LOW INCOME WEATHERIZATION PROGRAMS: Serving Those Most in Need

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DOE’s Weatherization Assistance Program is the foundation of all weatherization programs.

**DOE Plays a Critical Role in Establishing the Framework for High Quality Weatherization**

  - Transparent process managed by NREL and open to any interested party.
  - Updated on a 5-year cycle to reflect the latest technologies and techniques.
Typical Weatherization Measures Installed

**MECHANICAL MEASURES**
- Clean, tune, repair, or replace heating and/or cooling systems.
- Install duct and heating pipe insulation.
- Install programmable thermostats and other HVAC controls.
- Repair/replace water heaters.
- Install water heater tank insulation.
- Insulate water heating pipes.
- Install solar water heating systems.
- Install waste heat recovery devices.

**HEALTH & SAFETY MEASURES**
- Install smoke and carbon monoxide alarms.
- Repair/replace vent systems to ensure combustion gas draft safely outside.
- Install mechanical ventilation to ensure adequate indoor air quality.
- Perform incidental safety repairs when needed.

**BUILDING SHELL MEASURES**
- Insulation for walls, floors, ceiling, attic, foundation.
- Blower Door Testing.
- Repair/replace primary windows/doors.
- Install storm windows/doors.
- Install window film/solar screens/window louvers and awnings.
- Repair minor roof and wall leaks prior to attic or wall insulation.

**ELECTRIC BASELOAD MEASURES**
- Install motor controls.
- Install CFLs.
- Replace refrigerators with energy-efficient refrigerators.
DOE’s Weatherization Assistance Program

- Works with the industry to establish training standards and certifications.

- Home Energy Professional certifications through the Building Performance Institute (BPI).
DOE’s Weatherization Assistance Program

- Supports accreditation of training providers.
  - Curriculums built around the JTAs.
  - Administered by the Interstate Renewable Energy Council (IREC)

- Continuous Improvement.
  - American Customer Satisfaction Index (ACSI).
    - State Grantees
    - Local Subgrantees
Leveraged Programs

• What are leveraged funds?
  • Low Income Home Energy Assistance Program $423 million in PY 2017 – 45% of all funds.
  • Utility and State program funds -- $255 million in PY 2017 – 28% of all funds.
• Combined or ‘braided’ with DOE WAP funds.
• Allows for comprehensive services to clients.
• Over 120,000 homes service nationwide annually.
Ohio’s Approach to Serving Clients

- Single application for WAP/LIHEAP/Utility.
- Follow WAP technical rules.
- Utility funds administered separately by the nonprofit provider network.
- Evaluations show that the synergies resulting from combining funds results in higher energy savings.
  - 30% average reduction in heating costs.
  - 10-12% reduction in electricity costs.
Ohio Pivots to Deeper Measures

• New lighting and refrigerator standards eliminating low hanging fruit.
• New focus on all electric single-family.
  ◦ Heat Pump HVAC Systems.
  ◦ Heat Pump Water Heaters
• New focus on multifamily properties.
  ◦ Underserved market.
  ◦ Challenges:
    • Multiyear projects.
    • Eligibility.
Community Weatherization

- Murray City and Nelsonville – Hocking/Athens/Perry CAC & Corporation for Ohio Appalachian Development (COAD)
- Portsmouth – CAC of Scioto County
- Coordinate programs to serve all income levels and building types.
- Multiyear projects. Leverage multiple sources of funds.
- Partnerships:
  - Columbia Gas of Ohio
  - American Electric Power
  - Chamber of Commerce (Nelsonville)
Energy-Plus-Health

- Weatherization has documented positive impacts on people suffering from:
  - Asthma;
  - Chronic Obstructive Pulmonary Disease (COPB);
  - Hypertension.

- Building a Program
  - Training and delivery infrastructure.
  - Partnership with local health care providers.
  - Motivated by payments tied to outcomes.
  - Develop funding, including insurance reimbursements.
WAP Reauthorization

• HR 2041 and S 983
• Modernize the program.
  ◦ Improves ability to braid funding.
  ◦ Treats renewables like any other Energy Conservation Measure (ECM).
  ◦ Encourages multifamily weatherization.
  ◦ Establishes innovation program to test new strategies.
• Increases funding authority.