

NATIONAL ASSOCIATION FOR STATE COMMUNITY SERVICES PROGRAMS



# DOE Federal Perspectives I

20  
23

ANNUAL TRAINING  
**CONFERENCE**

SEPTEMBER 25 - 29



G R A N D R A P I D S



**SCEP**  
STATE & COMMUNITY ENERGY PROGRAMS

# Weatherization Assistance Program

**NASCSP Annual Training Conference**  
*September 2023*



# Agenda

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- **WAP Success Stories**
- **Weatherization Funding**
  - WAP Funding Request FY 2024
  - Bipartisan Infrastructure Law (BIL) Update
- **Program/Policy Updates**
- **Innovation**
- **Training & Technical Assistance**



# Weatherization Success Stories – Share your Story!

Send your stories to [wap@hq.doe.gov](mailto:wap@hq.doe.gov)



**Secretary Jennifer Granholm**   
@SecGranholm

...

What's better than saving money on your home? 🏠

Paying \$0 to do it.

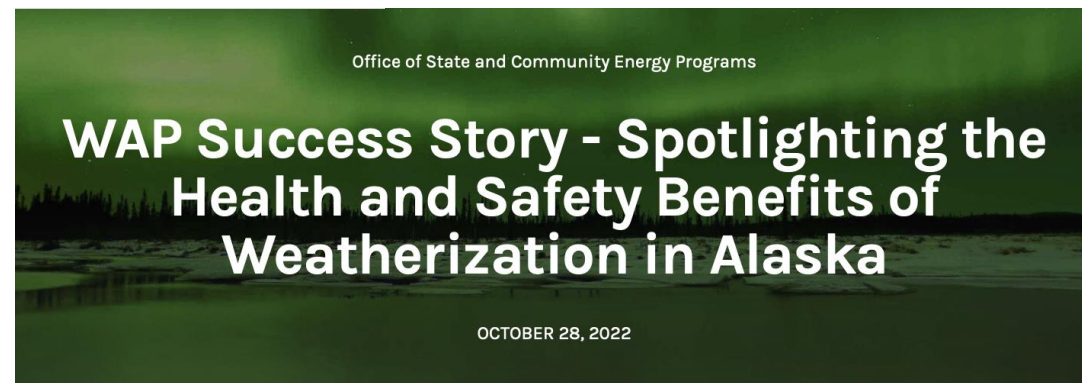
During my road trip, I visited the Tillmans in Athens, Georgia to see how [@ENERGY](#)'s Weatherization Assistance Program helped them cut costs and put money back in their pockets.



11:40 AM · Jul 24, 2023 · 181.5K Views



Office of  
STATE AND COMMUNITY  
ENERGY PROGRAMS



[Office of State and Community Energy Programs »](#)

WAP Success Story - Spotlighting the Health and Safety Benefits of Weatherization in Alaska

This Weatherization Assistance Program (WAP) success story from Alaska shows how weatherization services provide health and safety benefits in addition to energy savings.

## Life Saving Benefits for a Fairbanks Family

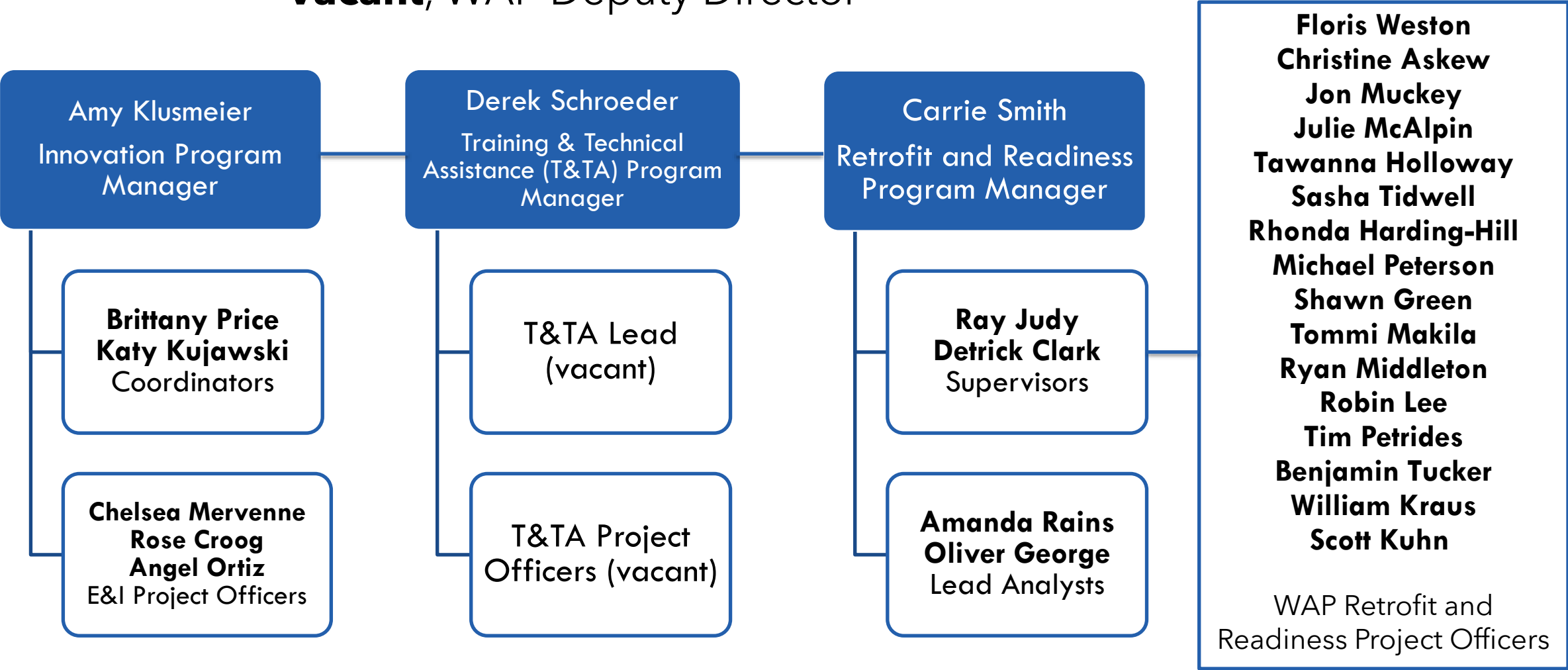
When Pete applied for weatherization services to replace the aging windows and doors in his 1980s home, he had no idea that the services would be transformative and potentially lifesaving for his family.

Pete, who lives with his wife and teenage daughter in Fairbanks, Alaska, informed the weatherization assessment professional that his wife's asthma had worsened over the last year and noted that it may stem from ongoing issues with their boiler. Within just a minute of assessing the boiler, the professional identified toxic levels of carbon monoxide.

The assessor immediately shut off the boiler and ensured the home received a comprehensive set of upgrades to the boiler, an inoperative ventilation system, broken windows and a door, and damaged insulation in the attic. Thanks to weatherization, what started out as a search for windows and doors turned out to be a life saver.

# DOE Weatherization Assistance Program Team

**Anna Garcia**, SCEP Associate Director  
**Vacant**, WAP Deputy Director



# Weatherization Funding

# Weatherization Funding Request

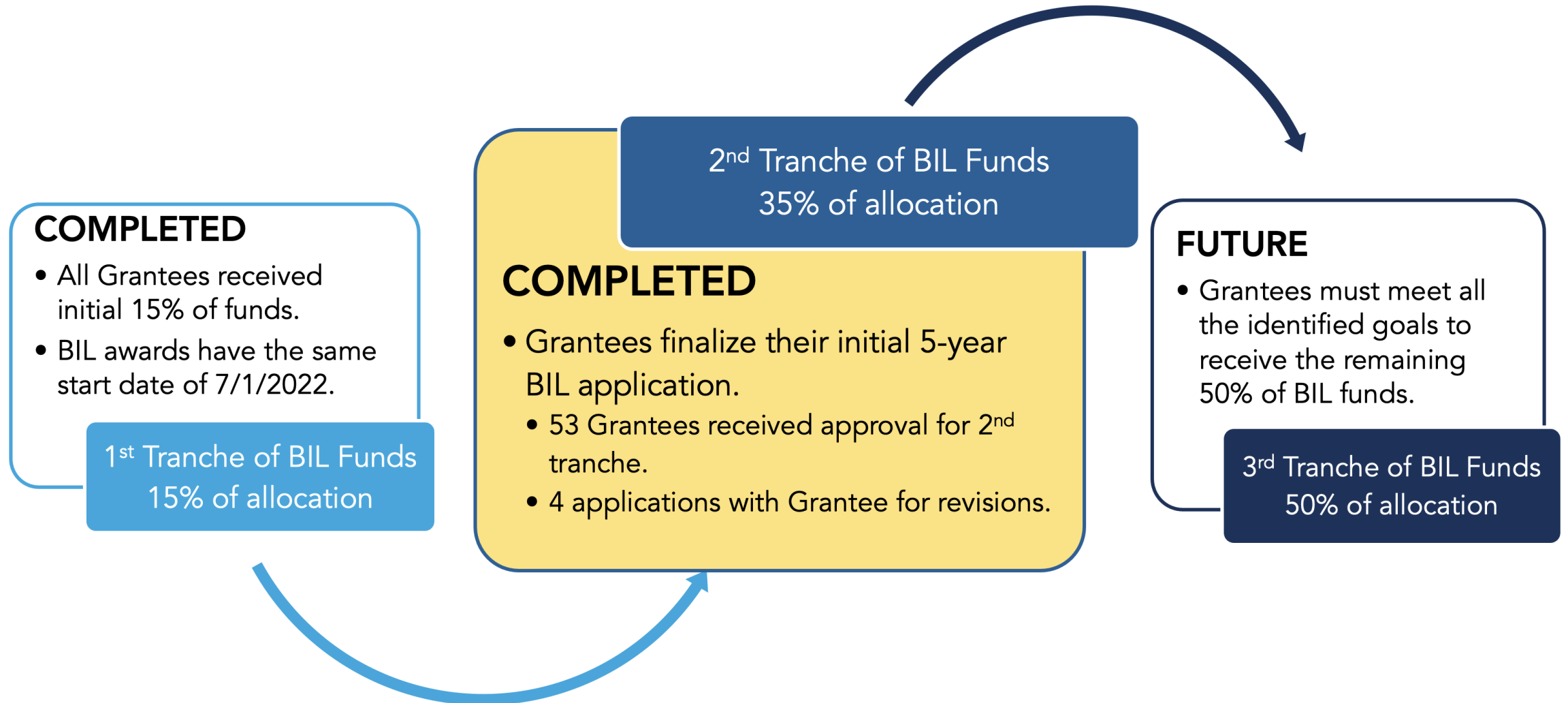
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## FY 2024 WAP Request - \$437 million

- \$375 million: Annual Formula Funds, which include the following:
  - \$22.5 million: Enhancement & Innovation (E&I) @ 6%
  - \$7.5 million: Sustainable Energy Resources for Consumers Grants (SERC) @ 2%
- \$51.8 million: Weatherization Readiness Funds (WRF)
- \$10 million: Training & Technical Assistance (T&TA)
  - \$1M of this is for congressionally directed vermiculite study

**NOTE:** If a budget is not passed and there is a Continuing Resolution (CR) for Fiscal Year (FY) 2024 Grantees should develop their PY 2024 plans using the DOE 2023 appropriated funds from WPN 23-2.

# BIL Timeline Updates





# BIL Grants – Goals for Remaining 50% of BIL Allocation

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**The remaining 50% of the BIL grant will be released once the following goals are achieved:**

- 30% of all BIL units estimated to be weatherized in approved Weatherization Plans are weatherized.
- DOE-approved monitoring plan and inspection protocol implemented.
- Monitoring completed with each Subgrantee at least once per year.
- Local quality control efforts are in place.
- At least 5% completed units inspected by Grantee QCI annually.
- Grantee progress reports are acceptable and submitted in accordance with grant requirements.
- Monitoring reviews by DOE confirm acceptable performance.

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# **Program & Policy Updates**

# Weatherization Readiness Funds

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- **PY22 Weatherization Readiness Funds (WRF) expenditures**
  - 6 Grantees reported 90% or more; 30 Grantees reported 10% or less.

## Reminders:

- Review deferral policies and identify which deferrals are related to structural or H&S issues that could possibly be addressed by WRF.
  - Make sure WRF plan is structured in a way to allow the deferrals to be addressed.
- Consider building in flexibility by including a provision in the WRF plan to allow the Grantee to review and approve WRF projects that exceed the Grantee's WRF maximum price cap.

# Released Weatherization Program Notices & Memorandums

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- **Weatherization Program Notice 23-7: Weatherization Assistance Program (WAP) Modification Guidance for Sustainable Energy Resources for Consumers (SERC) Grants**

- *This notice provides directions to Grantees on how to complete PY23 formula grant modification based on receiving funds for SERC projects.*

- **WAP Memorandum 115: Weatherization Procurement Resources (9/6/23)**

- *This notice provides details on the procurement resources created to assist WAP organizations in meeting the goals of the program.*

- **WAP Memorandum 114: Updates to WAP Optional Regional Priority Lists (9/8/23)**

- *This notice provides updated priority lists and resources for all regions and housing types.*

- **WAP Memorandum 113: Weatherization Assistant Suite of Tools and Transition Requirement Updates (8/29/23)**

- *This memorandum supersedes Weatherization Memo 091 and provides updated transition information and requirements.*

- **WAP Memorandum 112: Notice of Intent to Release a Funding Opportunity for SERC Grants under BIL (8/21/23)**

- *This notice informs the network of WAP's intention to issue the SERC funding*

*opportunity announcement in October 2023.*

- **WAP Memorandum 111: Weatherization Assistance Program Data Collection Updates – REVISED (8/21/23)**

- *This notice pauses the implementation of new data requirement fields until DOE has received approval from the Office of Budget Management.*

- **WAP Memorandum 110: Historic Preservation Review Process for Utilizing Weatherization Assistance Program (WAP) Funds on Tribal Lands (8/21/23)**

- *This notice provides a Historic Preservation process for the network to follow when weatherizing tribal properties 45 years of age or older.*

- **WAP Memorandum 109: HUD Lists (8/29/23)**

- *This notice provides updated HUD property lists and makes updates to the WPN 22-5 FAQs.*

# Weatherization Memorandum 109: HUD Lists

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**Issue Date: August 29, 2023**

## **Eligible HUD Multifamily Buildings:**

A list of multifamily buildings owned and managed by Public Housing Authorities (PHAs) which are categorically eligible for WAP services. These are buildings in which 66% or more units (for buildings of 5+ units) or 50% or more units (for buildings of 2-4 units) are HUD assisted, and they are categorically eligible regardless of occupancy rate.

## **Potentially Eligible HUD Multifamily Buildings:**

A list of HUD-owned and managed multifamily buildings which may be eligible for WAP services. The Subgrantee must verify that the minimum number of units are eligible for weatherization using methods outlined in WPN 22-5. These properties may need further verification either due to a low rate of HUD assisted units or discrepancies in the existing databases.

## **Multifamily HUD Assisted Buildings:**

A list of privately-owned multifamily buildings containing HUD assisted units may be eligible for WAP services. The Subgrantee must verify that the minimum number of units are eligible for weatherization using methods outlined in WPN 22-5, as the number of assisted units can change as occupancy changes.

## **Updated WPN 22-5 FAQs**



# Weatherization Memorandum 110: Historic Preservation Review Process for Utilizing WAP Funds on Tribal Lands

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## Issue Date: August 16, 2023

Provides instructions on how to comply with the National Historic Preservation Act (NHPA) when weatherizing tribal properties 45 years of age or older.

- Tribal properties are not included in the Programmatic Agreements because of tribal sovereignty.
- States do not have the authority to implement a tribal Programmatic Agreement and all tribal property projects 45 years of age or older need to be reviewed by DOE through the submittal of the Historic Preservation Worksheet.
- Resources available:
  - [Historic Preservation Worksheet \(HPW\)](#)
  - [Training Webinar available on Memorandum 110](#)
- Please contact your Project Officer if you have any questions.

# Weatherization Memorandum 115: WAP Procurement Resources

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**Issue Date: September 6, 2023**

- Provides examples for *illustrative purposes only* of documents that can be used in purchasing services and/or materials.

## Procurement Resources



### Step-by-Step Process for Procurement

Provides basic checklist or framework for procurement and allows the organization to identify steps critical in their journey.

## Step by Step Process Matrix

Provides examples of key procurement materials:

- Contractor application and debarment/suspension forms
- General Instructions Template for Request for Quotations (RFQ)
- Specifications examples
- Evaluation criteria examples

# Memorandum 104: Build America, Buy America Requirement

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**Issued Date: May 18, 2023**

- BIL established a domestic content procurement preference for **all federal financial assistance** obligated for infrastructure projects after **May 14, 2022**, known as “Build America, Buy America” (BABA).
- Per BABA requirements, most projects typically addressed by WAP *will not be subject to these requirements*.
  - Only weatherization on public housing, or on privately owned buildings that serve a public function are required to comply with the BABA requirements.
- When necessary, recipients may apply for, and DOE may grant, a waiver from the Buy America Preference requirements.
  - Details on how to apply for a waiver are in [Memorandum 104](#).
  - <https://www.energy.gov/management/doe-buy-america-requirement-waiver-requests>

# Davis Bacon Compliance Resources – Coming Soon

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- FAQs – WAP specific items.
- Network-wide trainings so everyone is on same page!
- DOE procured compliance tool LCPTracker– aimed to assist network with DBA compliance. Key features:
  - Will have common interface characteristics so agencies/contractors can easily upload payroll and meet compliance filing requirements.
  - Will provide “read only” access to Grantees and DOE to meet necessary oversight.
  - Will meet DOL requirements and immediately flag any inconsistencies or compliance issues.
  - Anticipated start will be **December 2023**.
  - All WAP BIL funded projects that must comply with Davis Bacon will be required to use LCPTracker.

# Coming Soon | WPN and Memorandums

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**DOE is currently working on Program Notices and Memorandums on the following topics:**

- Vehicle and Equipment Purchases
- Monitoring
  - Formula, BIL and E&I
- Solar PV Warranty
- WPN BIL 22-1 Updates
  - Davis Bacon
  - ACPU
- PY24 Annual Application Redline

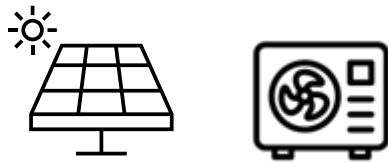


# WAP Innovation

# WAP Innovation Grants

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## Sustainable Energy Resources for Consumers (SERC)



Renewable energy and new technologies.

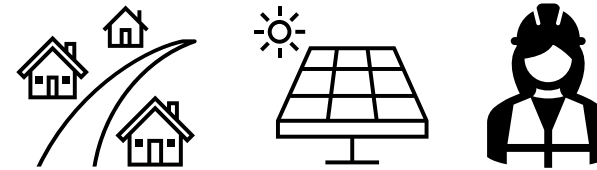
**\$70 million**

**BIL opportunity coming soon!**

**First round of 5 awards released PY 2022.**

**Second round of PY 2023 awards in process.**

## Enhancement & Innovation (E&I)



Place-based readiness, health and safety, workforce development, renewable energy.

**\$25 million**

**BIL E&I opportunity closed August 31**

**First round of 21 awards released March 1, 2023.**

# Innovation Webpage

## [Weatherization Innovation | Department of Energy](#)

<https://www.energy.gov/scep/wap/weatherization-innovation>

Questions?

[Weatherization.Innovation@hq.doe.gov](mailto:Weatherization.Innovation@hq.doe.gov)

### Apply for an Innovation Grant

DOE WAP Grantees,  
Subgrantees, and Non-Profits

[VIEW MORE](#)



### About the Innovation Grants

[VIEW MORE](#)



# Upcoming BIL SERC Funding Opportunity | 2024

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	Sustainable Energy Resources for Consumers (SERC)
Available funding	\$70 million
Purpose	Materials, benefits, and renewable and domestic energy technologies not covered by the program
Maximum Award	n/a
Period of Performance	WAP BIL Period of Performance
Eligible Entities	Current WAP Grantees and WAP Subgrantees if certified by WAP Grantee
Statute	<a href="#">42 USC 6872</a>

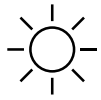
## Reminders:

- Davis Bacon provisions will apply to buildings with 5 or more units
- Savings to Investment Ratio (SIR) and Average Cost Per Unit (APCU) do **not** apply
- SERC BIL funding announcement in Fall 2023

# SERC Overview

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**SERC funds are available to WAP Grantees. Subgrantees may apply for the funds with Grantee certification that the Grantee will administer SERC.**



Solar PV



Heat Pump Technologies – all types



Energy Recovery Ventilation Systems



Water heaters – tankless, solar, electric



Cool roofs



Innovative insulation technologies



# SERC Fund Flexibilities

## SERC funds may be braided with:

1

### DOE WAP Funds

- Retrofit, Readiness, E&I, CSPP
- Different project objectives
- SERC funds full measure cost

2

### Other Federal/Non-Federal Funds

3

### DOE Rebates (pending DOE and State Energy Office guidance)

- Each fund type pays for full measure cost



# Enhancement & Innovation (E&I) Funding Opportunity

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- **BIL E&I FOA - \$25 million**
  - Announced June 27, 2023 – WAP Memorandum 108
  - FOA available on the [Clean Energy Infrastructure Funding Opportunity Exchange](#)
- **Concept Paper Submission Deadline: August 31, 2023**
- **Full Application Submission Deadline: January 5, 2024 @ 5:00pm ET**

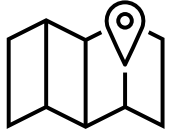
Maximum award amount: **\$2 million**

Period of Performance: **3 years**

Eligible Entities: WAP Grantees, WAP Subgrantees and nonprofit entities

FOA Topic Areas: Multifamily Housing  
Single Family & Manufactured Housing  
Workforce Development

# Low-income Energy Affordability Data (LEAD) Tool



## Geographic Boundaries

- National, state, county, tribal, city, and census tract boundaries.
- Includes 50 states, DC, Puerto Rico, and federally recognized tribes



## Household Characteristics

Households can be broken down by:

- Area Median Income (AMI)<sup>1</sup>
- State Median Income (SMI)
- Federal Poverty Level (FPL)<sup>2</sup>
- **NEW:** demographics<sup>3</sup>



## Housing Unit Characteristics

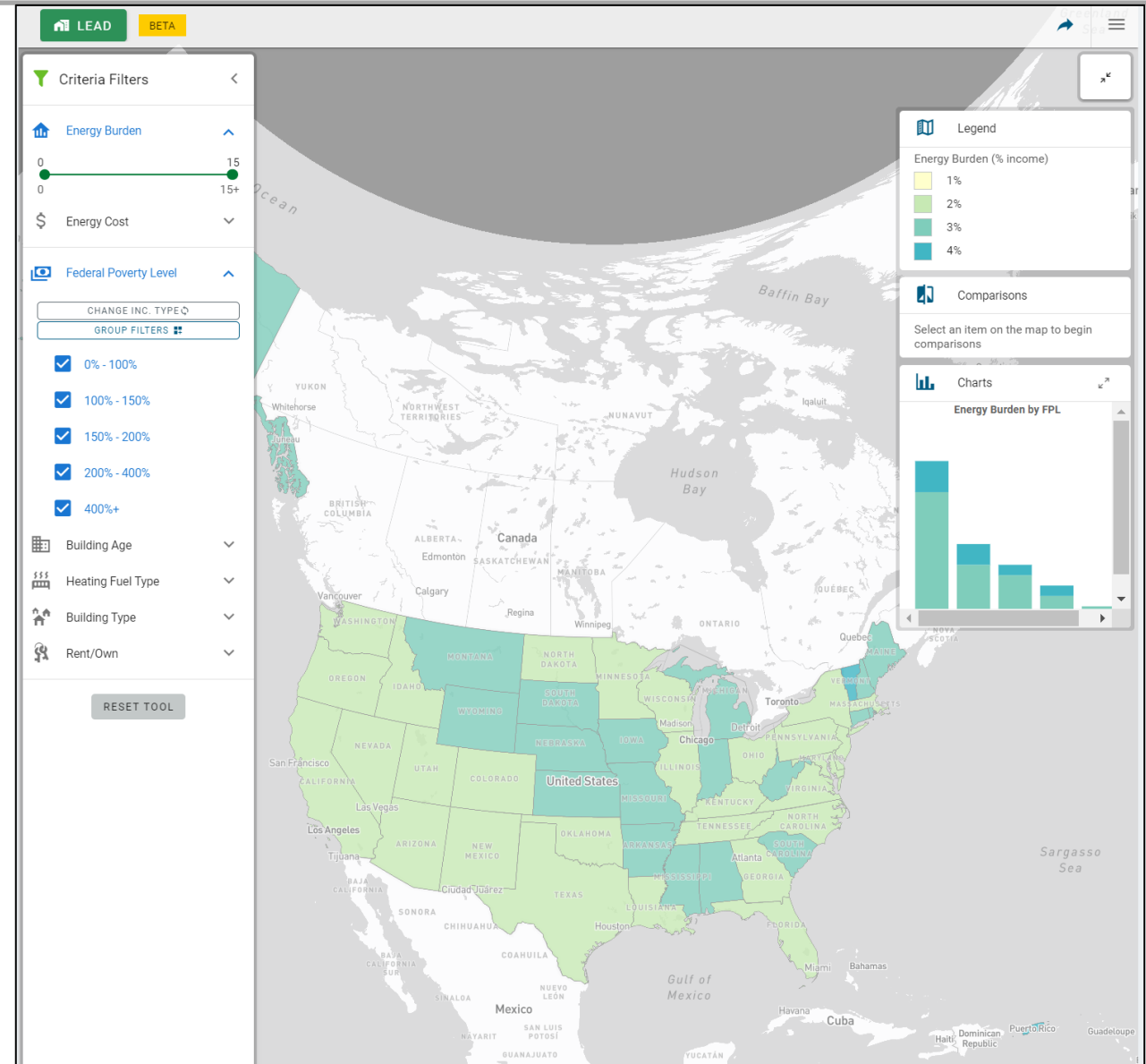
Users can analyze energy expenditures by:

- Occupant type (owner, renter)
- Building age
- Building type
- Number of units in building
- Primary heating fuel type



## Energy Expenditures

- Average annual energy cost
- Average energy burden (% income)



1. AMI and SMI categories: 0-30%, 30-50%, 50-80%, 80-100%, 100%+
2. FPL categories: 0-100%, 100-138%, 138%-200%, 200-400%, 400%+
3. Demographics include race and education attainment

# LEAD for WAP

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- **WAP is evaluating additional data layers to better address the needs of the Network. Examples include:**
  - Training Center locations and information
  - Subgrantee service territories
  - Electric service territory boundaries
- **Focus Groups**
  - Invitations will go out late September/early October
  - Participants will have an opportunity to provide feedback on LEAD's interface, data layers, and ease of use
  - If you are interested in participating, please send an email to [Chelsea.Mervenne@hq.doe.gov](mailto:Chelsea.Mervenne@hq.doe.gov)

# **WAP Training and Technical Assistance**



# Memorandum 113: Weatherization Assistant Transition

**Issue Date:** August 29, 2023

Questions on WAweb? Contact your Technical Project Officer or Bill Eckman, ORNL.

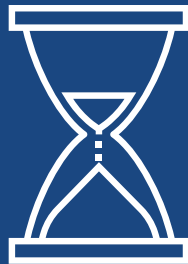


## Transition Timeline

**Must be in process** with WAweb transition at least six (6) months before award start date.

**April Grantees** by October 1

**July Grantees** by January 1



## Extension Option

**Any option on an extension deadline?**

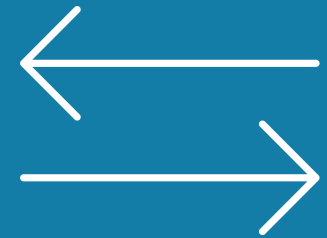
>> Short answer is no.

Only situation an extension will be granted is if ORNL experiences technical issues that prevents Grantee's transition plan to be completed.



## WAweb Availability

WAweb is fully functional and available for Grantees to transition immediately.



## API Functionality

ORNL is working with developers on WAweb API functionality. Will be ready for implementation no later than April 1, 2024.

**Any Grantee not using the API can transition immediately.**

# Memorandum 114: Regional Priority List Updates

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Issue Date: September 8, 2023

## UPDATES:

### Optional heating & cooling equipment measures:

- Updated protocols and transition to Seasonal Energy Efficiency<sup>2</sup>, Energy Efficiency Rating<sup>2</sup>, and Heating Season Performance Factor<sup>2</sup> minimum efficiency ratings.

### Programmable thermostats:

- Clarification that programmable thermostats are a required part of the optional HVAC installations.

## REQUIREMENTS & TIMING:

Effective immediately for all new projects after **October 1, 2023**.

Grantees must update all associated measure lists, forms, and materials.

# Oak Ridge National Laboratory (ORNL)

## Weatherization Assistant

- Suite of energy analysis and measure selection tools
  - Single-family site built (NEAT)
  - Manufactured housing (MHEA)
  - Multifamily housing (MulTEA)
  - Residential health and safety (H&S Audit)
- Analysis and results tailored to individual building (e.g., construction, climate, costs)
- Engineering and technical resources
- Training provider support

## Technical Assistance

- Scientific analysis of potential program enhancements
- Primary source for technical assistance related to energy analysis
- Direct assistance to Weatherization Assistant users
- Technical and scientific review of program proposals
- Ad hoc analyses as-requested

## Research

- Program performance (impact) evaluation (e.g., retrospective evaluation)
- Study and analysis of existing and/or potential measures (e.g., multifamily ventilation)
- Review of other program practices (e.g., treatment of homes with vermiculite insulation)

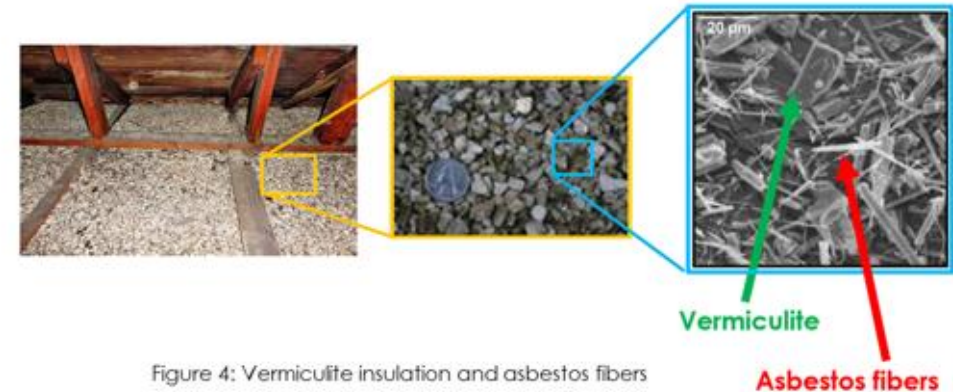
# Oak Ridge National Laboratory (ORNL)

## 2.3 Vermiculite Study

- Expand WAP knowledge base regarding vermiculite insulation
- Perform field study to evaluate the impact on indoor asbestos levels of
  - Current weatherization activities in homes with vermiculite insulation
  - Positive-pressure air leakage in homes with vermiculite insulation
- Evaluate the asbestos exposure hazard of weatherization workers in homes with vermiculite insulation

## Additional Benefits

- Increase knowledge of potential non-energy impacts
- Identify best practices for weatherization



# Oak Ridge National Laboratory (ORNL)

## Evaluation and analysis

- Weatherization Readiness Fund evaluation\*
- Retroactive program impact evaluation\*
- Evaluation of DOE quality assurance efforts based upon audit data
- Maximizing energy conservation measures\*
- Default energy conservation measure lifetime evaluation\*
- Measurement and verification of retrofits\*

\*Tasks performed in collaboration with Model America, NREL, LBNL, EnergyPlus, and/or Georgia Institute of Technology

## Technical support

- Regional priority list generation\*
- Analysis of non-energy impacts in WAP cost-effectiveness calculations\*
- Audit Tool Dashboard development
- Weatherization Assistant enhancement (e.g., Model America/AutoBEM)\*
- Residential fuel-switching/decarbonization analysis
- Weatherization Assistant input/output API development
- Central mechanical ventilation in multifamily buildings\*
- Standardized health and safety packages\*

# National Renewable Energy Laboratory (NREL)



## Technical

- Guidelines for Home Energy Professionals (GHEP) Standard Work Specifications (SWS)
- Certifications for Energy Auditor and Quality Control Inspector
- Retrofit Installer Badges, 3D House, and Job Aids
- Weatherization Assistant Support
- WAP Data Collection and Analysis



## Programmatic

- Continuous Improvement Workshops
- WAP Online Trainings
- Innovation Technical Assistance
- Workforce Development Support
- Stakeholder Coordination and Analysis
- Resource Development for WAP Implementation

# National Renewable Energy Laboratory (NREL)

## Workforce Development Toolkit

New interactive only tool supporting workforce development in WAP, including:

- Overview of approaches for workforce development
- Links to key DOE, NASCSP, NCAP, and NREL resources
- WAP case studies of innovative workforce development programs
- Information on developing and funding workforce programs.

### Workforce Development Toolkit for the Weatherization Assistance Program

Weatherization Assistance Program

Weatherization Assistance Program » Workforce Development Toolkit for the Weatherization Assistance Program

Workforce development is the process of recruiting and preparing workers to meet the needs of employers and putting the systems in place to promote success and advancement of workers over the span of their careers.

This toolkit provides workforce development information and resources applicable to the Weatherization Assistance Program (WAP). It is organized by the different stages within workforce development and includes both resources and WAP-specific case studies for each.

#### Funding Workforce Development

Many of the workforce development activities described on this page can help improve the quality and efficiency of your organization. As such it is important to plan and budget for this each program year. This section provides some ways that WAP organizations can fund their workforce activities.

TRAINING AND TECHNICAL ASSISTANCE FUNDS	+
ENHANCEMENT AND INNOVATION GRANTS	+
OTHER FUNDING SOURCES	+

#### Building a Workforce Pipeline

There are many factors that affect how easy or difficult it is to find workers. Some of these, like the broader state of the economy, are beyond the control of individual organizations or hiring personnel. But there are many steps that organizations implementing WAP programs can take to help grow the pool of potential workers and provide clear pathways for them into weatherization.

One valuable thing a WAP organization can do is to create local workforce and education partnerships. It is not only up to your organization to develop the talent you will need on your staff in the future; there are many organizations in your community that are engaged in working with populations that could be potential WAP workforce.

#### On This Page

- Funding Workforce Development
- Building a Workforce Pipeline
- Hiring and Onboarding
- Training, Upskilling, and Professional Development
- Staff Retention, Company Culture, and Diversity, Equity and Inclusion
- Working with Contractors
- Other Resources



# National Renewable Energy Laboratory (NREL)

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## Upcoming NREL Workforce Development Efforts

To support workforce development needs, NREL is working on the following:

- [Technical assistance](#) on workforce partnerships with NASCSP and IREC (Open now!)
- Online platform for Retrofit Installer Badges (October)
- Leadership development training cohort with NCAP (Fall 2023)
- Update WAP wage survey analysis with NASCSP
- Develop an ACPU Wage Sensitivity Calculator
- Develop resources to better support WAP subcontractors.



## WAP and Building Technologies Office (BTO) Joint Task

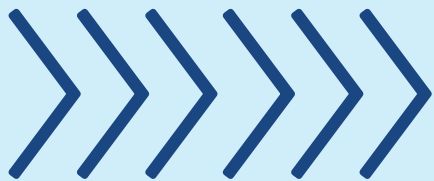
- WAP and BTO collaborated to purchase the Residential Energy Dynamics RedCalc tool.
- The tool has been acquired and will be fully developed/maintained at PNNL. PNNL has received the software code and set up an internal version for development.
- The tool will be integrated into the [Building America Solution Center](#).
- The tool will go through a BETA release, which is expected to happen late winter 2023/2024.
- Spring 2024, DOE will provide FOR FREE, the system now known as RED Calc Pro and rebranding it.
- The new system will:
  - Support all major, modern browsers
  - Be mobile friendly
  - Work offline
  - Allow users to organize data into folders
  - Sync data for cross-device usage
  - Support customizable report headers and footers
  - Support PDF reports



**Thank You!**

# WPN 23-4: Weatherization Readiness Funds – Expansion of Scope

## WRF CARRYOVER



**Funds can be carried forward into the next budget period within the same grant cycle.**

For example, PY 2022 funds can be carried over into PY 2023.

## WRF FUNDING FLEXIBILITY



Dwellings that receive WRF to make them “weatherization ready” **can be weatherized with either DOE Formula or BIL funds.**

## WRF PRODUCTION



Dwellings receiving WRF do not need to be completed within the same PY but must be completed within the **same grant cycle and within a reasonable time.**

Grantees must define what that reasonable time is within their WRF plans.

# Multifamily Weatherization Project Submissions

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## Administrative Submittal Checklist

- ✓ Building income eligibility information
- ✓ Building owner permission
- ✓ Owner/Tenant agreements
- ✓ Project demographics per DOE reporting requirements
- ✓ Description of accrual of benefits to tenants' documentation (if master metered property)
- ✓ Owner buy-down or leveraging agreements
- ✓ Declaration of compliance with Davis-Bacon (BIL only) and/or Buy American

## Technical Submittal Checklist

- ✓ Electronic file of that audit (or a hard copy of the entire audit)
- ✓ Proposed statement of work including costs
- ✓ Estimated first year savings
- ✓ Savings to Investment Ratios (SIRs) and cumulative SIR
- ✓ Narrative description of the existing project
- ✓ Defined building envelope
- ✓ Building mechanical equipment and associated facilities and the proposed improvements
- ✓ Building assessment including photos and dimensions and the complete building audit

EVALUATION QR CODE

