



LOW INCOME WEATHERIZATION PROGRAMS: Serving Those Most in Need

Ohio Partners for Affordable Energy

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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

- Guidelines for Home Energy Professions including the Standard Work Specifications.
 - 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.

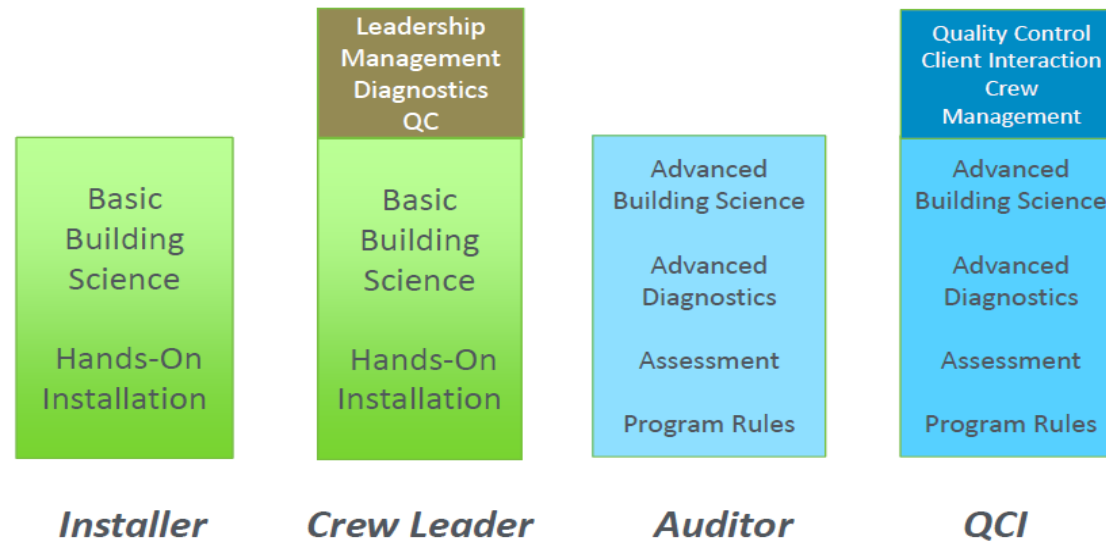


ELECTRIC BASELOAD MEASURES

- 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.

