The graphic features a light blue background with a subtle grid pattern. On the left side, there are stylized white icons of wind turbines, a city skyline, and a car. At the bottom left, there are several overlapping circular icons with green and blue patterns. A horizontal bar at the bottom transitions from light green on the left to yellow on the right.

# Clean Energy Workforce Training Program

Chris Graillat  
Staff Lead

Workforce Development  
California Energy Commission

# Overview

- Program development
- Innovative partnerships
- Funding sources
- Target populations
- Program description



# Program Development

The background features a stylized illustration on the left side. It includes several white wind turbines of varying heights against a light blue sky. Below the turbines, there are white gears of different sizes, some containing blue and green patterns. A small white car is visible on a road that runs horizontally across the bottom of the scene. The bottom of the slide has a green-to-yellow gradient bar.

- Public workshops and stakeholder input
- Coordination and partnerships with traditional labor agencies

# Partnerships

- Employment Development Department
- Employment Training Panel
- California Workforce Investment Board
- Green Collar Jobs Council
  
- Community Colleges
- Local Workforce Investment Boards
- Area employers
- Labor unions
- Trade organizations
- Community organizations



# Funding Sources

- American Recovery and Reinvestment Act (ARRA) from the State Energy Program
- Workforce Investment Act, Governor's Discretionary 15 percent funds
- Assembly Bill 118 Alternative and Renewable Fuel and Vehicle Technology Program
- Public-private partnership matching funds

# Program Overview

- Training and education
- Labor market information development
- Regional clean energy industry cluster planning and implementation



# Target Populations

- Unemployed and underemployed workers, with a focus on construction workers
- New workforce entrants
- Automotive industry workers
- Incumbent workers
- Hard-to-reach populations



# Training Programs

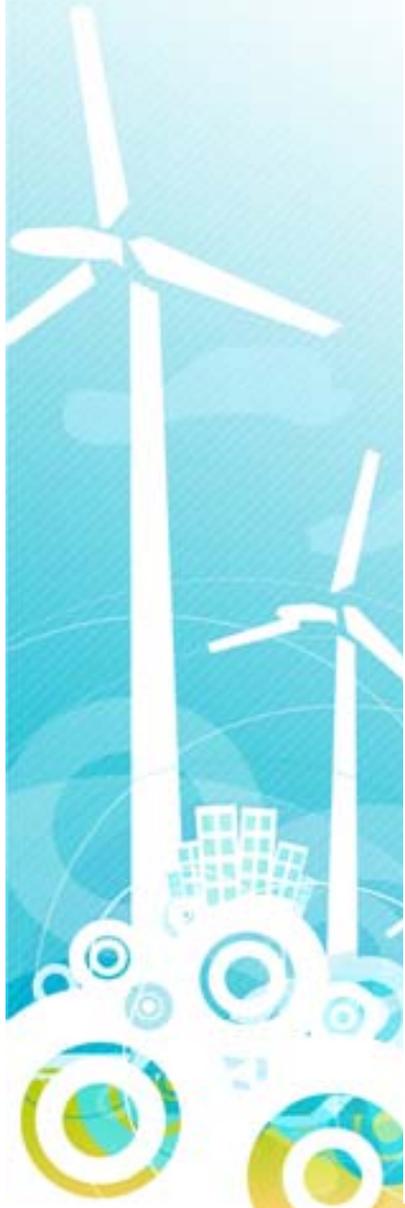
- 42 training grants awarded
  - 28 green building and clean energy partnerships
  - 6 clean transportation programs
  - 14 green building and clean energy programs



# Training and Education

- Energy and water efficiency
- Renewable energy, distributed generation and utility scale
- Renewable and alternative fuel and vehicle technology





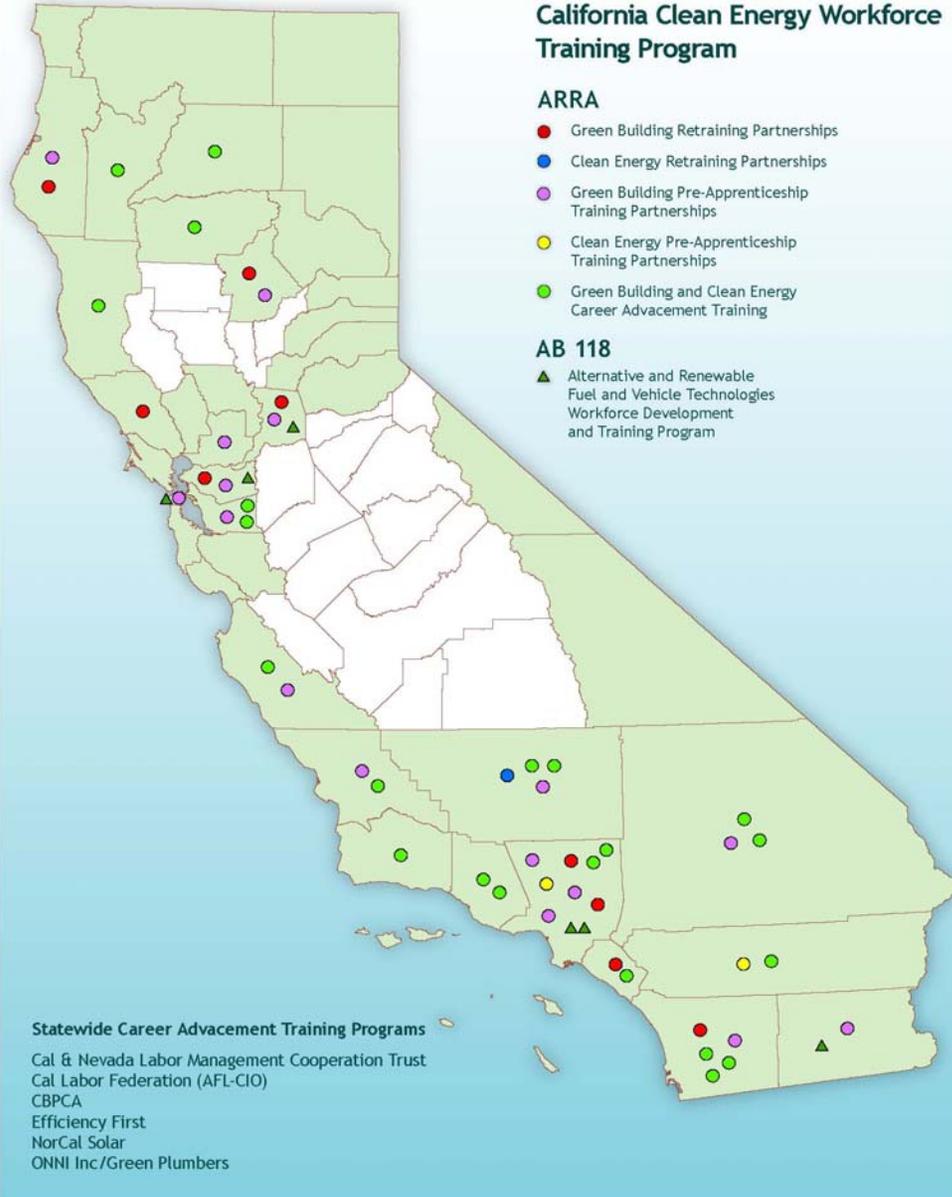
## California Clean Energy Workforce Training Program

### ARRA

- Green Building Retraining Partnerships
- Clean Energy Retraining Partnerships
- Green Building Pre-Apprenticeship Training Partnerships
- Clean Energy Pre-Apprenticeship Training Partnerships
- Green Building and Clean Energy Career Advancement Training

### AB 118

- ▲ Alternative and Renewable Fuel and Vehicle Technologies Workforce Development and Training Program



### Statewide Career Advancement Training Programs

- Cal & Nevada Labor Management Cooperation Trust
- Cal Labor Federation (AFL-CIO)
- CBPCA
- Efficiency First
- NorCal Solar
- ONNI Inc./Green Plumbers

# Training Program Funding Sources

- Unemployed, underemployed and new workforce entrants
  - ARRA/SEP \$15 million
  - WIA \$10 million
- Incumbent workers and new workforce entrants
  - ARRA/SEP \$ 5 million
- Up-skill training (all workers)
  - AB 118 \$9.2 million

# Water and Energy Efficiency Training

- Energy efficient retrofits/  
green building
- Building auditing  
Green plumbing
- HVAC installation
- Lighting control  
systems



# Distributed Generation and Utility-Scale Training

- Utility-scale thermal solar
- Rooftop photovoltaic system installation
- Wind turbine operations and maintenance
- Electrical distribution/line worker



# Alternative and Renewable Fuel and Vehicle Technology

- Alternative and renewable fuel and fuel feedstock production
- Alternative and renewable fuel storage and transport
- Low-emissions automotive computer systems
- Mass transit fleet conversion, servicing, and maintenance





A well-trained workforce is critical to

- attracting clean energy sector investment
- advancing policies for a clean energy future
- building a clean energy economy

The background features a stylized illustration of wind turbines on the left side, with a city skyline and a car below them. The bottom of the image is decorated with several interlocking gears. The overall color palette is light blue and green, suggesting a clean, sustainable theme.

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