Energy Efficiency and the WV Weatherization Assistance Program of Today

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Energy Efficiency in West Virginia: Projects & Prospects
Who Are We?
- State Agency under the WV Department of Commerce

What Do We Do?
- Administer federal grants to Sub-grantees throughout WV for programs that assist low-income individuals and families
Weatherization Assistance Program (WAP) was created in 1976 to assist low-income families who lacked resources to invest in energy efficiency. Funds are used to improve the energy efficiency of low-income homes using the most advanced technologies and testing protocols available in the housing industry.
WEATHERIZATION ASSISTANCE PROGRAM

Mission Statement

"To reduce energy costs for low-income families, particularly for the elderly, people with disabilities, and children, by improving the energy efficiency of their homes while ensuring their health and safety."
Weatherization Assistance Program

Quick Facts:

- Since the inception of the WAP, over 7 million homes have been weatherized with DOE funds.
- Energy savings average 35% of consumption for the typical low-income home.
- Occupants of weatherized homes experience in the range of $400 in annual savings on their energy bills, at current energy prices.
- For every $1 invested in the Program, Weatherization returns $2.51 to the household and society.
WEST VIRGINIA WEATHERIZATION ASSISTANCE PROGRAM

- CHANGE, Inc.
- Coalfield Community Action Partnership
- Community Action of South Eastern West Virginia
- Community Resources, Inc.
- Council of the Southern Mountains
- Eastern WV Community Action Agency, Inc.
- Mountain CAP of West Virginia, Inc.
- MountainHeart Community Services, Inc.
- Nicholas Community Action Partnership, Inc.
- North Central WV Community Action Association, Inc.
- PRIDE Community Services, Inc.
- Southwestern Community Action Council, Inc.
WEST VIRGINIA WEATHERIZATION ASSISTANCE PROGRAM

- **Eligibility:** Annual gross income from all income sources at 200% (or below) of the OMB Poverty guidelines for specific family size

- **Priority:** Elderly, persons with disabilities, families with children, households with high energy burden

- **Additional Factor:** Time on wait list

- **Future Factor:** High residential energy user
WEST VIRGINIA WEATHERIZATION ASSISTANCE PROGRAM: STRUCTURES
West Virginia Weatherization Assistance Program:
Energy Efficiency Measures

Weatherization Approach: “House as a system...”
West Virginia Weatherization Assistance Program: Energy Efficiency Measures

Weatherization measures broken down into a few main categories:

- Air Sealing
- Insulation
- HVAC
- Health and Safety
- Base-load Reduction
- Client Education
West Virginia Weatherization Assistance Program: Energy Efficiency Measures

- Weatherization Measure Determination: Energy Audit

- WV WAP Audit Tool: Weatherization Assistant
  - NEAT
  - MHEA
  - Savings-to-Investment Ratio (SIR)
WEST VIRGINIA WEATHERIZATION ASSISTANCE PROGRAM:
ENERGY AUDIT TOOLS

Diagnostic Tools:
- Blower Door
- Duct Leakage Diagnostic Tools
- Electricity Consumption Meter
- Combustion Analyzer
- Gas Leak Detector/“Gas Sniffer”
- Thermal Camera
West Virginia WAP - CURRENT PARTNERSHIPS - UTILITY PARTNERS

MonPower
PotomacElectric
Dollar Energy Fund
AEP Appalachian Power
American Electric Power Foundation
Dominion
Mountaineer Gas Company

West Virginia Office of Economic Opportunity
WEST VIRGINIA WAP - CURRENT PARTNERSHIPS – COMMUNITY AND TECHNICAL COLLEGES

New River Community and Technical College

Pierpont Community & Technical College

Northern Community College

CTCOS – Community and Technical College System of WV

West Virginia Office of Economic Opportunity
West Virginia WAP - Current Partnerships – National Partners
WEST VIRGINIA WAP - CURRENT PARTNERSHIPS – INDUSTRY PARTNERS
WEST VIRGINIA WEATHERIZATION ASSISTANCE PROGRAM:
NEW INITIATIVES

“Fee – For – Service”

- Expansion Opportunity
- Energy Audits
- Energy Efficiency Measures
- General Contracting Services
West Virginia Weatherization Assistance Program: New Initiatives

Healthy Homes / Weatherization Plus Health

- National effort to enable the comprehensive, strategic coordination of resources for energy, health, and safety in low-income homes
WEST VIRGINIA WEATHERIZATION ASSISTANCE PROGRAM:
NEW INITIATIVES

Healthy Homes / Weatherization Plus Health

Healthy Homes - 8 Principles:
- Keep It Contaminant-Free
- Keep It Pest Free
- Keep It Clean
- Keep It Dry
- Keep It Well-Ventilated
- Keep It Safe
- Keep It Well-Maintained
- Thermally Controlled (Energy Efficient)
West Virginia Weatherization Assistance Program: New Initiatives

Healthy Homes / Weatherization Plus Health

- Major Issues Addressed:
  - Lead-Based Paint Issues
  - Radon
  - Asbestos
  - Mold/Moisture Issues
  - Volatile organic compounds (emitted as gases from certain solids or liquids)
  - Pests
  - Ventilation Issues
  - Asthma Triggers
  - Structural Issues & Electrical Issues
West Virginia Weatherization Assistance Program: New Initiatives

Healthy Homes / Weatherization Plus Health

- Federal Partners:
  - U.S. Department of Energy
  - U.S. Environmental Protection Agency
  - CDC
  - U.S. Department of Housing and Urban Development
  - U.S. Department of Labor
  - USDA
  - West Virginia Office of Economic Opportunity

- National Partners:
  - Green & Healthy Homes Initiative
  - National Center for Healthy Housing
WEST VIRGINIA WEATHERIZATION ASSISTANCE PROGRAM: NEW INITIATIVES

Carbon Trading Initiative:

- Started as a project in Maine (Not cost effective)

- NASCSP creating National Carbon Trading Program

- Carbon Offsets sold on “Voluntary Market” in batches or “vintages” from many states together
WEST VIRGINIA WEATHERIZATION ASSISTANCE PROGRAM:
CARBON TRADING INITIATIVE

Weatherize a Home

Reduce Carbon Emissions

Measured by a Validated Methodology

Recorded in a Carbon Registry

Verified by an accredited third party verifier

Data sent to NASCSP entered in CDR

Offsets sold in the Voluntary Market

Buyers purchase Offsets

$$$

West Virginia Office of Economic Opportunity
West Virginia Weatherization Assistance Program: The Future

- Continue / expand current partnerships
- Seek additional opportunities, partners, and funding to enhance the current program
- Continue to expand Weatherization moving into the future
QUESTIONS?

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THANK YOU!