

2013 NASCSP Mid-Winter Training Conference and Orientation

Update from DOE's Weatherization & Intergovernmental Program (WIP)

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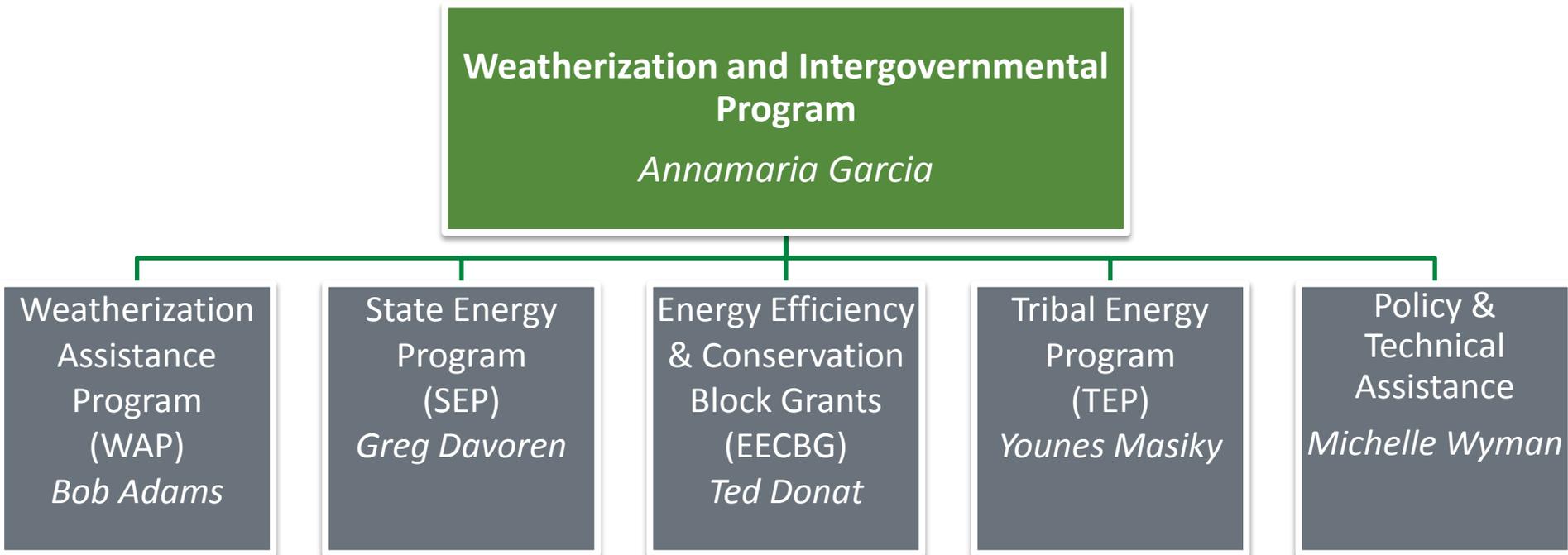
Weatherization and Intergovernmental Program

Office of Energy Efficiency and Renewable Energy

U.S. Department of Energy

February 27, 2013

WIP Structure

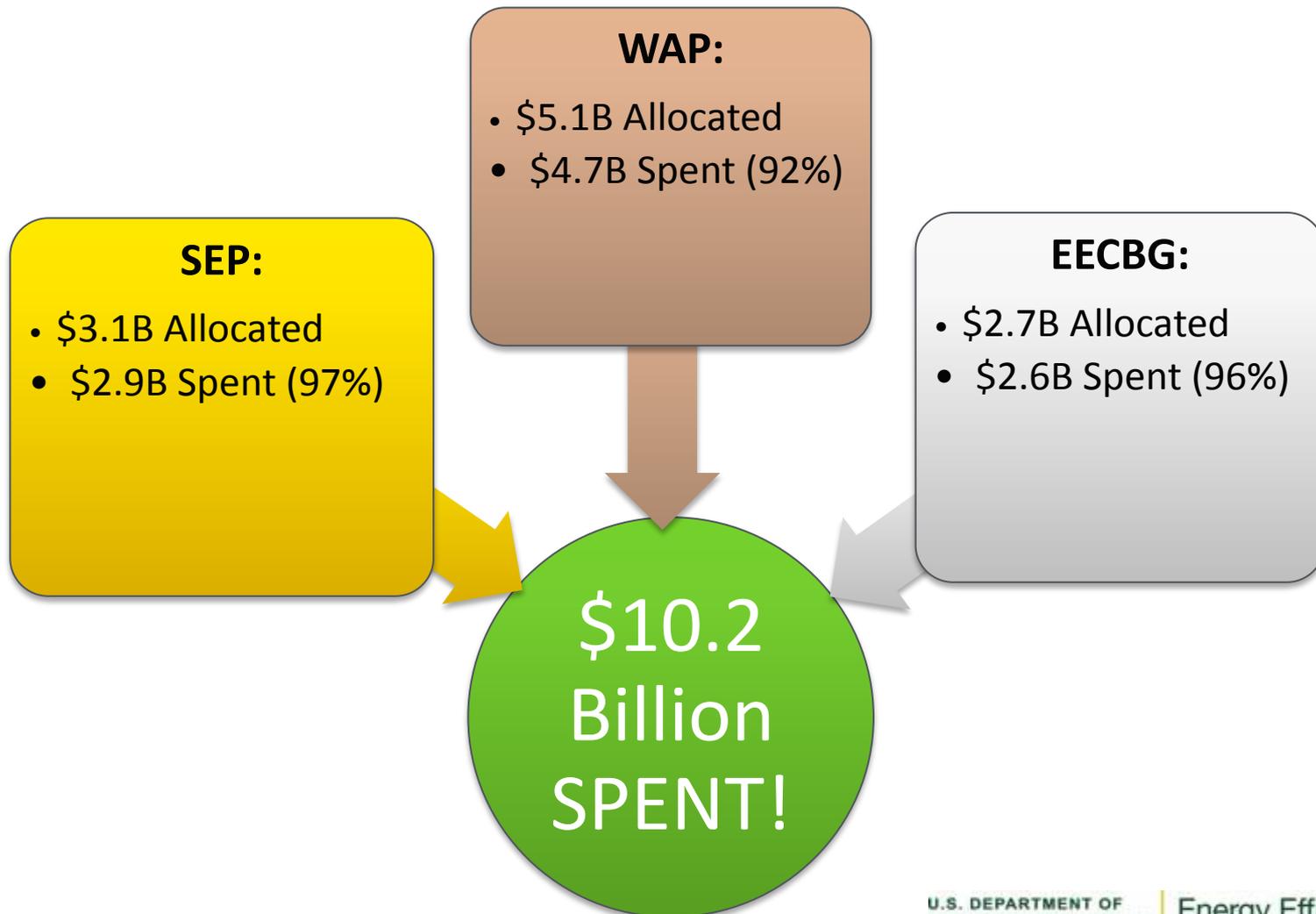


DOE/WIP goals:

1. **Save Energy!**
2. Collaborate with grantees to create successful energy efficiency programs
3. Understand what makes a successful program
4. Share this information with State Energy Office networks and stakeholders like NASCSP
5. Replicate successes across the country

Recovery Act: What Was Spent?

Total Spending as of February, 2013



Weatherization Snap Shot: 2009 to Present

Recovery Act and Base since 2009: Weatherized more than **ONE MILLION homes**

Job Creation: Weatherization created the seventh largest jobs market throughout the Recovery Act – supporting as high as **15,400 living wage jobs**. It now ranks second in the portfolio while supporting over 5,000 direct jobs

Estimated Energy Savings:

- Based on an annual energy savings of 29 million British Thermal Units (Btu) per home weatherized, the weatherization of more than one million homes has contributed to a total annual energy savings of **28.7 trillion Btus** to date
- Based on a Green House Gas (GHG) savings of 2.65 metric tons of Carbon Dioxide per home retrofit, the weatherization of over one million homes has contributed to **over two and a half million metric tons of GHG emissions avoided** through reduced energy consumption to date

A 2005 evaluation conducted by Oakridge National Laboratory calculated the estimated annual energy savings in Btus and Greenhouse Gas (GHG) savings in metric tons of Carbon Dioxide per home weatherized. (http://weatherization.ornl.gov/pdfs/ORNL_CON-493.pdf)

Recovery Act: SEP and EECBG Success

Select achievements through December 31, 2012:

- **Retrofit of 190,000 Buildings for Energy Efficiency (1.4 billion square feet)**
- **Installation of Renewable Energy Systems with a total capacity of 800,000 kilowatts**
- **Installation of 300,000 energy efficient traffic signals**
- **Installation of more than 200,000 energy efficient streetlights**
- **More than 10,000 Jobs Created or Retained during a peak Recovery Act period (January 1 – March 30, 2011)**



Weatherization Assistance Program: Investing in the Future

WAP continues investing in the foundation for high quality energy upgrades in America's homes.

- The Guidelines for Home Energy Professionals - *Summer 2013*
- The WAP Standardized Training Curriculum - *Available Now*
- National Weatherization Training Portal - *Available Now*
- Multifamily Suite of Resources - *Fall 2013/Winter 2014*
- Weatherization Plus Health Initiative - *Ongoing*

The **Weatherization Plus 2015** Initiative is an expanded focus on whole-house energy usage and whole-community efforts.

WAP is reviving the initiative started in 1999 and carried through mid-2006 with strategic planning efforts to reach the goals of four subcommittees:

- Leverage assistance through training centers
- Developing new markets
- Improving quality
- Messaging of program

Guidelines for Home Energy Professionals

With Recovery Act funds, WAP is developing guidelines for work quality, training effectiveness and professional certifications that will form the basis for the residential energy upgrade market

Standard Work Specifications

Doing the work right

- Defining the desired outcomes for any weatherization or home performance task to be effective, durable and safe. The SWS online tool will go live in March, 2013.

Accreditation of Energy Efficiency Training Programs

Training others to do the work right

- Verifies that organizations training workers in the industry are qualified to teach to national standards and develop a highly skilled workforce



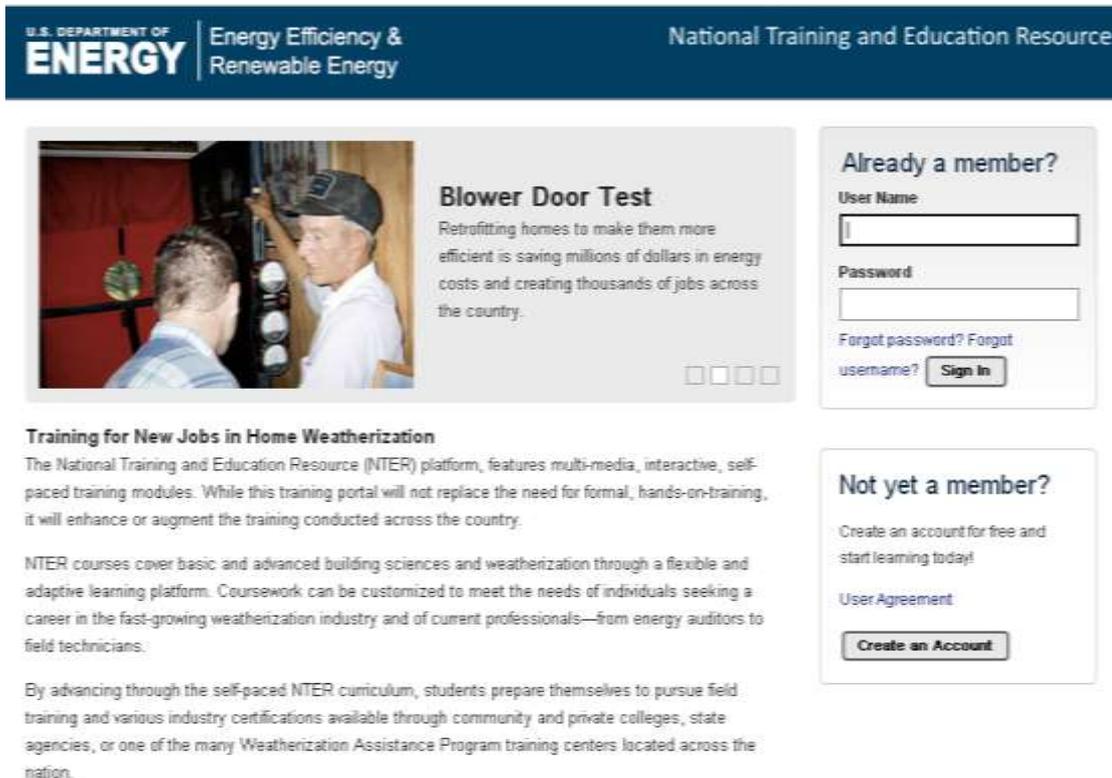
Home Energy Professional Certifications:

Proving that you can do the work right

- National roll-out of the certifications will begin between May and August, 2013

National Weatherization Training Portal

The National Training & Education Resource (NTER) is helping WAP train workers fast and efficiently. The NTER was engineered to support a wide variety of training needs for future sustainability of weatherization services.



The screenshot shows the NTER portal header with the U.S. Department of Energy logo and the text "Energy Efficiency & Renewable Energy" and "National Training and Education Resource". Below the header is a featured article titled "Blower Door Test" with a photo of two men working on a house. The article text reads: "Retrofitting homes to make them more efficient is saving millions of dollars in energy costs and creating thousands of jobs across the country." Below the article is a section titled "Training for New Jobs in Home Weatherization" with the following text: "The National Training and Education Resource (NTER) platform, features multi-media, interactive, self-paced training modules. While this training portal will not replace the need for formal, hands-on-training, it will enhance or augment the training conducted across the country." Below this is another paragraph: "NTER courses cover basic and advanced building sciences and weatherization through a flexible and adaptive learning platform. Coursework can be customized to meet the needs of individuals seeking a career in the fast-growing weatherization industry and of current professionals—from energy auditors to field technicians." The final paragraph reads: "By advancing through the self-paced NTER curriculum, students prepare themselves to pursue field training and various industry certifications available through community and private colleges, state agencies, or one of the many Weatherization Assistance Program training centers located across the nation." To the right of the article is a login form with the heading "Already a member?" and fields for "User Name" and "Password", a "Sign In" button, and links for "Forgot password?" and "Forgot username?". Below the login form is a registration form with the heading "Not yet a member?" and a "Create an Account" button, along with a "User Agreement" link.

- To date, \$800 million leveraged in open source code from Federal and commercial entities
- An estimated \$1.1 billion will be saved by the federal government over 10 years if NTER is used for agency training
- A 72% in reduction of traditional learning technology costs is estimated

Weatherization Plus Health



Voluntary initiative sponsored by DOE to enable the comprehensive, strategic coordination of resources for energy, health, and safety in low-income homes



Outcome: enhanced collaboration among public agencies and private organizations, yielding safer and more energy efficient homes, lower home energy costs, and healthier families

Looking Ahead: Weatherization Plus 2015 Initiative

An expanded focus on whole-house energy usage and whole-community efforts.

Since 1999, Weatherization has engaged in a strategic process to outline 5-year goals for the Program to achieve.

The Wx Plus 2015 initiative faces challenges for planning for the program in a diminished resource environment while creating a framework that will support expansion and revitalization as resources are available.

A Committee report published in Fall of 2012 outlines the following topics :

- Streamline the Program
- Improve the Quality of Services
- Leverage Additional Resources
- Take the Communications Initiative
- Encourage New Market Development



Replicable Business Models: Better Buildings Alliance

The Better Buildings Alliance is an affiliation of members from the commercial market working to develop and deploy energy-saving technologies and solutions

200+ members in retail, food service, commercial real estate, hospitality, health care, education, and state and local building owners and managers

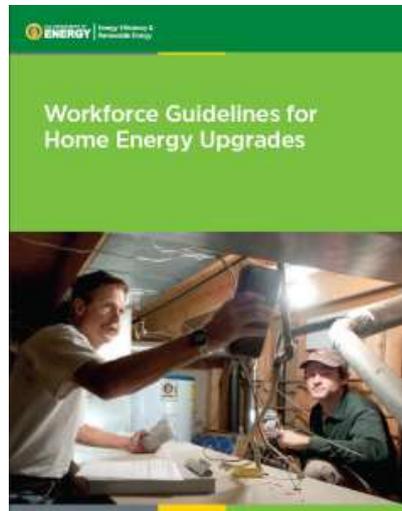
2012 Accomplishments:

- Released five new performance specifications for high efficiency building technologies, catalyzing innovation and helping members procure higher efficiency building technologies
- Launched the Lighting Energy Efficiency in Parking campaign, a multi-organizational effort to increase adoption of the Alliance's lighting specifications.
- Worked on developing market-based solutions, focusing on the split incentive barrier through green lease language and helping to establish a centralized resource for commercial green Leasing resources

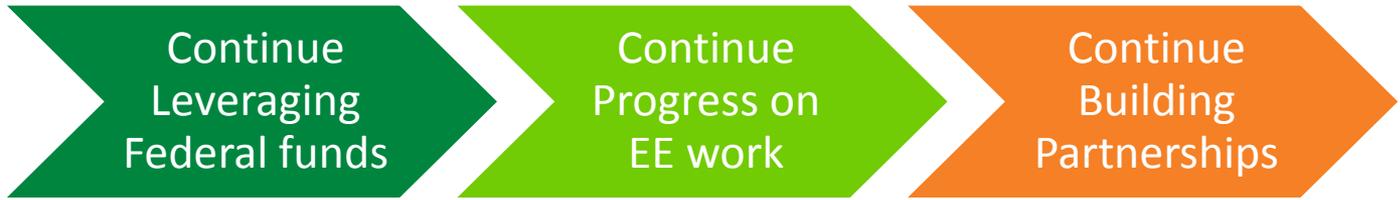
How DOE Will Continue to Help You?

- **With Training and Technical Assistance**
 - The Solution Center: > 600 resources such as webcasts, toolkits, guidebooks, calculators, databases, curricula, blog, etc.
 - Community Energy Strategic Planning Academy: an interactive and collaborative workshop forum

- **National Residential Retrofit Guidelines**
 - Workforce Guidelines for Home Energy Upgrades



Looking Forward: Energy Efficiency is Top Priority



***A Growing
Energy
Efficiency
Industry***

*All of our programs grow stronger
when we exchange our best ideas and
lessons learned!*



Questions? Thank You

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