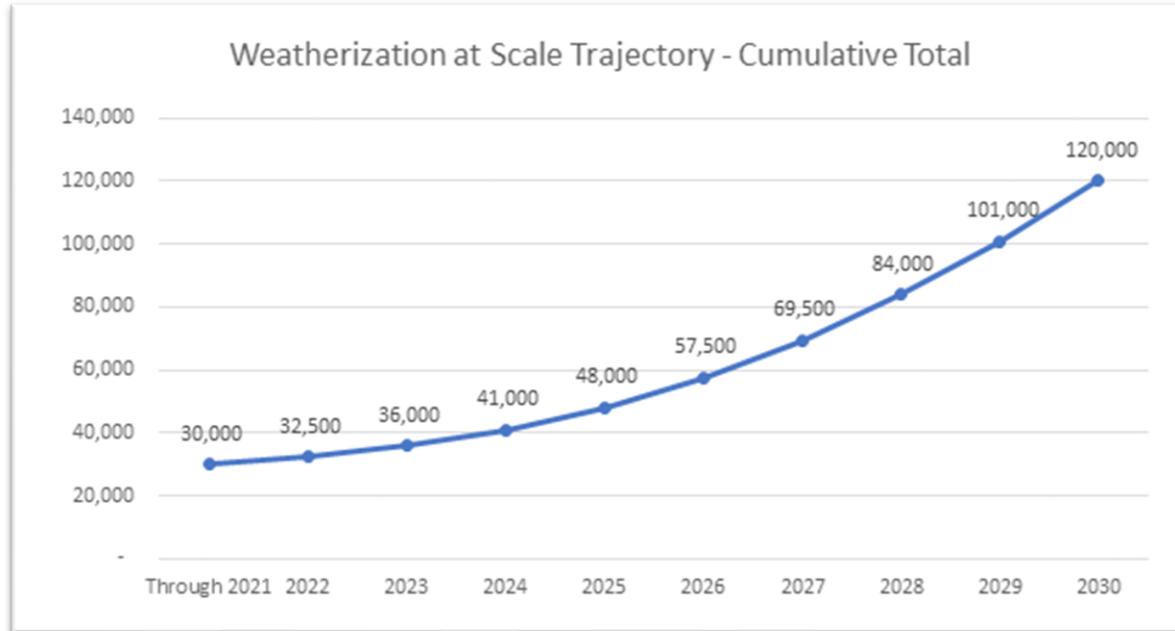


Vermont Climate Council's Climate Action Plan

- ***Strategy 1 - Develop and implement a multi-year statewide Weatherization at Scale initiative***
 - At least 90,000 additional homes need to be weatherized by 2030
 - Coordinated Workforce Development
 - Enhanced Energy Coaching and Navigation Services
 - Tariff On-Bill Financing (TOBF)
 - Allocate the funding needed to achieve the goal



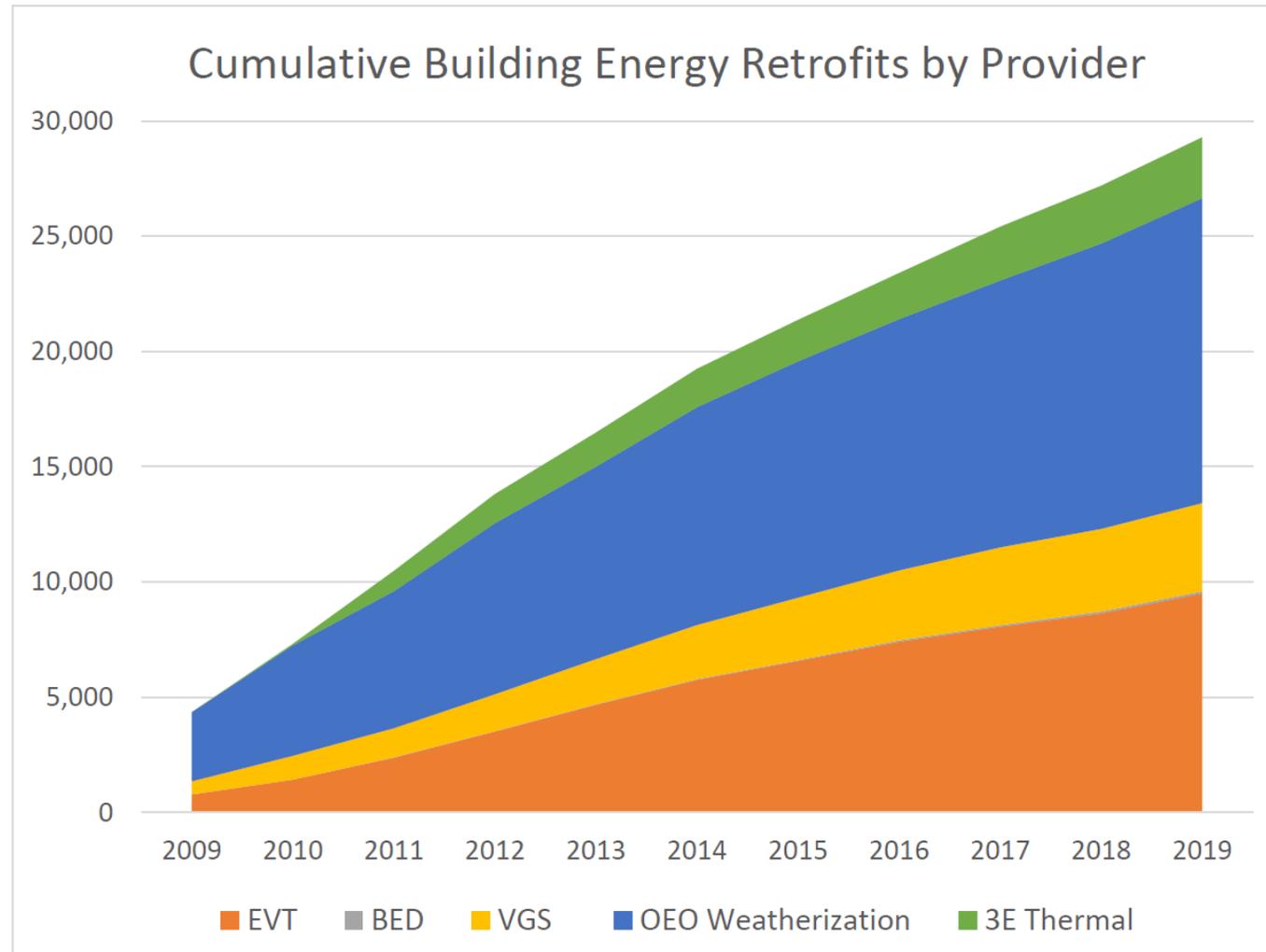
Weatherization At Scale Trajectories





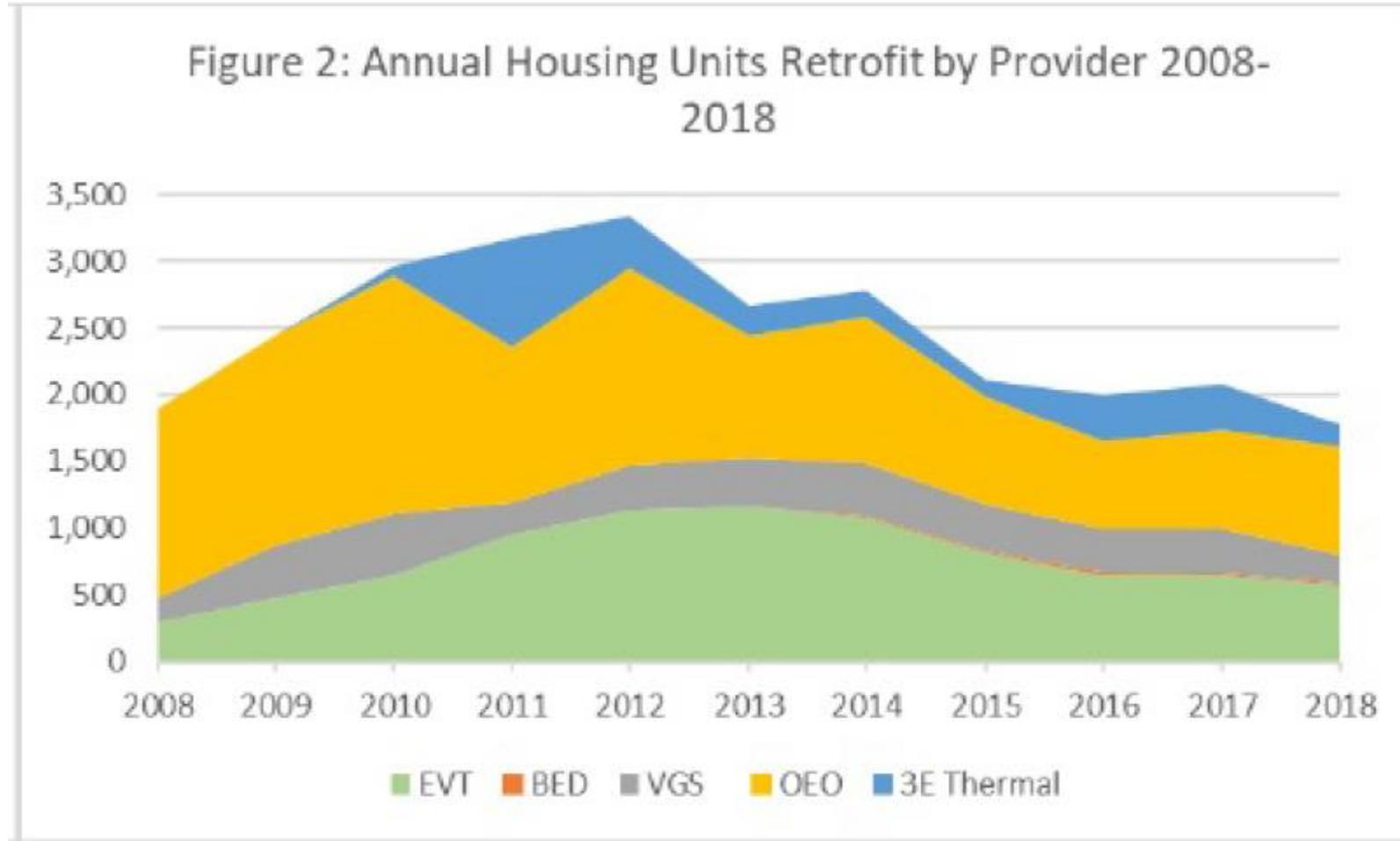
Weatherization Program Results

Cumulative Building Energy Retrofits by Provider



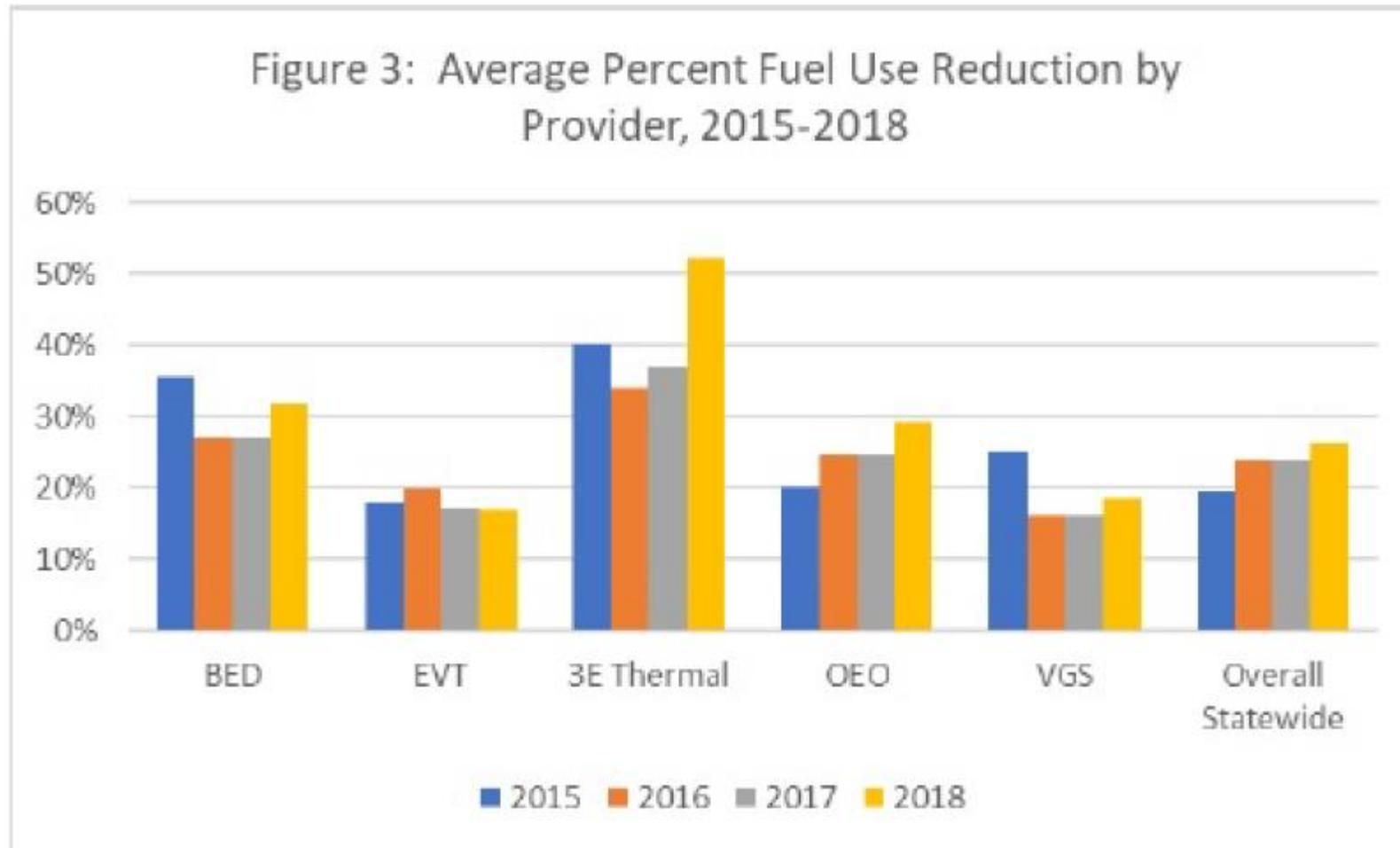
Vermont Public Utility
Commission Case #EEU
2013-03, 2019 Annual
Report on Vermont's
Progress
Toward Building Energy
Fitness Goals

Annual Housing Units Retrofit by Provider



Act 62 (2020) –
Preliminary
Report on All-
Fuels Energy
Efficiency

Energy Savings by Provider



Act 62 (2020) –
Preliminary
Report on All-
Fuels Energy
Efficiency

Maximize Weatherization Funding (from 10/22/2021 memo)

- Fund through 2026 as a ramp to a long-term sustainable funding strategy
- Establish additional funding sources to provide market certainty and meet weatherization trajectories
- Support >\$72 million of State and/or Federal funds between FY23–FY26 for a steady ramp up of weatherization work calibrated to workforce levels
- Support weatherization carve-outs in a Clean Heat Standard, expansion of on-bill payback, and a long-term sustainable funding strategy to close the funding gap and build momentum toward weatherization of 120,000 homes as indicated in the Climate Action Plan



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