



ENERGY EFFICIENCY AND THE WV WEATHERIZATION ASSISTANCE PROGRAM OF TODAY

Presentation By: Russell W. Tarry

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**Energy Efficiency in West Virginia: Projects &
Prospects**

WV OFFICE OF ECONOMIC OPPORTUNITY



○ 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

- 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:

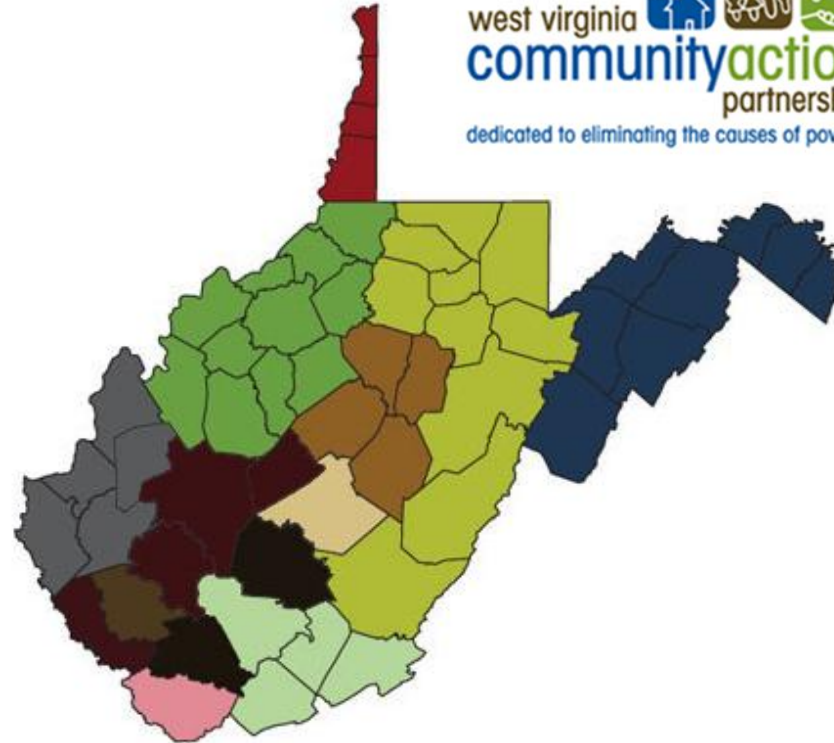


- Since the inception of the WAP, over 7 million homes have been weatherized with DOE funds
- Energy savings average 35% of consumption for the typical low-income home
- Occupants of weatherized homes experience in the range of \$400 in annual savings on their energy bills, at current energy prices
- 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

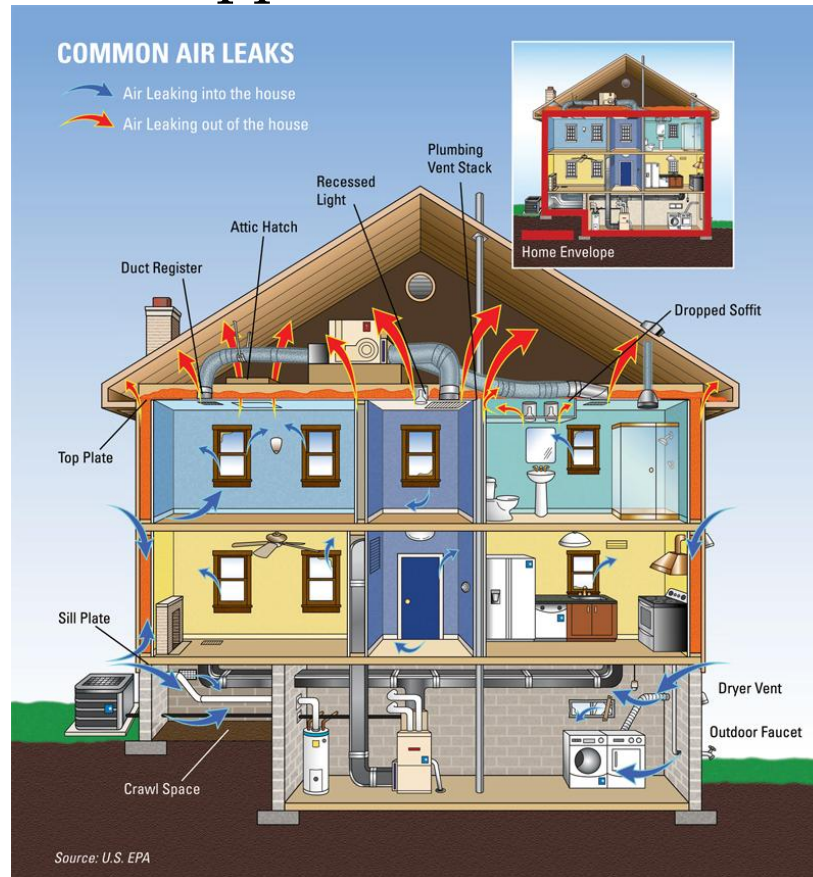


WEST VIRGINIA WEATHERIZATION ASSISTANCE PROGRAM: STRUCTURES



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)



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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 - FEDERAL



U.S. DEPARTMENT OF
ENERGY



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WEST VIRGINIA WAP - CURRENT PARTNERSHIPS - UTILITY PARTNERS



WEST VIRGINIA WAP - CURRENT PARTNERSHIPS – COMMUNITY AND TECHNICAL COLLEGES



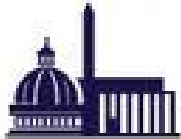
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WEST VIRGINIA WAP - CURRENT PARTNERSHIPS – NATIONAL PARTNERS



NATIONAL ASSOCIATION FOR STATE
COMMUNITY SERVICES PROGRAMS



NASCSP



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WEST VIRGINIA WAP - CURRENT PARTNERSHIPS – INDUSTRY PARTNERS



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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



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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:



○ National Partners:



National Center for
Healthy Housing



Green & Healthy Homes Initiative



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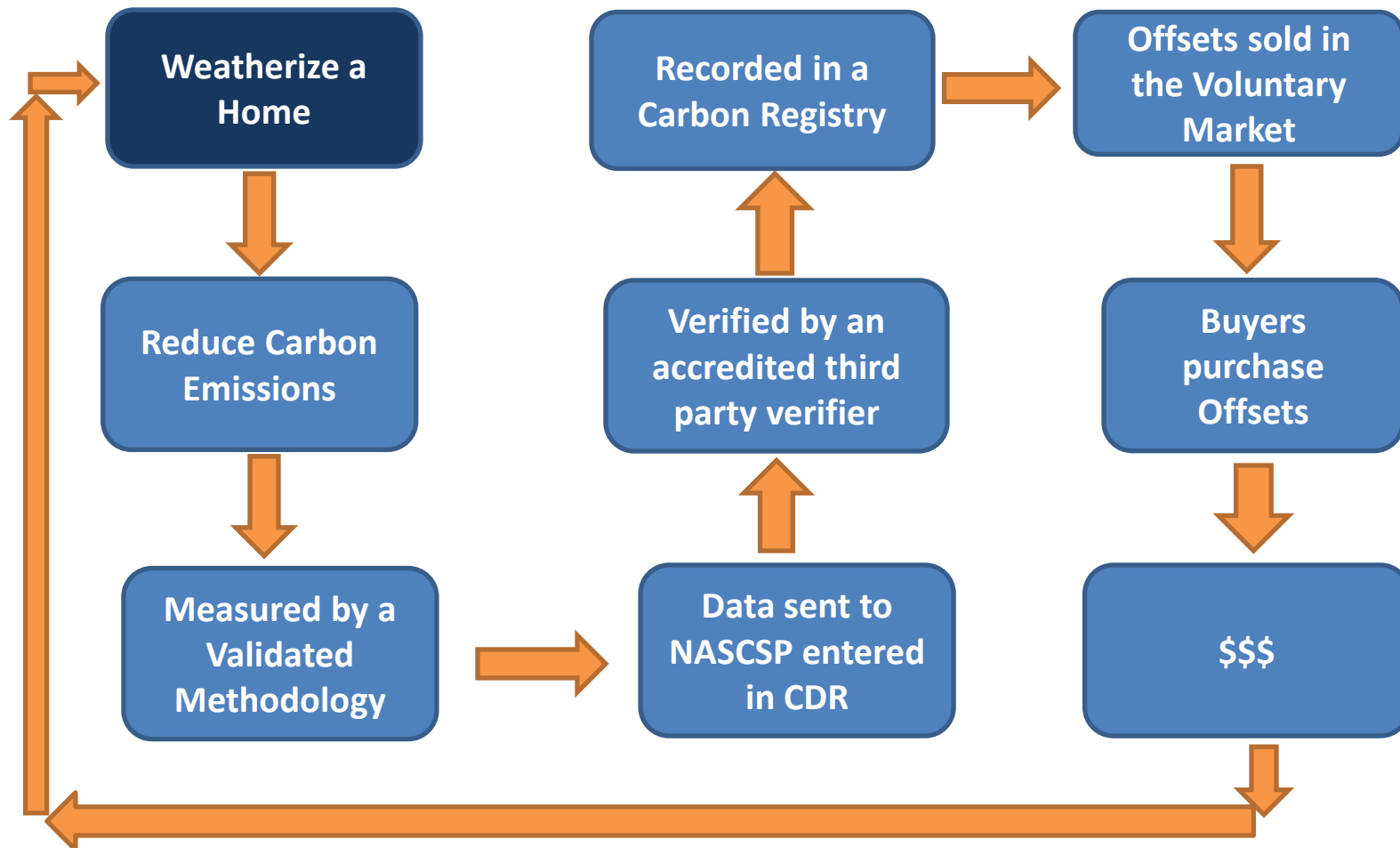
WEST VIRGINIA WEATHERIZATION ASSISTANCE PROGRAM: NEW INITIATIVES

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



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!



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