

#### **Weatherization Barriers Toolkit**

### How to Address Health and Safety Barriers with an Income-Eligible Focus

June 6, 2022 20-30 Minute Presentation

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#### Introduction

This "Weatherization Barriers Toolkit" provides:

- An overview of the challenges that health and safety barriers create by preventing home weatherization
- Guidance on overcoming barriers
- A case study of a successful program in Connecticut
- Lessons learned to help others develop and implement weatherization barrier remediation programs
- Links to resources

We hope this Toolkit will help others tackle the weatherization barrier challenge and enable the weatherization of more homes.



#### Terminology

- Health and Safety Conditions: Issues such as asbestos, unsafe electrical wiring, mold, backdrafting appliances, etc. that are potential health hazards for occupants
- Income-Eligible: Customers that qualify for DOE's Weatherization Assistance Program (WAP) or utility income-restricted programs
- Weatherization: Improving the energy performance of buildings (for any income level)
- Pre-weatherization Repairs: Remediation that allows weatherization measures to be installed
- Weatherization Barriers (or "Deferrals"): Health and safety conditions that prevent participation in weatherization programs



#### Toolkit Scope & Focus

- Barriers to weatherization exist in all markets (regardless of income) and impact all housing types
  - In Connecticut, 9% of market rate homes had health and safety barriers preventing weatherization
  - Lower income households have even higher rates of barriers
- This Toolkit focuses on solutions for income-eligible customers
  - Energy burdens are higher for income-eligible households
  - Providing weatherization services is a priority for this population
  - Income-eligible residents have a harder time affording and accessing capital to remediate barrier issues



### THE INCOME-ELIGIBLE WEATHERIZATION BARRIER PROBLEM



## We need systems to deliver health and safety repairs so clients can access weatherization

- Nationally, 10-30% of potential income-eligible weatherization clients are deferred due to health and safety issues
- More recent data shows client deferrals are still an issue

| State       | Income-Eligible Weatherization Deferral Rate |  |
|-------------|--|--|
| Connecticut | 21% - 23% (2019, 2014-2018)                  |  |
| Vermont     | 10% (2020)                                   |  |
| Virginia    | 18% (2018-19)                                |  |
| Washington  | 30-40%, higher in rural areas (2018)         |  |

Often no funding or process exists to address barrier issues

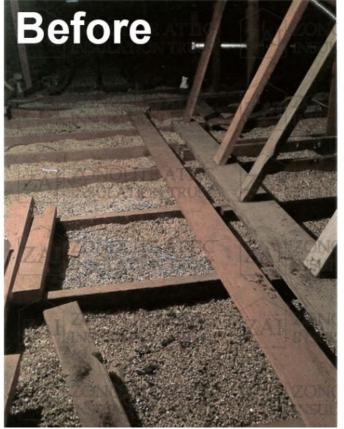


# Barriers Roof Repairs or Replacement

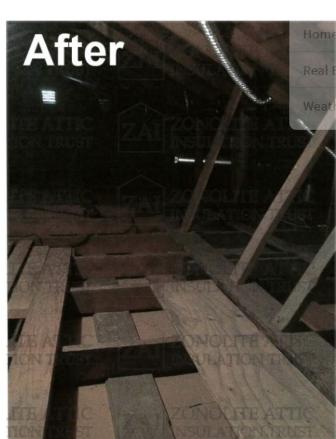
https://www.spanglerroofing.net/services/repair-replacement



### Vermiculite (Asbestos) Attic Insulation



https://www.zonoliteatticinsulation.com/S/Photos



#### **Barriers**

### Knob and Tube Wiring



Close-up of typical ceramic "knob" circa 1925. Expanded HEAT Loan Initiative Report, December 2015, E4TheFuture.



#### Asbestos



Boiler wrapped in asbestos insulation Picture from *Expanded HEAT Loan Initiative Report*, December 2015, E4TheFuture.

### Combustion Venting, Gas Leaks



https://www.startribune.com/water-heater-backdrafting-how-to-test-for-proper-draft/571757672

#### **Barriers**

#### Mold or Moisture



https://blackmoldcontrol.com/basement

#### **Structural Concerns**

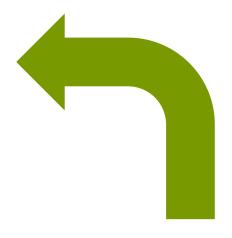


http://ctcoastalconstruction.com/services/sillrepair



An Effective
Weatherization
Barrier Remediation
Program

Weatherization Completed





Do barriers exist?

Incomeeligible home needs weatherization Ba Ro Pi

No barriers

Weatherization
Barrier
Remediation
Program



Remediation contractor resolves barrier(s)



Funding, protocols, contractors, quality control



#### Key Elements of an Effective Program

Coordinates with weatherization program & contractors

Funds repairs for common issues

Establishes average job costs, but offers some flexibility

Transparent process

Sustainable funding



#### **FUNDING SOURCES**



#### Potential Barrier Remediation Funding

#### Federal

- LIHEAP
- WAP potential new funds
- ARPA
- Infrastructure (IIJA)?

#### State, Utility, Other

- State appropriation
- State fee on all fuels
- Philanthropic funds
- Regional energy funding (e.g., RGGI)
- Utility programs



#### Many states access LIHEAP for deferral programs

Low-Income Home Energy Assistance Program (LIHEAP) helps keep families safe and healthy through initiatives that assist families with energy costs. It provides federally funded assistance in managing costs associated with:

- Home energy bills
- Energy crises
- Weatherization and energy-related minor home repairs



### LIHEAP Can Support Weatherization Work and Energy Related Home Repairs

- LIHEAP grantees may allocate up to 15% of total LIHEAP funds to weatherization including addressing barriers
  - Grantee may increase allocation up to 25% via waiver by US Health and Human Services (HHS) if certain requirements are met
- LIHEAP Grantees must submit annual LIHEAP Plan that describe[s]... any steps the State will take to address the weatherization and energy-related home repair needs of households that have high home energy burdens (42 USC § 8624(c)(1)(D))



#### Many Northeastern States Use LIHEAP for Deferral Repairs\*

| State         | Eligible Repairs   | Funding Total and Source   |
|---------------|--|--|
| Connecticut   | Asbestos, vermiculite, moisture & mold, knob/tube, pests, others | \$6.650 MM ARPA, \$5.550 MM LIHEAP,<br>\$150K State SEP                            |
| Massachusetts | Asbestos abatement and other measures                            | LIHEAP/FCM/RGGI/Utility  |
| New Hampshire | Roof repairs, require waiver                                     | LIHEAP   |
| New Jersey    | Structural repairs, roofs, mold, etc.                            | LIHEAP   |
| New York      | Roof repair  | LIHEAP   |
| Rhode Island  | Knob and Tube Oil tank replacement                               | \$2MM – ARPA LIHEAP<br>\$1M – LIHEAP Crisis Assistance                             |
| Pennsylvania  | Deferral issues Clean & tune, preventative maintenance           | \$2MM – ARPA LIHEAP & past LIHEAP<br>\$21MM – ARPA LIHEAP                          |
| Vermont       | Roof repairs, Vermiculite, knob and tube and other obstacles     | LIHEAP, ARPA, state, transmission utility dividend funds, private foundation funds |



<sup>\*</sup> Examples, not based on comprehensive survey

#### Other Federal Funding

- DOE Weatherization Assistance Program (WAP)
  - Some deferral issues can be covered
  - Many are not allowable health and safety repairs (<u>WAP Notice 22-7</u>)
  - 2022 Weatherization Readiness Funds (WRFs) of \$15MM for structural or health and safety work that prevent weatherization. WRF's are tied to each state's formula allocation. See WAP Notice 22-6 <a href="here">here</a>
- USDA
  - Housing Rehab Funds (504 program)
    - Grants and loans
- American Rescue Plan Act (ARPA)
- Infrastructure Investment and Jobs Act (IIJA)
  - Under consideration by Congress in 2022



#### Regional and Utility Funding

#### Regional

- States have discretion to use proceeds from regional energy funds they choose, without specific restrictions
- Massachusetts accesses Forward Capacity Market (FCM) and Regional Greenhouse Gas Initiative (RGGI) funds

#### Utility

Massachusetts uses Mass Save ratepayer energy efficiency funds to remediate weatherization barriers: 1) income-eligible households,
2) up to \$7000 in moderate-income households, and 3) 0% HEAT loan for selected barriers in market-rate households



#### State & Philanthropic Funds

- State Appropriations
  - Oregon Legislative Appropriation
    - Healthy Homes repair fund, via <u>Healthy Homes Act, HB 2842</u>
- State energy fees
  - Vermont State Energy Fee funds portion of WAP w/ statewide charge on all fuels sold; flexibility to spend funds on health & safety issues without DOE rule mandates
- Philanthropic Funding
  - Vermont: Grants from electric transmission system (VLITE) and Vermont Community Foundation



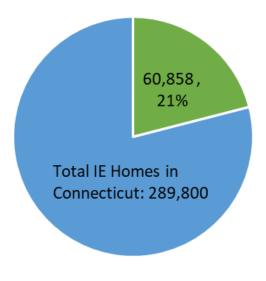
## CASE STUDY: CONNECTICUT WEATHERIZATION BARRIERS REMEDIATION PROGRAM



#### CT Program Sought to Address High Deferral Rates

- 289,800 homes income-eligible throughout CT
  - 21% of income eligible were deferred in 2019
  - 60,000+ IE- barriered homes statewide likely need remediation
  - CT utilities have a list of 20,000 IE deferred customers
- Most common deferrals (2014-2019)
  - 39% asbestos-like materials
  - 14% mold
  - 14% failed combustion safety testing

Barriered Income-Eligible Homes in CT





#### Key Stakeholders Drove Process

- Connecticut Department of Energy & Environmental Protection (DEEP), Bureau of Energy and Technology Policy
  - Recognized need for funds to address deferrals, allocated staff resources
  - Elevated issue, kept conversation going
- Energy Efficiency Board (EEB)
  - Recognized issue and convened workshops/meetings
- Utilities
  - Gathered and shared data, supported new program design
- Advocates: Environmental, energy, and social justice stakeholders
  - Highlighted the problem and pushed for equitable solutions
- Other Important Allies: Governor and program contractors
  - Supported solutions



#### CT Process

**Phase 1: Build the Case** 

**Phase 2: Public Discussion** 

Phase 3: Secure Funding + Rollout Program

**Utility administrators** gather data on deferrals, share with DEEP & EEB.

Advocates raise equity and access issues with DEEP and EEB. Engage stakeholders and push for public workshops.

**DEEP & EEB** sponsor public workshops to share data, define needs, explore solutions including models from other states.

**DEEP** identifies potential funding sources.

Advocates & DEEP engage LIHEAP Board.

Governor and Legislature aligned to allocated ARPA and LIHEAP funds.

**LIHEAP Board** supports use of funds for deferrals.

**DEEP** issues program operator RFP.



#### Summary of Connecticut Program

- January 1, 2022 December 31, 2024
- Program will be funded by LIHEAP and ARPA funds with supplemental US DOE State Energy Program (SEP)
  - Up to \$5,500,000 over FY22-24 (Oct. 1, 2022 Sept. 30, 2024) from LIHEAP
  - Up to \$6,650,000 in supplemental funding from 2021 American Rescue Plan Act (ARPA) to support Health and Safety Barriers to Housing Remediation over 2022-2024 (Jan. 1, 2022 – Dec. 31, 2024)
  - Up to \$150,000 supplemental from U.S. Department of Energy's SEP through FY22 (January 2021 - June 30, 2022)
- See Resources for detail



#### Key Lessons Learned from CT (1)

- Collect and organize data on deferrals
- Make the case using the data
  - Use data to show key decision makers who is missing out on program participation
- Engage stakeholders
  - Provide forums to share data, solicit information from contractors and programs, hear from advocates
- Enlist the support of key decisionmakers
  - Educate and engage people in power

#### Key Lessons Learned from CT (2)

- Find support and allies within state government and utilities
- Understand and support the interests of key agencies, utilities and their staff
  - Equity an important driver for state agencies
- Coordinate closely with the program administrators
- It takes time
- Reframe what is possible, even if a new approach
  - Highlight: addressing deferrals will reduce demand for LIHEAP over time as households lower their energy usage, freeing up funds for more clients



#### **RESOURCES**



#### Connecticut Program Development Resources

- Slides from CT DEEP workshops
  - Workshop 1 on 11/18/20
  - Workshop 2 on 1/20/21
- Slides from LIHEAP Board presentation from DEEP
- RFP for Statewide Weatherization Barrier Remediation Program Operator
- Eversource "Home Energy Solutions Market Rate/Income Eligible presentation." November 2020.
- Access additional resources from E4 website here



#### **Credits**

- <u>E4TheFuture</u> funded research and development of the toolkit
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