Weatherization & Intergovernmental Programs Office Update

2017 NASEO Annual Meeting
New Orleans, LA

Anna Garcia
WIP Director
Today’s Topics

• WIP Mission
• WIP Budget
• State Energy Program
• Weatherization Assistance Program
• Partnerships & Technical Assistance Resources
• Strategic & Interagency Initiatives
WIP Mission

• WIP is part of EERE’s “all of the above” national energy strategy to create greater energy affordability, security and resiliency.

• WIP’s mission is to enable strategic investments in energy efficiency and renewable energy technologies and innovative practices across the U.S. by a wide range of government, community and business stakeholders, in partnership with state and local organizations.

• WIP supports DOE’s strategic objective to lower energy costs while expanding energy choices for all American communities. WIP’s near-term activities produce almost immediate results, saving taxpayer dollars, making full use of domestic energy resources, boosting local economic development and job creation, cutting energy waste, improving energy independence and security, and furthering the development of energy infrastructure.
## WIP Budget Summary

<table>
<thead>
<tr>
<th>Breakdown</th>
<th>FY 2015 Enacted</th>
<th>FY 2016 Enacted</th>
<th>FY 2017 Request</th>
<th>FY 2017 Omnibus</th>
<th>FY18 House Marks</th>
<th>FY18 Senate Marks</th>
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<tr>
<td>State Energy Program</td>
<td>$50M</td>
<td>$50M</td>
<td>$70M</td>
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<td>Weatherization Assistance Program</td>
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<td>Total, Weatherization and Intergovernmental</td>
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<td>$300M</td>
<td>$278M</td>
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<td>$265M</td>
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State Energy Program (SEP)
SEP 2017 Funding

• **FY 2017 Formula Grants**
  – 2017 allocations based on $39M.
  – Issued ALRD in record time in 2017!

• **FY 2017 Competitive Awards**
  – SEP anticipates issuing an FY17 Competitive Funding Opportunity Announcement soon!
Simplifying the FOA/ALRD Process

**Formula Grants (ALRD)**

- FY17 ALRD released January 19 - record time!
- 100% of Formula Grants on time and without conditions for the past three years!
- Negotiation calls with states early in process.
- Detailed guidance on budget justifications.
- Changed project period from 5 years to 3 years.

**Competitive FOAs**

- FY16 FOA issued in January instead of April.
- FOA reduced in length.
- Technical Merit Review Criteria reorganized and consolidated.
- New AOI: Up to $75k for TA for states without a prior year comp. award.
- Consistent timeline for application period and selections.
SEP Outcome and Benefits

- Reduced energy waste in 20,000 buildings (125 million square feet)
- 60,000 renewable energy systems installed
- 2,000,000 people educated in energy efficiency and energy audits
- ESPCs executed for public facility retrofits
- Coordination with utilities to implement complementary efficiency programs
- Innovative pilot projects with the private sector, K-12 schools and universities
- Implementation models for replicable programs that achieve energy efficiency savings
Since 2013, 34 states have received SEP Competitive Awards totaling $19.8 million

As a result (select examples)...

✓ Texas developed an online CHP Tool to assist developers and utilities deploy combined heat and power. The tool will support deployment of 10MW+ CHP systems to the transmission grid by reducing the time needed to complete the application (from 1000+ days to an estimated 270 days.)

✓ North Carolina and South Carolina partnered to develop a toolkit to help local officials learn about energy-specific programs and practices that can be implemented to improve air quality.

✓ Maine developed a Supply Chain Database that comprises a comprehensive list of companies and organizations working within the advanced energy technology sectors in the state as a business development resource.

Number of States with Competitive Awards by Topic Area (2013-2016)

- Opportunities for Innovative EE/RE Practices: 20 states
- Advancing Industrial EE/Clean Energy Economic Opportunity Roadmaps: 3 states
- State Energy Planning: 6 states
- Driving Demand for Public Facility Retrofits: 11 states
- TA to Advance SEP Formula Grant Activities: 11 states
- Stimulating Energy Efficiency Action: 11 states
Status of SEP National Revolving Loan Funds

STATS:
- $690M in ARRA funding has been budgeted to 40 state-run financing programs.
- $602M of available funds for RLF programs.
- 110% of available RLF funds have been loaned out to date.

<table>
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<tr>
<th>Sector</th>
<th>RLF Loans Given (#)</th>
<th>RLF Loans Given ($)</th>
<th>Loans Fully Repaid (#)</th>
<th>Loans Fully Repaid ($)</th>
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<td>Agricultural</td>
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<td>2,817,430</td>
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<td>2,334,430</td>
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<td><strong>Total</strong></td>
<td><strong>5,026</strong></td>
<td><strong>648.1M</strong></td>
<td><strong>1,672</strong></td>
<td><strong>103.1M</strong></td>
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</table>
Recently Published SEP Implementation Model!

NEW! Massachusetts’ 2012 SEP-C Award: Schools and Public Housing Integrating Renewables and Efficiency “SAPHIRE” Program

Just Google “SEP Competitive” to find other IMs:
SEP Resources: Operations Manual & Fact Sheet

Available here: energy.gov/eere/wipo/state-energy-program
Michigan’s State Energy Program and Weatherization Assistance Program Activities

Over the years, Michigan has dedicated the Energy Department’s (DOE) State Energy Program (SEP) resources to support a number of energy efficiency projects, such as the Michigan Energy Office Ag Energy Implementation project and the Regional Clean Energy Roadmap Project.

SEP provides funding and technical assistance to states, U.S. territories, and the District of Columbia to advance the clean energy economy and maximize the benefits of energy efficiency through technology deployment. SEP provides financial assistance through two funding mechanisms: Formula Grants and Competitive Awards.

Formula Grant Work

Michigan’s State Energy Program at Work

Community Energy Managers

The Michigan Agency for Energy through the Michigan Energy Office (MEO) provides technical assistance to municipalities and K-12 school districts to adopt best practices, reduce operating costs, create jobs, and free up capital to reinvest in local community. In 2019, Michigan coproduced SEP formula funding to services for 18 Michigan communities. Community Energy Manager activities included developing local energy programs and policies, benchmarking, developing data
2017 SEP National Training Forum (Oct. 3-5)

When: October 3-5, 2017
Where: Denver, Colorado

Event registration open until Sept. 26th!

So far, 95 attendees confirmed (45 states/territories represented!)

Discussion topics include:

- Federal Regulations Overview
- PAGE/Quarterly Reporting
- NEPA and PVE Fund Overviews
- Operations and Procurement
- ARRA Financing Programs
- Competitive Overview

www.energy.gov/eere/sep

Register here
Please Share Your Success Stories!

Inside Utah's First Net Zero Community

Here's How 4 States are Preparing for Hurricane Season

3 Ways Hawaii is Becoming More Energy Efficient

The Power of Energy Savings Performance Contracts

Minnesota aims to reduce energy use in state-owned buildings by 20 percent by 2020
Weatherization Assistance Program
(WAP)
WAP Purpose & Funding Structure

WAP Purpose

- WAP’s purpose is to develop and implement a weatherization assistance program to increase the energy efficiency of dwellings owned or occupied by low-income persons, reduce their total residential energy expenditures, and improve their health and safety, especially low-income persons who are particularly vulnerable such as the elderly, the handicapped, and children.

WAP Funding

- WAP provides core program funding to all 50 states, the District of Columbia, Native American Tribes, and the five U.S. territories – American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and the Virgin Islands – through formula (annual) grants.
WAP Overview

• Servicing eligible households, those at or below 200% of poverty, since 1976.

• Remains the nation’s largest single residential energy efficiency program working in partnership with 700+ state and local-level agencies to deliver weatherization to eligible residents in every county in the nation.

• 39.5 million + households are currently eligible for weatherization; we service 35,000+ homes every year with annual funding.

• WAP has weatherized more than 7 million homes since the program began 40 years ago.
• **FY 2017 Formula Grants**
  – WAP staff are reviewing State Plan Applications for the PY2017 WAP formula grant allocations.
  – As of July 31, thirty-five (35) of the July 1 grants have been submitted.
  – All April 1 states have submitted applications and thirty-eight (38) grants have been awarded.
  – Closeout for 2016 awards is ongoing.

• **FY 2017 Production (to date):**
  – WAP has weatherized 29,200 homes in FY17 so far.
WAP Stimulates the U.S. Economy, Job Growth, and Competitiveness
✓ Leveraged expenditures support **8,500 jobs** and increase national economic output by $1.2 billion per year.
✓ **Savings-to-investment ratio of 4.1 to 1**, including health and safety benefits.

WAP Sets the Standard for the Home Performance Industry
At the direction of Congress, WAP has:
✓ Developed Standard Work Specifications - best practices for home retrofits.
✓ Developed Job Task Analyses (JTAs) - define the Knowledge, Skills and Abilities weatherization crew members need to perform effectively and safely.
✓ Partnered with the Building Performance Institute to build JTA training curriculums and establish appropriate credentials.
✓ Developed certifications for 22 training centers across the country to ensure high quality training for WAP providers and other home retrofit professionals.

WAP Accelerates Deployment of Energy Saving Technologies
✓ Basis of the residential **home performance** industry.
✓ Established **industry standards** including Home Energy Professional Certifications, Standard Work Specifications, and accreditation of national training programs, with input from private sector.
✓ Developed national **training** and **certification** standards to ensure excellence in weatherization.
✓ Integrated **solar into weatherization** services.
WAP Partnerships with Local Governments & Utilities

In 2015, utilities and states supplemented WAP funding by providing an additional $883 million, or $4.62 for every dollar invested by DOE (NASCSP Funding Survey 2015)

- Grantees are permitted to use a small portion of WAP funding to support coordinated efforts with local government and utility programs to expand the services provided to the most vulnerable families.
  - WAP, through a network of 22 state-established training centers, ensures that crew workers are well-trained professionals.
  - WAP has a national network 700+ nonprofit and government agencies (subgrantees to WAP state grantees) to implement programs.

- WAP is working with the health care industry to help reduce the costs associated with treating asthma patients and others conditions caused or made worse by poor indoor air quality.
  - In Washington State, the leveraging funds helped create a statewide pilot program to test the best ways of linking weatherization and health care.

DOE’s Buildings Office released a 2016 report on how performance upgrades improve quality of home’s indoor environment
WAP’s Upcoming Activities

- WAP has established a number of technical and certification standards over the past five years; now is the time to consolidate gains from and ensure effective implementation of the Quality Work Plan, developed at the direction of Congress.

- WAP utilized the American Customers Satisfaction Index to develop an action plan in response to recommendations by the states. The action plan includes 28 steps for DOE involving grant monitoring and correction action plans.

- WAP is holding a series of four Solution Summits to elicit additional feedback from grantees and subgrantees on how to improve the program.
Partnerships & Technical Assistance (P&TA)

- Develop an Energy Plan
- Design and Implement Energy Programs
- Pay for Energy Initiatives
- Access and Use Energy Data
Partnerships & Technical Assistance (P&TA) Team

The Partnerships and Technical Assistance (P&TA) Team cultivates diverse partnerships, provides technical assistance and assists state and local governments to help them:

- **Develop an Energy Plan**
  - Local Energy Planning
  - State Energy Planning

- **Design and Implement Energy Programs**
  - Low-Income Communities
  - Wastewater Infrastructure
  - Outdoor Lighting
  - Energy Efficiency for K-12 Schools
  - Public-Private Partnerships

- **Pay for Energy Infrastructure**
  - EE Finance 101
  - ESPCs, QECBs, PACE, RLFs

- **Access and Use Energy Data**
  - Benchmarking
  - Data Disclosure & Transparency
  - Evaluation, Measurement, & Verification (EM&V)

The P&TA Team serves as the nexus of state and local governments to catalyze lead-by-example programs by:

- Developing tools and solutions to barriers facing state and local government utilization of efficiency and renewable energy;

- Convening and creating peer exchanges to showcase public-sector leadership and effective public-private partnerships; and

- Providing information from leading technical experts.

**Resulting Benefits**: P&TA supports the energy priorities of state and local governments to save taxpayer dollars and make full use of domestic energy resources, boost economic development and job creation, cut energy waste, improve energy independence and security, and further develop energy infrastructure.
Better Buildings Challenge—Public Sector

The goal of the Better Buildings Challenge (BBC) is to improve the efficiency of American commercial, institutional, and multifamily buildings and industrial plants by 20% or more over 10 years. WIP’s P&TA Team manages the BBC public sector (state, city and K-12) partners.

WHAT ARE THE RESULTS SO FAR?
Public Sector Better Buildings Challenge Partners Are Having a Tremendous Impact:

- **Energy Saved:** 45 trillion Btus
- **Dollars Saved:** $420 million
- **Avoided Carbon Emissions:** 2.9 million tons
- **Water Saved:** 1.5 billion gallons

*Cumulative results through 2016*
Public Sector Accelerators

CURRENT INITIATIVES
(Launched May 2016)

Sustainable Wastewater Infrastructure of the Future (SWIFT) Accelerator

- 30% energy savings
- + 80+ wastewater facility partners across 24 states

Clean Energy for Low-Income Communities Accelerator (CELICA)

- More than 30 partners have developed action plans and joined peer exchange groups to address barriers to lowering energy bills for underserved communities

OUTCOMES

- 100% of facility partners actively tracking energy performance data
  - Energy measure planning tool complete
  - Energy data guide for wastewater sector due for publication in October

- Created a Suite of Low-Moderate Income (LMI) Baselining Tools:
  - Low Income Energy Profiles for All 50 States
    - Stakeholder Overview
    - Baseline Assessment Guide
    - LMI Financing Programs Paper

OTHER ACCELERATORS OF INTEREST:
CHP for Resiliency & Zero Energy Schools/Districts

September 2017
Technical Assistance Toolkits

ESPC Toolkit Available!
- Catalyzed $2.1B in public sector energy efficiency investments via ESPC from 25 partners
- ESPC Toolkit includes:
  - ESPC Virtual Assistant
  - ESPC Champions Toolkit
  - ESPC Networking Toolkit
  - ESPC or Design-Bid-Build Comparison

Outdoor Lighting Toolkit Available!
- Achieved a commitment to upgrade 1.3 million streetlights with an expected annual savings of $48M
- Outdoor Lighting Toolkit includes:
  - Outdoor Lighting Decision Tree Tool
  - Outdoor lighting Challenges and Solutions Pathways Report

- Toolkit webinar recording available; email us: stateandlocal@ee.doe.gov

https://betterbuildingssolutioncenter.energy.gov
**Technical Assistance Resources**

- **AVAILABLE NOW:**
  - Energy Efficiency & Renewable Energy Resources for State & Local Leaders
  - State Planning for VW Settlement Funds: Quick Reference Guide on Stakeholder Engagement
  - Qualified Energy Conservation Bonds (QECBs): Frequently Asked Questions from State and Local Governments
  - Best Practice Guidelines for Residential PACE Financing Programs
  - Leveraging Federal Renewable Energy Tax Credits

- **COMING SOON:**
  - Commercial PACE Factsheet
  - Lessons in Commercial PACE Leadership: The Path from Legislation to Program Launch
  - Energy Data Management Guide
  - BBC Showcase Project from New York

[https://energy.gov/EERE/SLSC](https://energy.gov/EERE/SLSC)
Better Communities Alliance (BCA)

BCA aims to streamline state and local partnerships to deliver integrated, community-scale support that enables local governments to achieve their energy, economic and infrastructure goals, and replicate solutions.

Partners include 44 local governments from more than 20 states and 31 affiliate organizations, including NGOs, foundations, for-profit businesses, and local government networks (NASEO is an affiliate)

RESOURCES/ACTIVITIES COMING SOON:

Resource Portfolio – BCA is releasing a collection of tools and resources that can help local governments overcome challenges

Data Technical Analysis – 26 partners are working with a DOE lab on the analysis of data and information to advance local government energy goals and priorities

Commitments for Better Communities – 6 BCA affiliate partners providing resource opportunities for up to 41 community partners

Innovation Dialogues – enable local government officials to communicate directly with DOE about their opportunities and needs in key areas of community-scale energy innovation. Upcoming:

• International City/County Management Association (ICMA) and National Association of Regional Councils (NARC): October 22 -25 in San Antonio, TX
• National League of Cities (NLC): November 15 – 18 in Charlotte, NC
State and Local Outreach

- State and Local Solution Center—**NEW look!**
  - More than 300 tools, resources, and best practices for states and local governments as they plan for and implement energy projects
  - **6,900+ visits per month**
  - **PACE most popular/viewed topic!**
  - **44% increase in visitors from 2016**

- State and Local Spotlight
  - Monthly update with ~8,000 subscribers

Subscribe: [http://energy.gov/eere/slsc](http://energy.gov/eere/slsc)  
or Email Us: stateandlocal@ee.doe.gov

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**https://energy.gov/eere/slsc/EEREresources**
Strategic & Interagency Initiatives Team (SI2)
Strategic & Interagency Initiatives Team

• **Purpose:** Lead deep dive initiatives and align federal resources to help states and local communities have access to more energy efficiency and renewable energy choices, particularly in underserved communities.

• **Goals:**
  – Through the Clean Energy for Low Income Communities Accelerator (CELICA), support implementation of locally-designed energy efficiency and renewable energy solutions for low and moderate income communities.
  – Demonstrate replicable, scalable models that address barriers to EE+RE access in low and moderate income communities.
  – Align federal policies to ease state and local ability to provide solutions for underserved communities.
  – Advance outcomes in underserved communities in Alaska and other Arctic regions via the Remote Alaskan Communities Energy Efficiency Competition (RACEE).
  – Convene multiple federal agencies to align program practices and promote promising energy solutions for low and moderate income households.
Clean Energy for Low Income Communities (CELICA)

OVERVIEW:
✓ 38 partners (14 state, 10 local, 14 community action and non-profits)

✓ Goal is to enable widespread access to comprehensive programs that offer integrated energy efficiency and renewable energy solutions for low and moderate income (LMI) communities by:
  ▪ Demonstrating promising models for integrated EE/RE programs for low and moderate income communities; and
  ▪ Addressing national policy barriers and align and leverage public sector programs to ease implementation.

OUTCOMES & DELIVERABLES:
✓ More than 30 partners developed action plans and requested assistance on EE/RE programs to lower energy bills for underserved communities.

✓ Several resources and toolkits under development, including:

  ❖ DOE’s SunShot Solar in Your Community Challenge
  ❖ Stakeholder engagement guide
  ❖ TA for WAP/LIHEAP solar, financing programs, and solar programs
  ❖ WAP solar toolkit
  ❖ Partner Web Portal (Resource Library)
  ❖ Program design guide
  ❖ Baselining tools
  ❖ Solar support and financing decision tools
QUESTIONS?

THANK YOU!

AnnaMaria.Garcia@ee.doe.gov