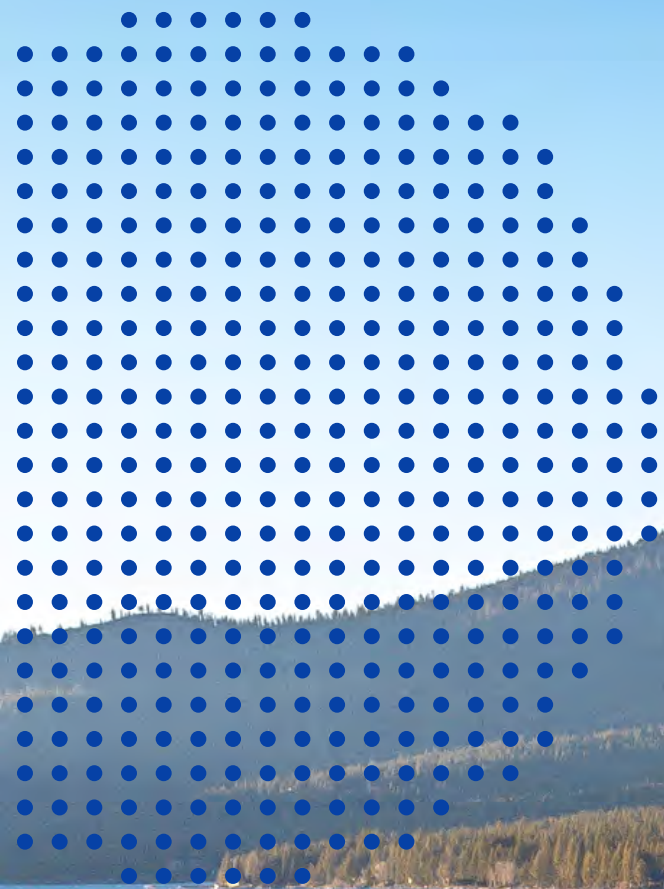


California Climate & Energy Forum 2023



Rural Building Decarbonization Readiness
and Resiliency:
Vulnerabilities, Solutions, Barriers and Successes



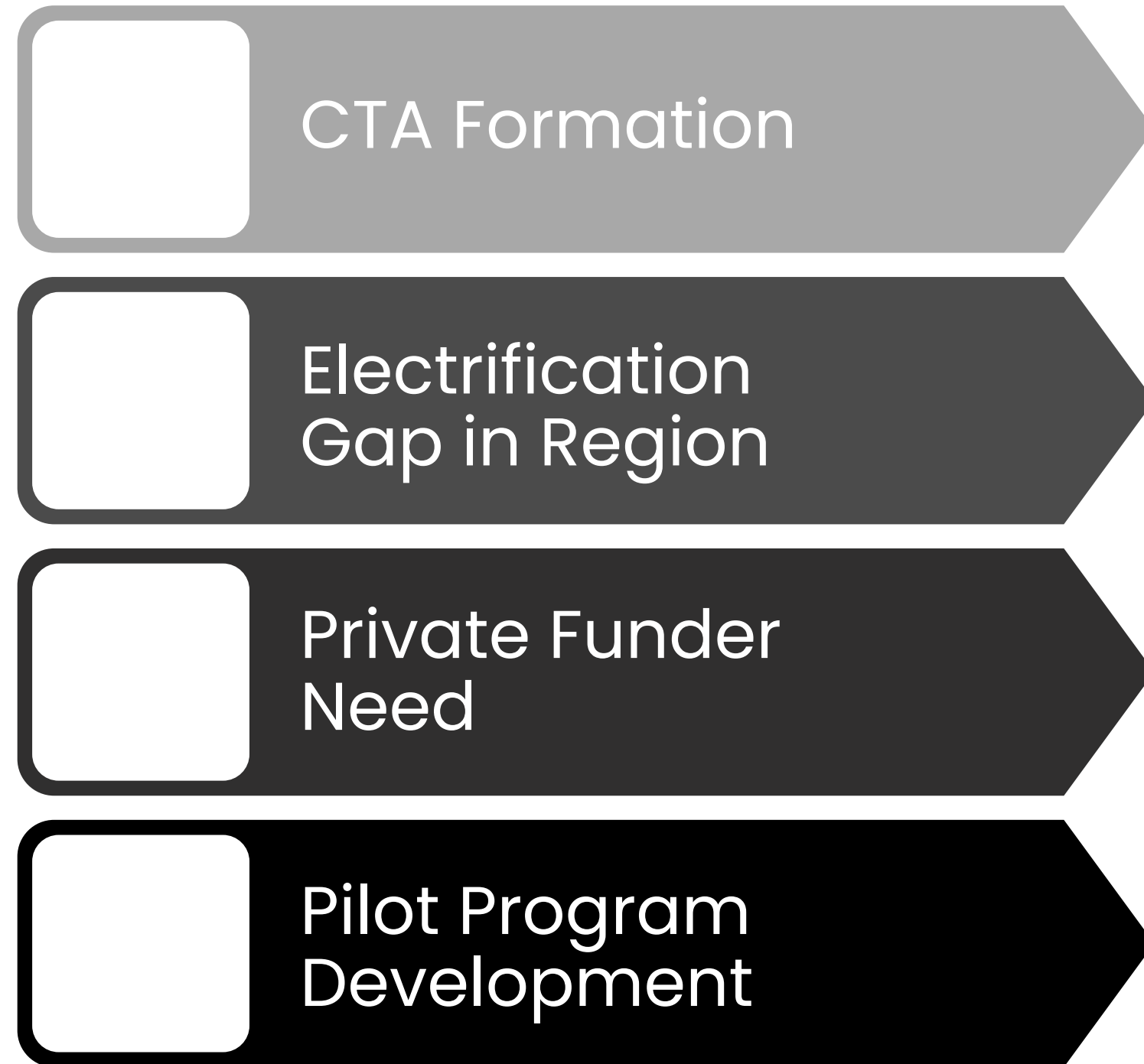
Truckee Tahoe Building Decarbonization Pilot Program

California Climate & Energy Forum 2023

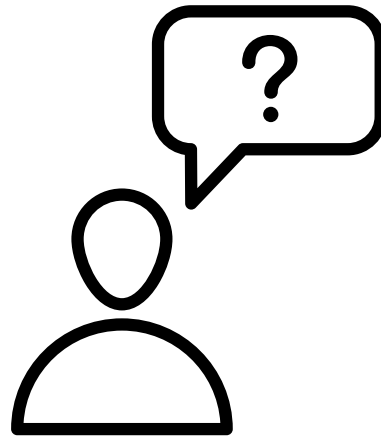
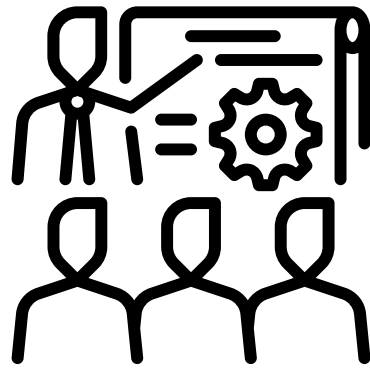
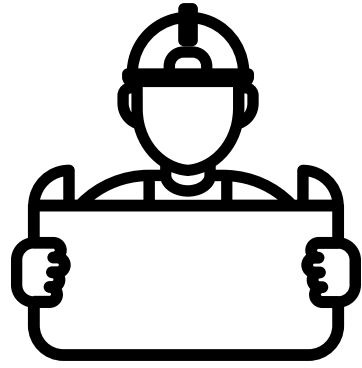
Rural Building Decarbonization Readiness and Resiliency: Vulnerabilities, Solutions, Barriers and Successes Session



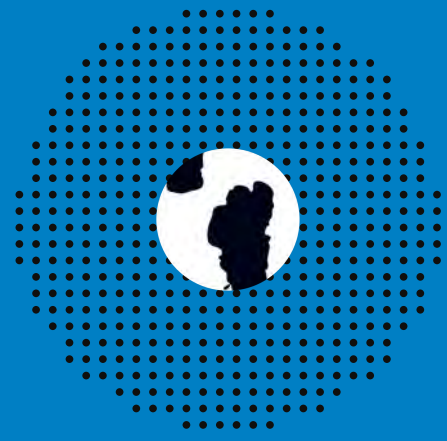
Program Evolution



BARRIERS

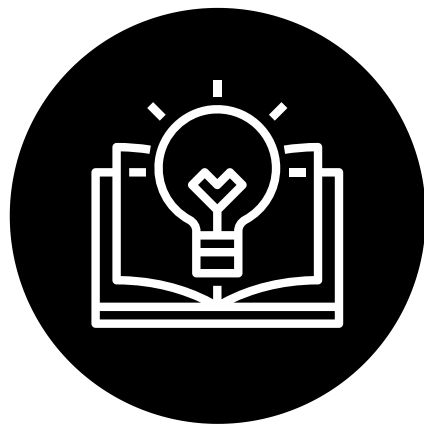


SOLUTIONS

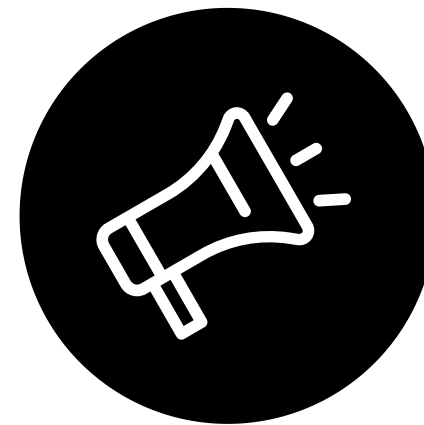


Truckee Tahoe Building Decarbonization Pilot Program

Program Breakdown



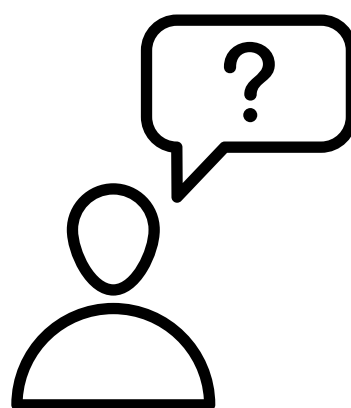
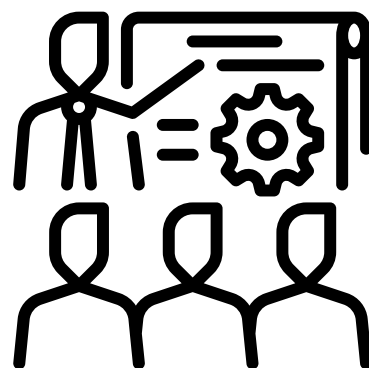
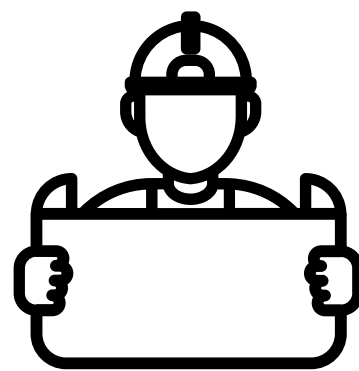
Workforce Education
and Training



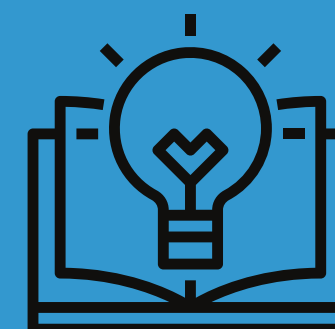
Public Outreach



One-Stop Shop
Coaching Service



BARRIERS



SOLUTIONS



Rural Building Decarbonization Readiness and Resiliency:

Vulnerabilities, Solutions, Barriers and Successes

Amaury Berteaud, Sustainability Program Manager, AMBAG



AMBAG's Role

- AMBAG is the Metropolitan Planning Organization for Monterey, San Benito, and Santa Cruz Counties, and the Council of Governments for Monterey and Santa Cruz Counties
- AMBAG creates the Metropolitan Transportation Plan and Sustainability Communities Strategy (MTP/SCS) every four years
- The SCS links transportation, housing, and land use to enhance sustainable mobility and reduce per-capita transportation GHG emissions



AMBAG Sustainability Program

- A little bit of everything, all of the time!
- Implementing initiatives throughout the region to build capacity for communities to reduce GHG emissions and build resiliency to climate change
- This ranges from creating local GHG inventories, to energy efficiency programing, Zero Emissions Vehicle planning and deployment, and Natural and Working Lands Climate mitigation and adaptation planning

AMBAG's Theory of Success

- Build regional structure for collaboration, that break down silos, and center underserved communities
- Obtain funding for innovative solutions that would build local staff capacity and be replicable or scalable across the state
- Work with partners to implement projects at the scale that is needed to meet the challenge of climate change



AMBAG Early Successes

- Implemented a regional approach to the proposition 39 program, with a focus on serving all school districts at no cost, including the smallest school district in the state.
- Worked with partners to obtain a number of grants, ranging from building decarbonization, to shared mobility, and ZEV planning
- Working with partners to create a library of collaborative project concepts that can be deployed to multiple grant opportunities

AMBAG Key Takeaways

- Collaboration is hard, but in a rural context, it is necessary to be competitive.
- Outcomes for collaborative projects are more positive, have a broader impact, and are more replicated than projects led by a single agency.
- A rising tide lifts all boats! Local leaders in the region continue raising the bar on innovative projects, but the collaborative projects ensure all jurisdictions and partners can have positive outcomes.



REDWOOD COAST
Energy Authority

Rural Building Decarbonization Readiness and Resiliency: Vulnerabilities, Solutions, Barriers and Successes

California Climate and Energy Forum

June 14

Redwood Coast Energy Authority
Stephen Kullmann

Director, Demand Side Management





REDWOOD COAST
Energy Authority

RCEA – Humboldt County

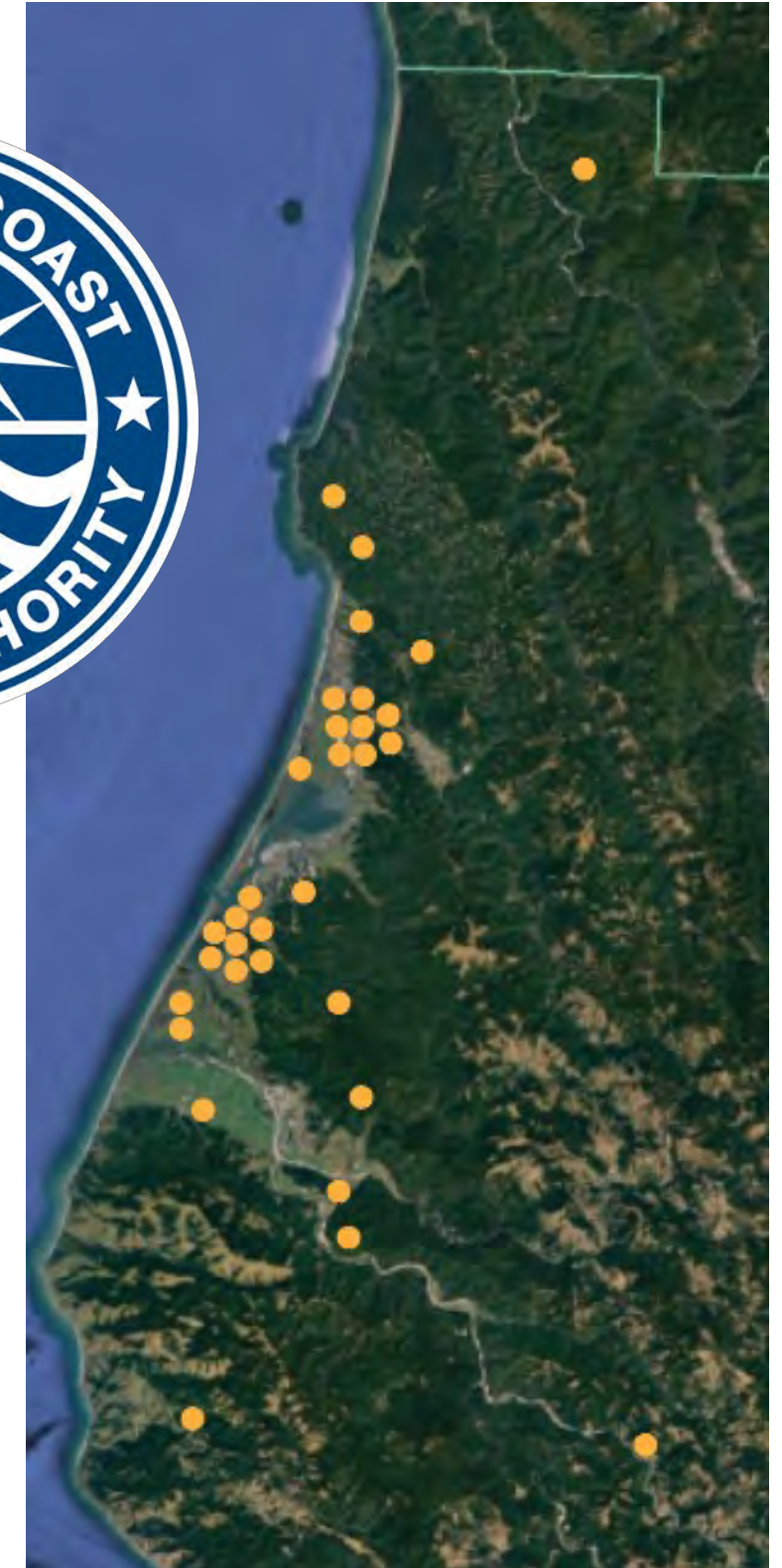
- Located in the Northwestern corner of CA
- “Behind the Redwood Curtain”
 - Geographically distant from third party services
- 20th anniversary as JPA Energy Services Provider
 - Board now includes 2 Federally Recognized Tribes
- 5th anniversary as Community Choice Aggregator
- Program Administrator of newly forming RuralREN



Successes in Addressing Rural Resiliency

RCEA –

- Able to piece together multiple funding sources to serve customers
- Local CCA funds, CPUC EE Funds, LPG, CEC, Federal, Prop 39, loans and competitive grants
- Leader in local resilience projects
- Public Agency Energy Partnerships





Redwood Coast Airport Microgrid

RCEA's first collaborative, multi-partner microgrid is living up to its expectations as earthquakes, severe weather, and power outages continue to challenge Humboldt County's electrical grid.

- May 2023 Awards:
 - California Community Choice Association's - **Impact Award for Reliability**
 - Microgrid Knowledge - **Greater Good Award for Resilience**





City of Rio Dell

- RCEA helped the City of Rio Dell apply for a solar, battery storage, and emergency generator from the California Office of Emergency Services.
- The system kept city facilities up and running after a major earthquake hit the Rio Dell area on December 20, 2022.



Rural CA Implementation

It's not easy

- Sparsely populated and geographically hard to reach
- Resource and product limitations
- Capacity constrained

Drivers do exist

- Local stakeholder support
- Equitable incentives
- Turn-key services when needed





Rural is not something you know, or visit,
rural is a lived experience



What works



Be mindful and courteous of the rural experience



Find and engage local support/stakeholders



Provide equitable incentives



Use turn-key services when needed



Empower rural stakeholders to make decisions for rural communities