

## Agenda

- The Workforce Challenge
- **Green Workforce Connect**
- **Building a Workforce Pipeline**
- **Workforce Outreach and Engagement Tools**
- **Career Pages and Job Posts**
- **More Workforce Resources**
- What Are You Going to Do Next?

# The Workforce Challenge

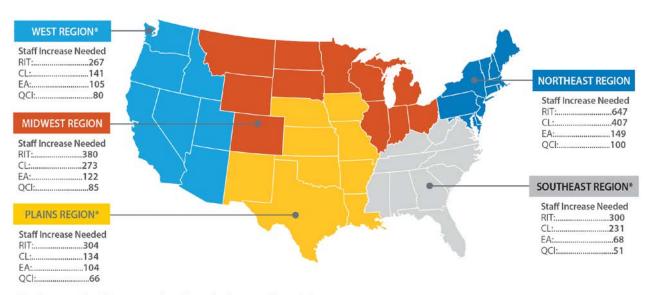


- In a survey for the <u>2023 U.S. Energy and Employment</u>
   <u>Report</u>, **92% of U.S. energy efficiency employers reported** difficulty in finding qualified workers
- In a 2022 <u>national survey</u> of workers on residential construction job sites, 25% were thinking of leaving their job.

## The Workforce Challenge

### Weatherization Snapshot

Regional Subgrantee Job Gap to Meet Production Associated with BIL Funding



\*Results may not be fully representative of the region due to small sample size.

Image Source: NREL Presentation at 2023 NASCSP Winter Training Conference

- According to an <u>NREL questionnaire from 2022</u>, the Weatherization Assistance Program (WAP) Subgrantee labor needs related to the influx of Bipartisan Infrastructure Law funds **may grow by around 4,000 positions nationwide**.
  - Around 1,900 Retrofit Installers
  - Around 1,200 Crew Leaders
  - Around 600 Energy Auditors
  - Around 450 Quality Control Inspectors.
- Challenges relate to recruitment and retention of staff and contractors.

### **The Opportunity**

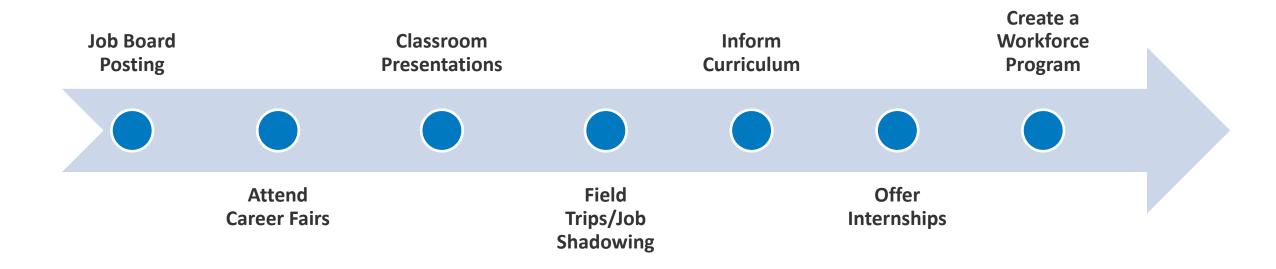


PowerPoint Stock Image

- New federal and state funding opportunities to support clean energy workforce development efforts (including WAP training and technical assistance).
- New WAP-specific workforce development resources and efforts.
- Many organizations are looking to align and partner with clean energy and weatherization efforts for the first time.
- Many young people in the United States are looking for work that offers purpose, community benefits, and environmental benefits.

## Building a Workforce Pipeline

## Many Ways to Get Involved



Your level of engagement will depend on: (1) your availability, (2) school offerings, and (3) instructor interest.

### WAP Workforce Case Studies

## Learn about weatherization workforce success stories:

- WAP Successes & Solutions
   Center (New!)
- Workforce Development Toolkit.

## Successes & Solutions Center of the Weatherization Assistance Program

Weatherization Assistance Program » Successes & Solutions Center of the Weatherization Assistance Program

The Weatherization Assistance Program (WAP) is implemented by a network of almost 800 state and local agencies across the United States, Washington, D.C., and five U.S. territories. Collectively, these agencies have found creative solutions to challenges that are common to many WAP agencies.

The WAP Successes & Solutions Center provides a centralized and searchable hub for successful solutions (big and small) that are helping WAP organizations improve processes or outcomes for staff and clients.

You can search for solutions by location (state), by keyword, or by category.

Archived item will not be accessible Showing 1 to 20 of 23 entries Category Search: □ Client Success Program Administration CATEGORY DESCRIPTION STATE □ Technical/Field Solutions Program Administration Special Projects Team Grows State Agency Capacity in Indiana □ Workforce Development Expanding Weatherization Services Equitably in Minnesota Administration Workforce Staff Onboarding Efforts Support Inclusivity and State Colorado Development Retention in Colorado Workforce Leveraging Technology to Expand Training in New □ Alaska New Mexico Development □ Colorado Addressing Health and Safety Deferrals in Connecticut Connecticut Administration □ Connecticut Embedding Weatherization Training and Education in Illinois □ Georgia Development High Schools in Illinois

## **New Resource:** WAP Careers Slide Deck



### **Editable slide deck includes:**

- Introduction to weatherization and WAP.
- Overview of careers and career pathways.
- Optional activities.
- Instructions and speaker notes.



https://nascsp.org/workforce-resources-and-tools/



## **Thermal Imaging Demonstrations**

This document describes low-cost and simple activities that can be used by home energy and weatherization professionals and educators to help illustrate basic building science principles in an engaging way for students who are new to these concepts.

#### Introduction:

Thermal imaging, more commonly referred to as infrared scanning, is widely used in the weatherization and home performance industry to evaluate a variety of scenarios, including, but not limited to:

- Verifying insulation coverage
- Finding air or duct leaks
- Locating water leaks.

Infrared cameras are not X-ray vision; however, infrared cameras can allow us to "see" building anomalies when surface temperature differences are present within the camera's field of view. These temperature differences within the pixels of the infrared detector are converted



#### Use to:

 Teach students basic building science principles using thermography.

#### Materials:

- Plastic garbage bag
- · Water spritzer
- · Scrap piece of insulation

# Additional NREL WAP Workforce Resources

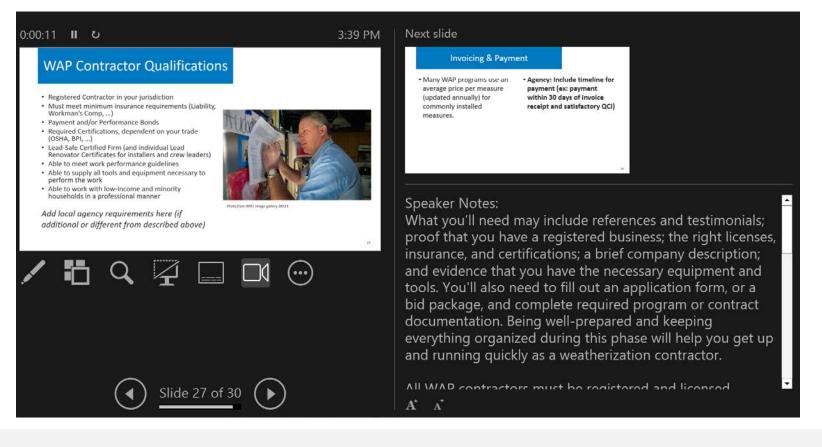
## NREL Workforce Resources: Outreach and Recruitment

- Workforce development toolkit.
- Contractor recruitment template.
- Upcoming:
  - Supporting NASCSP in updating the WAP wage survey analysis.
  - Developing a wage sensitivity calculator.
  - More contractor recruitment resources.

## WAP Contractor Recruitment Template Slides

#### Recommended for:

- Presenting to local contractor and business associations.
- Orientation for onboarding new contractors to your program.



- Customizable slide decks with speaker notes for contractor outreach, recruitment, and onboarding.
- Aligns with IREC's Contractor Guide to Success.
  - https://greenworkforceconnect.org/a-guide-to-success-forcontractors-new-to-the-weatherization-assistanceprogram/.
- Available for download in March.

# NREL Workforce Resources: Onboarding and Retention

- Installer Badges Toolkit and job aids.
- Visualization resources (<u>3D house</u> tools, <u>weatherization image gallery</u>).
- Free online administrative trainings.
- Upcoming:
  - Subgrantee Employee Onboarding Toolkit.

ENERGY Office of ENERGY EFFICIENCY & RENEWABLE ENERGY

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### Contención, sellado y aislamiento de escalera de ático abatible

Guía de trabajo para insignia de tratamiento de escotilla de ático

Cumple con las especificaciones normalizadas de trabajo 3.0103.1



Las escaleras desplegables pueden ser un punto débil en las barreras térmicas/ de presión, y también pueden permitir que el aislamiento caiga dentro de la casa si no se represan apropiadamente.



den Construya una cubierta por encima y alrededor de la escalera desplegable, más alta que la altura final del aislamiento.



Aísle la parte superior y los lados de la cubierta de la represa, de acuerdo con el valor R correspondiente. Utilice materiales que cumplan con los requisitos del código de seguridad contra incendios aplicable (p. ej., barreras térmicas o de ignición).



Selle contra fugas de aire los espacios en el armazón y los bordes de la moldura según sea necesario.



Selle contra fugas de aire con cinta de espuma de celda cerrada o burletes. Instale los pestillos necesarios para garantizar que la puerta de acceso se cierre herméticamente contra el burlete.



Las escaleras desplegables del ático deben estar selladas y aisladas de forma segura y duradera para evitar el movimiento del aire y reducir la transferencia de calor.

5-2 Contención, sellado y aislamiento de escalera de ático desplegable

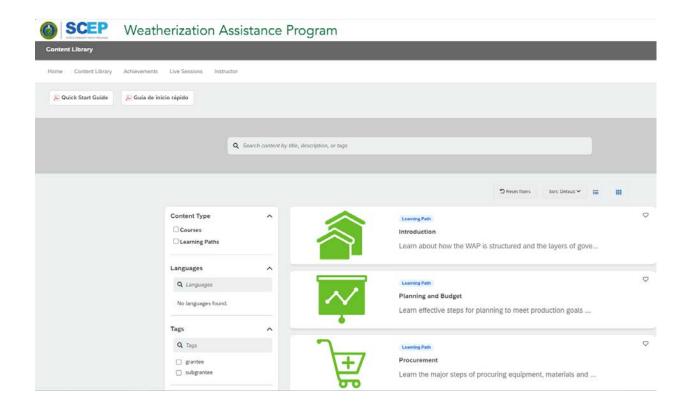
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### Installer Badges Platform

Due to network demand, NREL is building out the Retrofit Installer Badges in the WAP Learning Management System:

https://wap.litmos.com.

This will be available publicly in the spring of 2024.





## Questions?

www.nrel.gov

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