

REACH Inland Empire

Thursday, December 5, 2024
Morongo Conference Center

Presented by:



CALIFORNIA
STRATEGIC
GROWTH
COUNCIL

Sponsored by: _____

Thank you for coming!

Please register, grab coffee, interact with posters, and network.

We'll begin shortly.





Welcome!

Welcome to the first regional convening of the State & Local Energy and Climate Coordination (SLECC)!

PURPOSE

A streamlined and sustained communication and coordination hub to help regional and state leaders to work together more closely to elevate and catalyze place-based energy, climate, and land use progress and effectively leverage resources and investments where needed.

REACH = Regional Energy and Climate Hubs

TODAY'S AGENDA

- **Welcome and introduction**
- **Panel discussion & activity:** *Characterizing energy, land use, and climate landscape in the Inland region*
- **State-led Knowledge Exchange**
Breakouts: efficiently help inform the following State policies, plans or programs
- **Region-led Knowledge Exchange**
Breakouts: regional stakeholders share solutions on key topics
- **Lunch (provided)**
- **Key Discussion:** *Streamlining and Improving Engagement, Technical Assistance and Funding to Communities*
- **Assistance Lounge and Networking Reception**



Welcome!

Registrants

- ❖ **49:** Local or Regional Governments
- ❖ **40:** Nonprofits
- ❖ **34:** State Agencies
- ❖ **6:** Tribes
- ❖ **4:** Academia
- ❖ **3:** State Senate Representatives
- ❖ **1:** Congressional Representative

+ **17** Assistance Providers



Panel Discussion

Characterizing energy, land use, and climate landscape in the Inland region



Director of Energy & Environmental Programs
Western Riverside Council of Governments

Casey Dailey



Realty/Planning Administrator
Morongo Band of Mission Indians

Karen Woodard



Inland Regional Energy Network

Who We Are

We are a network of partners, including the Coachella Valley Association of Governments, the San Bernardino Council of Governments, and the Western Riverside Council of Governments, formed to serve the cities and communities of our region.



Your Local Champion for Energy Efficiency

Our mission is to build a stronger clean energy economy and community throughout California's Inland Empire by connecting residents, businesses, and local governments to a wide range of energy efficiency resources.

Together, we empower local governments to practice energy efficiency, enable code compliance in the building industry, and support workforce education and training in our region.

Our Programs



**Public Sector
Program**



**Workforce Education &
Training Program**



**Codes & Standards
Program**

Goals

1. **Public Sector:** Build capacity and knowledge to enable local governments to effectively leverage energy efficiency services and to demonstrate best practices.
2. **Workforce Education & Training:** Ensure there is a trained workforce to support and realize energy efficiency savings goals across sectors.
3. **Codes & Standards:** Work closely with local building departments and the building industry to support, train, and enable long-term streamlining of energy code compliance.

Stay Up to Date with I-REN!

Visit [iren.gov](https://www.iren.gov)

LinkedIn: Inland Regional Energy Network

Facebook: InlandREN

Instagram: @InlandREN



Join the I-REN Mailing List





Visit iren.gov to learn more.





Activity & Mingle

What we learned from pre-convening survey... please add detail to posters!

| Topic | I need this | I offer this |
|--|-------------|--------------|
| Energy efficiency, electrification (public sector) | 24 | 25 |
| Energy efficiency, electrification (res/commercial sector) | 15 | 20 |
| Renewable energy, storage and energy resilience (public sector) | 23 | 26 |
| Renewable energy, storage and energy resilience (res/commercial sector) | 14 | 20 |
| Electric vehicle and charging stations (public sector) | 21 | 27 |
| Electric vehicles and charging stations (res/commercial sector) | 10 | 17 |
| Utility capacity and grid management | 20 | 7 |
| Sustainable development, housing, and transportation planning and land use | 23 | 20 |
| Climate and/or energy action planning | 27 | 29 |
| Affordable housing, smart growth, planning and land use | 23 | 22 |
| Sustainable agriculture | 15 | 13 |
| Organizational development and grant writing | 31 | 15 |
| Climate adaptation and resilience planning | 32 | 29 |
| Climate adaptation and resilience implementation | 29 | 23 |



Activity & Mingle

What we learned from pre-convening survey

At your table, select a notetaker, and help us fill in the table. Circle your group's top priority, asset and challenge.

| | PRIORITIES | CHALLENGES | ASSETS |
|----------|--|--|--|
| Energy | <ul style="list-style-type: none"> Building decarbonization, energy efficiency, and electrification (municipal and residential) Local renewable energy transition and expansion (public and private) Transportation decarbonization, fleet electrification, VMT, and EV infrastructure Grid resiliency, utility service, and safety Energy resilience Clean energy equity and accessibility for low-mid income and underserved populations Affordable energy and cost savings High paying energy jobs and workforce dev | <ul style="list-style-type: none"> Access to adequate funding (grants and incentives), especially federal Aging energy infrastructure (capacity), outages, and integrating energy storage and grid mod. High costs impact low-income & DAC Regulatory and permitting hurdles for renewable energy project Limited community awareness of resources and workforce opportunities Project coordination across organizations Lack of dedicated staff capacity to meet energy policy goals, low to med priority Consumption data access and accuracy | <ul style="list-style-type: none"> Solar potential IREN and utility resources and assistance Municipal electric utilities in multiple cities Active renewable energy initiatives Established infrastructure for research and innovation Fleet conversion underway in some cities |
| Climate | <ul style="list-style-type: none"> Reduction of GHG emissions to meet targets, especially in vehicles, trucking and logistics Extreme heat, severe storms, and wildfire impacts Air quality Tree planting and replacement Produce climate action plans Collaborate and leverage region's climate planning and programming efforts Climate resilience and adaptation strategy implementation, especially for vulnerable populations Increase public engagement and awareness, especially in clean transportation and VMT Design for sustainability | <ul style="list-style-type: none"> Access to adequate funding (grants and incentives), especially federal Some climate action plans exist, but many not achieving results or going too slow Equitable benefits across diverse communities Warehouse industry exacerbating climate impacts Urban heat islands Water conservation Disproportionate climate impacts on DACs Lack of dedicated staff capacity to meet climate policy goals, low to med priority Community buy-in Variable climate and geography across subregions make blanket solutions difficult | <ul style="list-style-type: none"> Local partnerships (SCAG, WRCOG, ISC3, UCR) Local CAPs Geographic advantage for renewable energy source Local tree canopy of ~16,000 trees |
| Land Use | <ul style="list-style-type: none"> Smart growth, sprawl, sustainable land management policies that align with energy and climate goals Urban greening Align planning and zoning with climate and transportation strategies Repurpose land for affordable mixed-use dev Sustainable and affordable residential and commercial development (growing housing needs) Smart agriculture Land back Equitable access to energy infr. and public transit Address proliferation of warehouses | <ul style="list-style-type: none"> Access to adequate funding (grants and incentives), especially federal Housing affordability crisis Interdepartmental collaboration Rapid urbanization and gentrification concern Competing land use demands, e.g. ag, open space, housing, logistics Not enough diversity in land uses Lack of dedicated staff capacity to meet land use policy goals DACs not included in major decisions Lack of infrastructure funding to support sustainable growth Community outreach | <ul style="list-style-type: none"> Region's open areas and natural spaces Under utilized urban spaces Partnerships with local agencies, Tribal governments, agricultural centers and and CBOs Comprehensive plans with sustainable growth policies Growing emphasis on mixed-use and transit oriented development |



State-led Knowledge Sharing



Agencies and engagement opportunities



Strategic Growth Council

We provide community climate investments to projects that promote sustainability, equity, economic prosperity, and higher quality of life for all Californians.

Engagement Opportunities

Open RFI: Streamline Infill Housing Development

- **Deadline:** Dec. 31, 2024
- **About:** Seeking input on processes, permits, and other administrative actions that can be adjusted to create more flexibility and lower costs of infill housing.

Guidelines Workshop: Round 9 of Affordable Housing Sustainable Communities Grant

- **Date:** Monday, Dec. 9th, 2024
- **Time:** 9:30AM - 11:30AM
- **Location:** San Bernardino County Transportation Authority

Virtual Workshop: Shape 2025 Regional Roundtables with LCI & SGC

- **Date:** Friday, December 13, 2024
- **Time:** 10:30AM - 12:30PM
- **About:** You and regional stakeholders across the state will help inform the 2025 roundtable structure, format, and topics



Agencies and engagement opportunities

Office of Land Use and Climate Innovation



CA Governor's Office of
Land Use and
Climate Innovation

We strive to shift from exploitative economies, built environments, and policies to ones that are beneficial to all people and the planet.

Engagement Opportunities

- CA Fifth Climate Change Assessment Regional Engagement Events
- Climate Services Help Desk
- General Plan Guidelines Update
 - Climate Action Plan TA
 - SB 1425 Open Space TA
 - Downtown Revitalization TA



State agencies & engagement opportunities

Business, Consumer Services and Housing Agency (BCSH)

BCSH funds and facilitates the preservation and expansion of safe, affordable housing; advances statewide collaborative efforts to prevent and end homelessness; licenses and regulates over 4 million professionals, businesses, and financial services; and safeguards and enforces California's civil rights laws.





Agencies and engagement opportunities

Housing & Community Development



HCD's mission is to promote safe and affordable homes in vibrant, inclusive, and sustainable communities for all Californians. The Department deploys billions to plan for, develop, and preserve housing at all affordability levels and implements state housing law through technical assistance, funding, and enforcement.

Engagement Opportunities

- Supporting implementation of EO-N-2-24 on infill housing and adaptive reuse.
- Provide technical assistance and funding to regions and local governments to support planning for future housing.
- Leverage excess state sites and locally owned surplus lands for affordable housing.



Agencies and engagement opportunities

CA Air Resource Board



CARB protects the public from the harmful effects of air pollution and developing programs and actions to fight climate change.

Engagement Opportunities

The California Air Resources Board is leading the development of a Comprehensive Climate Action Plan under the U.S. EPA's Climate Pollution Reduction Grants program. There will be key opportunities to provide input and review the draft over the next year. For now, we invite all interested parties to fill out our [California Climate Action Survey](#).



Agencies and engagement opportunities

California Public Utilities Commission



CPUC regulates privately owned electric, natural gas, telecommunications, water, railroad, rail transit, and passenger transportation companies, ensuring that consumers have safe, reliable utility service at reasonable rates, protecting against fraud, and promoting the health of California's economy.

Engagement Opportunities

- Data Working Group
- Distribution Planning with IOUs
- Disconnections Proceeding (Phase 2 Scoping Workshop 12/12)



Agencies and engagement opportunities

GO-Biz

Governor's Office of Economic & Business Development serves as the state's leader for job growth, economic development and business assistance efforts

Engagement Opportunities

- Energy Project Permitting Guidebook & Toolkit
- Business attraction, retention and expansion services
- Small business assistance
- International Trade



Agencies and engagement opportunities

California Energy Commission



State's primary energy policy and planning agency. The CEC also provides to projects that promote sustainability, equity, economic prosperity, and higher quality of life for all Californians.

Engagement Opportunities

- [Draft Integrated Energy Policy Report \(IEPR\)](#) comments due December 12
- Upcoming
 - HEEHRA Phase II Design
 - SB 100
 - Energy Equity Indicators



Agencies and engagement opportunities

State Treasurer's Office

<Insert what you do>

Engagement Opportunities

<Insert active or pending engagement opportunities with links. Highlight what will be discussed in a breakout>



State-led Knowledge Exchange

Introducing Breakouts

- **Owl: Aligning State and Regional Goals at the Nexus of Housing and Climate**
 - Speakers: Strategic Growth Council; Department of Housing & Community Development; Business, Consumer Services and Housing Agency
- **Flicker: State Climate Assessment and Resilience Resources**
 - Speakers: Office of Land Use and Climate Innovation; Strategic Growth Council
- **Hummingbird: Climate Action Planning at the State and Local Level**
 - Speakers: Air Resources Board; Office of Land Use and Climate Innovation
- **Hawk: Regional Challenges to Renewable Energy Deployment**
 - Speakers: GO-Biz; Public Utilities Commission, Office of Land Use and Climate Innovation



State-led Knowledge Exchange

“Aligning State and Regional Goals at the Nexus of Housing and Climate”

Strategic Growth Council - Sean Kennedy (Lead)

Housing and Community Development - Clay Kerchhof

Business, Community Services, and Housing - Tawny Macedo

Office of Land Use and Climate Innovation - Aaron

Description:

On July 31, 2024, Governor Newsom issued a new executive order (N-2-24) to accelerate and streamline infill development projects to transform undeveloped and underutilized properties statewide into livable and affordable housing for Californians. This session seeks to gather input from Tribes, local and regional governments, and advocacy organizations on processes, permits, and other administrative actions that can be adjusted to create flexibility and lower the per-unit cost of infill housing.

REACH IE Breakout: Aligning State and Regional Goals at the Nexus of Housing and Climate



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CA Governor's Office of
**Land Use and
Climate Innovation**



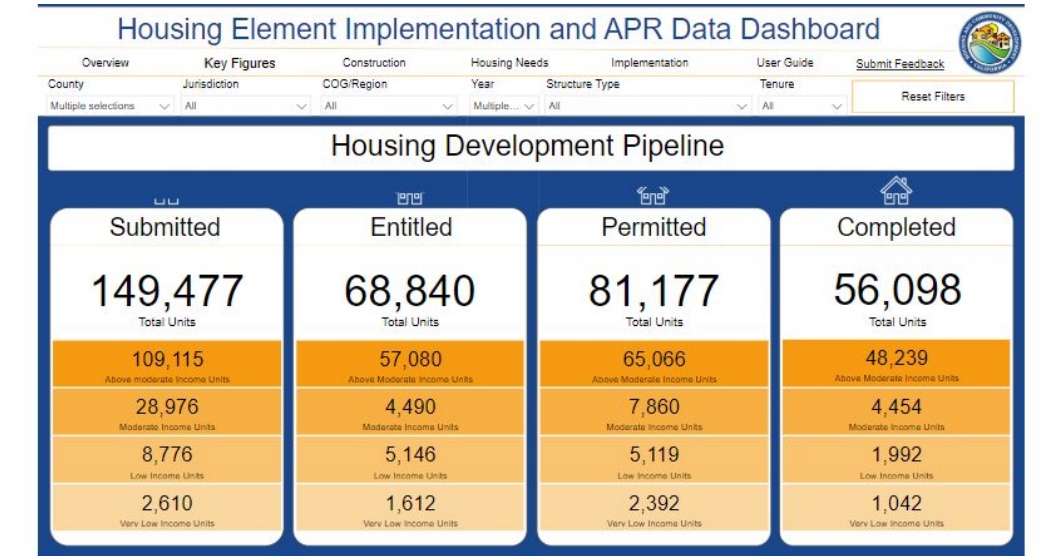
Overview and objectives

1. California State vision for housing and climate
2. Overview of current State efforts and relevant agencies
3. Understand needs, challenges, and opportunities at the nexus of housing and climate in the region

Supporting Housing for All Californians

The State implements state housing policy through technical assistance, enforcements, and funding. Strategies to promote housing production and affordability:

- Increased housing needs allocations
- Removing barriers and streamlining requirements
- Planning incentives and enforcement
- Local surplus lands and excess state sites
- Grants and funding



Prohousing Strategies

Prohousing policies at the local level are needed to facilitate accelerated affordable and infill housing opportunity.

- Create favorable zoning and land use policies
- Accelerate housing production timeframes
- Reduce construction and development costs
- Provide financial subsidies or free waivers
- Align land use, climate, and transportation policies



Executive Order N-2-24 on Infill Housing and Adaptive Reuse

Lowering Costs and
Increasing Options for
Infill Housing

Providing More
Resources for Infill
Housing and Adaptive
Reuse

Providing Tools and
Opportunities for Infill
and Adaptive Reuse

Aligning Infill
Development with
State Climate Policies



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California Strategic Growth Council

Programs and Initiatives



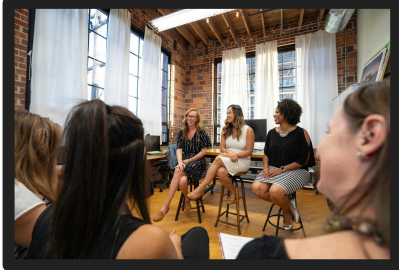
Investment Programs



Collaborative Policy Initiatives



Integrated Policy and Planning



Capacity Building and Technical Assistance

SGC Council Priority 3: Housing, Climate & Equity

- Resolution adopted in December 2022
- Whole-of-Council commitment to accelerate progress toward the State's housing, climate, and equity goals.
 1. Better utilize existing resources
 2. Identify new tools and strategies
 3. Improve coordination between State, local, federal, and Tribal partners



LCI Goals



CA Governor's Office of
**Land Use and
Climate Innovation**

As the State's Comprehensive Planning Agency, LCI studies future research and planning needs, fosters goal-driven collaboration, and delivers guidance to state partners and local communities, with a focus on land use and community development, climate risk and resilience, and economic development.

LCI creates general plan guidelines, technical advisories, best practices and plan alignment toolkits for general plans.

Current projects:

- General Plan Guidelines Update
- Mainstreet/Downtown Technical Advisory document related to EO N-2-24 directive



Breakout discussion

1. Describe the relationship between housing and climate needs and goals in your region.
2. What are the challenges with preserving and retrofitting existing housing, or building new housing, in ways that align with your climate goals?
3. What opportunities do you see to simultaneously meet your region's housing and climate goals?

Further opportunities for engagement

[Request for Information to Streamline Infill Housing Development](#)

- Response to EO N-2-24 on Infill and Adaptive Reuse
- The RFI seeks public input on potential processes, permits, and other administrative actions that can be adjusted to create more flexibility and lower costs of infill housing.
- SGC encourages responses from a wide range of individuals:
 - researchers, practitioners, developers, financial institutions, community-based organizations, advocacy groups, tribes, and others with experience or expertise in infill development or adaptive reuse.
- Responses due December 31, 2024



State-led Knowledge Exchange

“California Climate Assessment and Resilience Resources”

Office of Land Use and Climate Innovation (LCI) - Elea, Ben McMahan and Bryce
Strategic Growth Council (SGC) - Sarah Newsham and Jessica Cervantes

Description:

This session will provide an overview of the Integrated Climate Adaptation and Resiliency Program climate resilience research portfolio and tools, and funding programs including future opportunities through the 2024 Climate Bond. Presentations will include updates on California’s Fifth Climate Change Assessment research portfolio, featuring the Tribal Research Program and examples from the Inland Desert Regional Synthesis Report Author Team; an overview of climate services tools and data resources to support planning and decision-making; and a presentation on SGC’s Community Resilience Centers and Transformative Climate Communities Programs. The teams welcome open discussion and Q&A

State-Led Knowledge Exchange: Guiding Principles

Goals:

- Share updates on State research, climate services and funding opportunities
- Present upcoming community engagement opportunities
- Discuss connections between State and Local actions, and opportunities to enhance collaboration

Questions to keep in mind:

- How can the State best support your community's access to information and funding?
- What opportunities do you see for collaboration?
- What else would you like us to know?



CALIFORNIA'S FIFTH
CLIMATE CHANGE
ASSESSMENT

CA Climate Change Assessment

December 5th, 2024



CA Governor's Office of
Land Use and
Climate Innovation



CALIFORNIA
NATURAL
RESOURCES
AGENCY



CALIFORNIA
STRATEGIC
GROWTH
COUNCIL

What are the California Climate Change Assessments?

California's Climate Assessment is a multi-year research effort with government, academic, tribal, and community partners to generate new data, original research, and syntheses on the ways climate change impacts California's diverse communities.



CALIFORNIA'S
CLIMATE CHANGE
ASSESSMENT



CA Governor's Office of
**Land Use and
Climate Innovation**



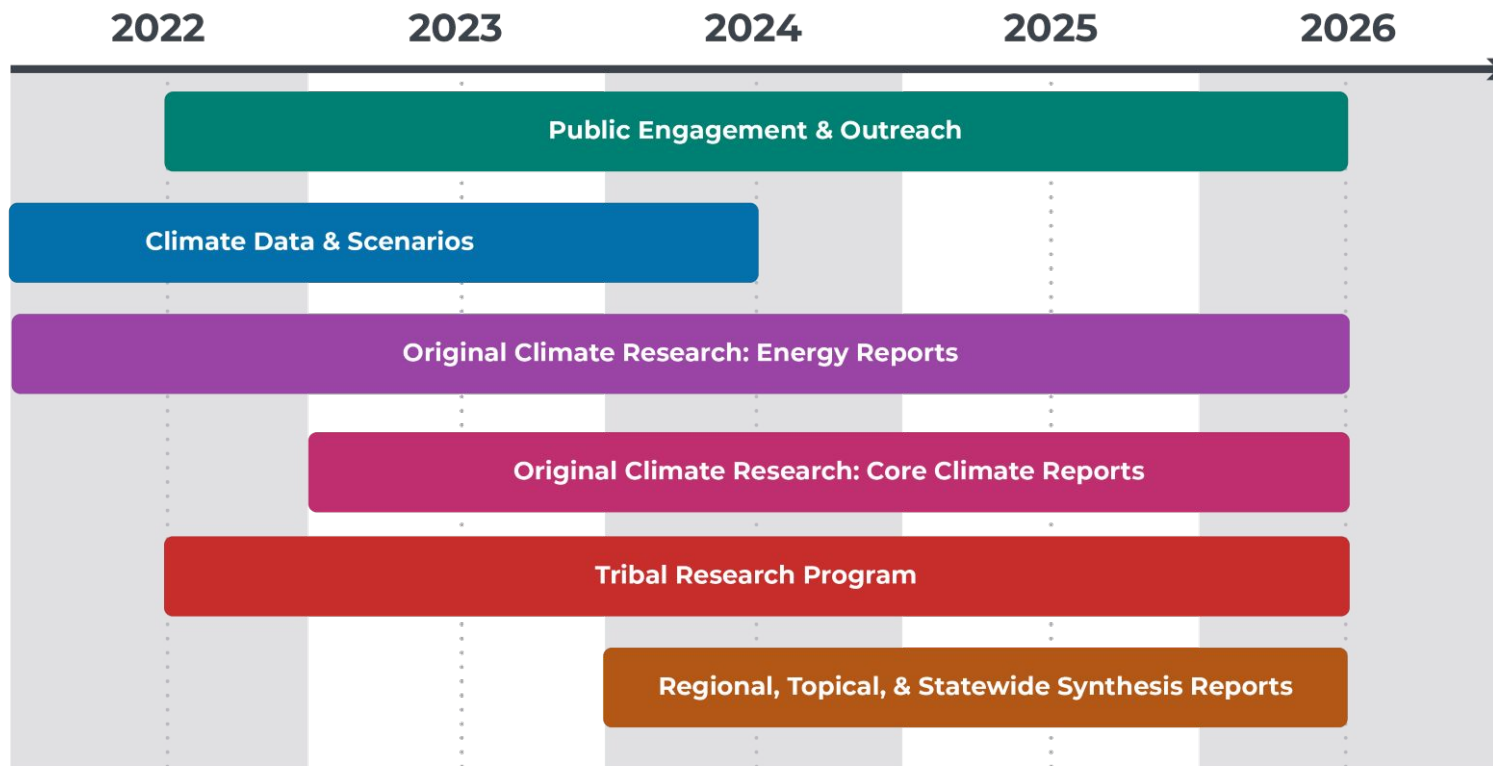
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Timeline



CALIFORNIA'S FIFTH
CLIMATE CHANGE
ASSESSMENT





GOALS

- Support a community-led process
- Produce actionable science & resources
- Implement a consistent framework across regions
- Synthesize statewide climate issues & uplift local priorities





- **Engage, consult, and partner** with Tribal Communities
- Establish a **Tribal Advisory Group**
- Support tribally-led research through a **Tribal Grant Program**
- Develop a **Tribal Synthesis Report**
- Develop **Tribally led Guidance** on Collaboration and Protection of Indigenous Knowledge and Tribal Expertise

Tribal Advisory Group



CALIFORNIA'S FIFTH
CLIMATE CHANGE
ASSESSMENT

Program Goal:
Establish a Tribal Advisory
Group to ensure
collaboration on
Indigenous knowledge and
tribal expertise



**Tiana
Williams-Clause**
n, Wildlife
Director, Yurok
Tribe



Raymond Gutierrez,
Eco-Cultural
Ecologist, Wuksachi
Indian Tribe

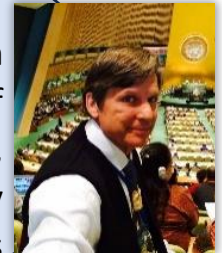
Connor Magee,
Research and Data
Application
Manager-Climate
Science Alliance, Pala
Band of Mission
Indians



**Christina
McDonald,**
Secretary, North
Fork Rancheria of
Mono Indians



**William "Yaan Yaan
Eesh" Micklin,** Chief
Executive Officer,
Ewiiapaayp of Kumeyaay
Indians



Michael Shaver,
Water Resources
Director, Potter
Valley Tribe



Dean Tonenna, VP Mono
Lake Kootzaduka'a Indian
Community Cultural
Preservation Association



Tribal and Indigenous Communities Report (4th Assessment)



CALIFORNIA'S FIFTH
CLIMATE CHANGE
ASSESSMENT



“This report is the beginning of something truly innovative: **a mutual invitation between tribes and the state to share learning with an urgent focus on climate action, incorporating traditional knowledges and practices.** This synthesis is the starting point of a new productive climate conversation between tribes and the state”

– page 10 of CA Fourth Climate Assessment Tribal and Indigenous Communities Report (2018)

Thank you!



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CLIMATE CHANGE
ASSESSMENT

Email us: climateassessment@opr.ca.gov

*Visit our
website*



*Sign up for
our email list*



*Check out our
new video*





California Climate Change Assessment: Inland Desert Region

Ryan Sendejas

Where Are the
**INLAND
DESERTS?**

**Western Riverside
Imperial
Coachella
San Bernardino
Lower Sierra**



Q4 2024: Project Startup & Initial Engagement Activities

1. Project Start-Up and Author Team Establishment (October)

- Establish author team and advisory groups.**
- Finalize project scope and initiate engagement plan.**

2. Establish Partnerships and Advisory Groups (November)

- Initiate meetings, ensuring representation of Indigenous tribe(s) and two CBOs.**

3. Engagement Plan Development (November - December)

- Develop a comprehensive Engagement Plan.**

4. Website and Communication Channel Launch (December)

- Launch project's interactive digital platform.**

Q1 2025: Community Engagement & Initial Research Drafting

- 1. Community Engagement Activities (January)**
 - Conduct workshops in areas like Coachella Valley and the Salton Sea region.
- 2. Initial Drafting of Report Materials (February)**
 - Begin drafting report based on community input and scientific research.
- 3. Key Informant Interviews (February - March)**
 - Conduct listening tours and interviews with Indigenous communities.
- 4. Feedback Synthesis (March)**
 - Synthesize feedback for inclusion in the draft report.

WEBSITE!



SHAPE THE FUTURE OF CALIFORNIA'S DESERTS

JOIN OUR CLIMATE CHANGE ASSESSMENT TEAM!

We are seeking authors contributors and advisors to help develop the Fifth California Climate Change Assessment: Inland Deserts regional report. This report will support and provide as a guide to climate policy, planning, and action.

Looking For Professionals in:

- *Environmental Sciences*
- *Policy & Planning*
- *Public Health & Community*
- *Individuals committed to climate action and resiliency.*

Collaboration Between



Learn more at:

Email: ccainlanddesert@gmail.com



Integrated Climate Adaptation and Resiliency Program (ICARP)

Climate Services

Ben McMahan

ben.mcmahan@opr.ca.gov

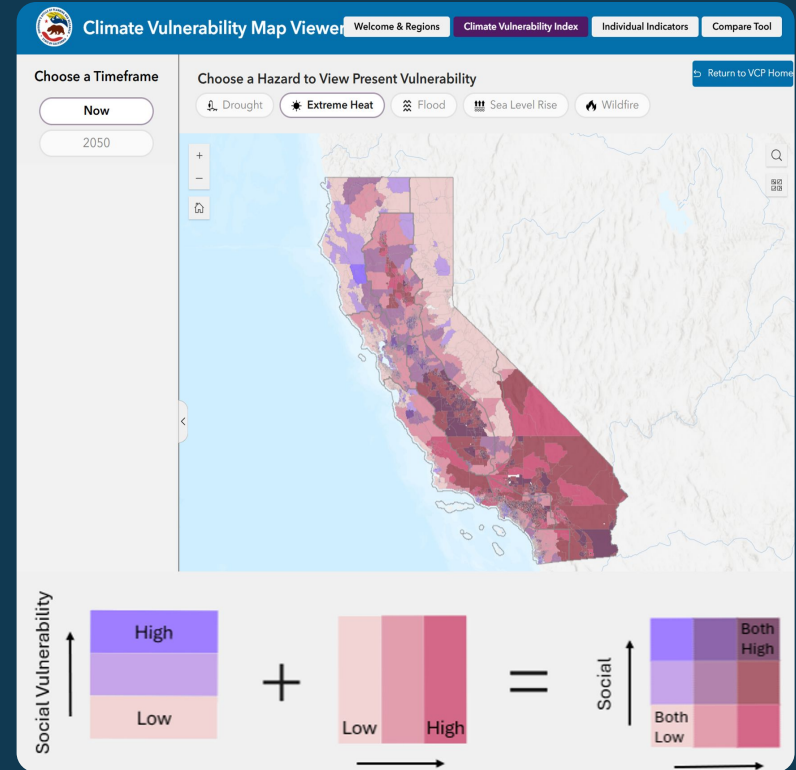


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Vulnerable Communities Platform (VCP)

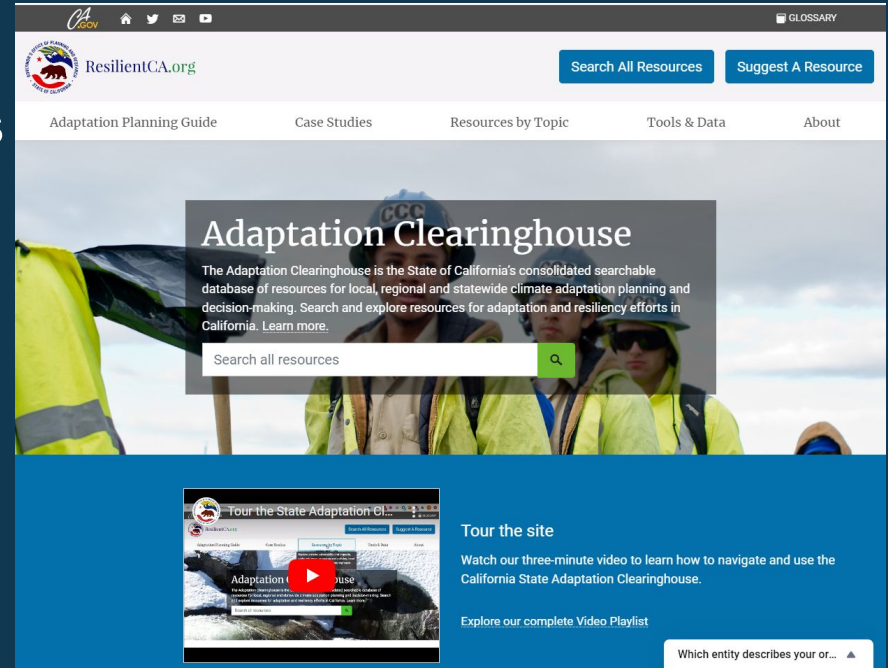
Web-hub with data and guidance to help identify populations across the state most vulnerable to the impacts of climate change

- Map climate hazard and social sensitivity data
- Compare existing vulnerability related tools
- Provide entry-level primer to resilience resources
- Provide examples and guidance for community users and organizations



Adaptation Clearinghouse

- Searchable database of resources for climate adaptation
- Includes planning guidance, case studies, and other resources intended to support decision making.



The screenshot displays the ResilientCA.org website. At the top, there is a navigation bar with the California State Seal, social media icons, and a GLOSSARY link. Below this is the ResilientCA.org logo and a search bar with buttons for "Search All Resources" and "Suggest A Resource". A secondary navigation menu includes "Adaptation Planning Guide", "Case Studies", "Resources by Topic", "Tools & Data", and "About". The main content area features a large banner image of construction workers in yellow safety gear. Overlaid on this image is the text "Adaptation Clearinghouse" and a description: "The Adaptation Clearinghouse is the State of California's consolidated searchable database of resources for local, regional and statewide climate adaptation planning and decision-making. Search and explore resources for adaptation and resiliency efforts in California. Learn more." Below the text is a search input field with a magnifying glass icon. At the bottom of the page, there is a blue section with a video player titled "Tour the State Adaptation Clearinghouse" and a call to action: "Watch our three-minute video to learn how to navigate and use the California State Adaptation Clearinghouse." Below the video player is a link to "Explore our complete Video Playlist" and a dropdown menu labeled "Which entity describes your or...".



Integrated Climate Adaptation and Resiliency Program (ICARP)

Climate Services

Ben McMahan

ben.mcmahan@opr.ca.gov



CA Governor's Office of
**Land Use and
Climate Innovation**

Strategic Growth Council's

Community Resilience Centers (CRC) &
Transformative Climate Communities (TCC)
Programs & Upcoming Funding Opportunities



CALIFORNIA STRATEGIC
GROWTH COUNCIL





Upcoming Funding Opportunities

Proposition 4 authorizes the state to borrow funding to support many programs including a few of those administered the California Strategic Growth Council – which are the Transformative Climate Communities Program (TCC), the Community Resilience Centers Program (CRC), and the Land Equity Task Force.

Community Resilience Centers (CRC)

“Funding...for the construction or retrofit of facilities to serve as community resilience centers that mitigate the public health impacts of extreme heat and other emergency situations exacerbated by climate change.” (SB 155, Committee on Budget and Fiscal Review, Chapter 258, Statutes of 2021).

- Emergency response and long-term resilience
- Integrated delivery of services
- Partnerships with CBOs and community residents
- Public process
- Prioritize projects located in and benefitting under-resourced communities
- Statewide geographic diversity

Past recipients: Cahuilla Band of Indians, Inland Coalition of Immigrant Justice, City of Banning, and City of Coachella



General Fund Round 1: \$97.6 million awarded to 24 communities

- 11 Planning Grants : \$100,000 - \$500,000 each
- 4 Project Development Grants: \$500,000-\$5M each
- 9 Implementation Grants: \$1M - \$10M each

Transformative Climate Communities (TCC)

Community-led transformation to enable the California communities most impacted by pollution to choose their own goals, strategies and projects to reduce greenhouse gas emissions and local air pollution.

- Partnerships with CBOs and community residents
- Select eligible project types
 - Urban greening, affordable housing, transportation, microgrids, residential solar, and more
- Community engagement, workforce development, and displacement avoidance activities
- Economic, environmental, and health benefits with GHG reduction

Past recipients: City of Coachella, City of Moreno Valley, Riverside County, City of Indio, City of Riverside, Coachella Valley Association of Governments



Rounds 1-5:

\$424 million awarded to 37 communities

- Planning: Up to \$300,000
- Project Development: Up to \$5 million
- Implementation: \$10 - \$66 million

Extreme Heat & Community Resilience Program

This program invests in local, regional, and tribal **heat reduction and mitigation efforts**. Funding aims to:

- Build capacity for heat action planning in the most heat-burdened communities through **funding and technical support**.
- Implement **California's Extreme Heat Action Plan**.



Newsletter Sign Up

Upcoming Engagement Opportunities

- More information to come on opportunities for engagement in 2025
- SGC will strive to coordinate engagement across programs
- Areas for input:
 - Application barriers and opportunities
 - Program requirements
 - Technical assistance
 - Priorities for program changes



Thank You!

CONTACT

CRC@sgc.ca.gov

TCC@sgc.ca.gov

LEARN MORE AT

sgc.ca.gov/grant-programs/crc/

sgc.ca.gov/grant-programs/tcc/



CALIFORNIA STRATEGIC
GROWTH COUNCIL

SIGN UP FOR PROGRAM UPDATES



CRC Email List
Sign Up



TCC Email List
Sign Up

State-Led Knowledge Exchange: Guiding Principles

Goals:

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- Discuss connections between State and Local actions, and opportunities to enhance collaboration

Questions to keep in mind:

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- What opportunities do you see for collaboration?
- What else would you like us to know?



State-led Knowledge Exchange

“Climate Action Planning at the State and Local Level”

CA Air Resources Board - Sarah Jo Szambelan (Lead)
Office of Land Use and Climate Innovation - Nils Jepson

Description:

This session will briefly present two state-level climate planning efforts and seeks local input that will help inform each. First, the Governor’s Office of Land Use and Climate Innovation (LCI), formerly the Governor’s Office of Planning and Research (OPR), is beginning its periodic update of the General Plan Guidelines (Guidelines). The Guidelines serve as the “how to” document for cities and counties drafting or updating their general plans. One of LCI’s central goals in this newest update is to incorporate climate throughout, from land use to circulation. Second, the California Air Resources Board (CARB) is seeking initial input at the onset of the State’s Comprehensive Climate Action Plan under the U.S Environmental Protection Agency’s Climate Pollution Reduction Grants program. Both agencies would like to hear from representatives from the Inland Empire about their climate impact concerns, climate mitigation priorities, how climate planning is being or might be integrated into general plans, and any region-specific barriers or opportunities that have arisen in-planning or other processes.

California's Comprehensive Climate Action Plan under U.S. EPA's Climate Pollution Reduction Grants (CPRG) program

DECEMBER 5, 2024



CalEPA
California Environmental
Protection Agency



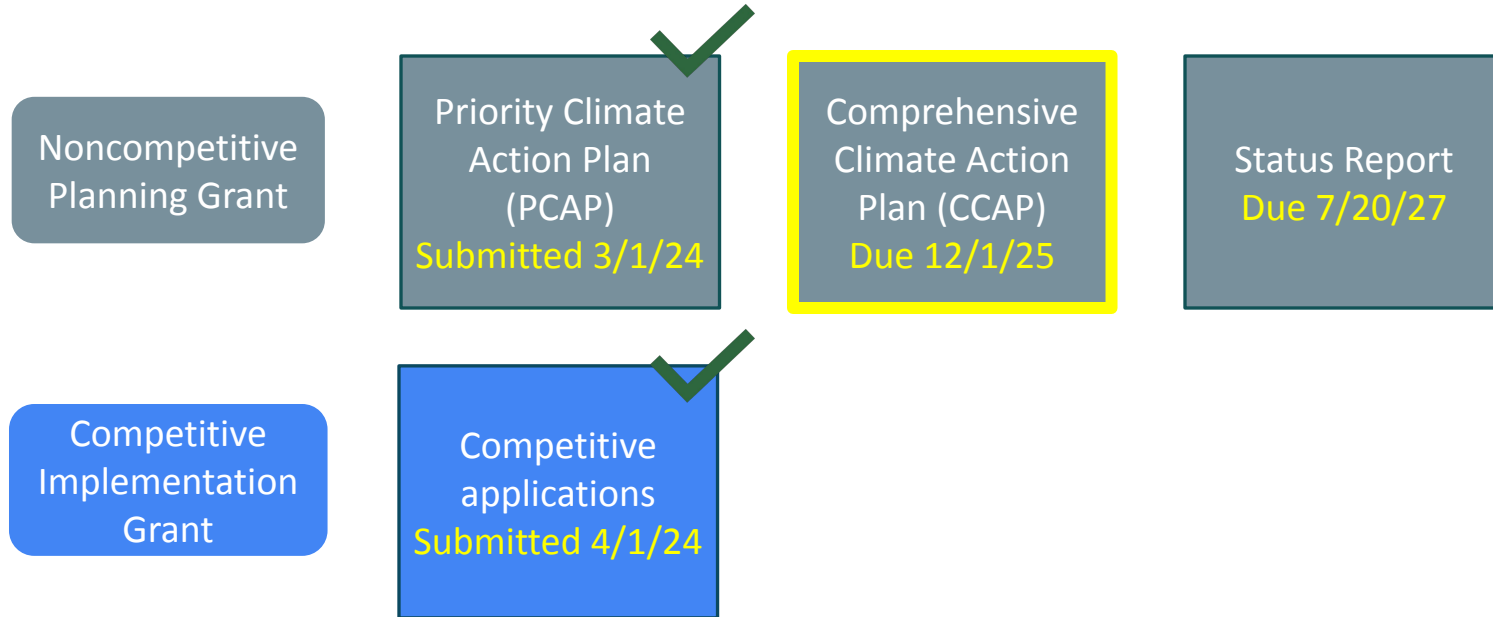
Overview of U.S. EPA's CPRG Program

The Climate Pollution Reduction Grants (CPRG) program provides nearly \$5 billion in grants to states, local governments, tribes, and territories to develop and implement ambitious plans for reducing greenhouse gas emissions and other harmful air pollution. Authorized under Section 60114 of the Inflation Reduction Act, this two-phase program provides \$250 million for noncompetitive planning grants, and approximately \$4.6 billion for competitive implementation grants.



CPRG requires 3 plans over 4 years

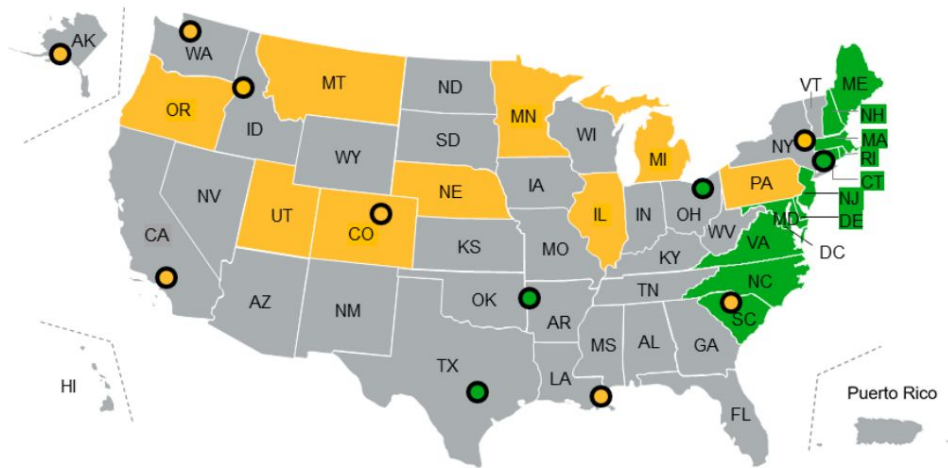
PCAP is complete, awards have been made, CCAP is next



Many awards made during CPRG competitive phase, and many projects still seeking support

Snapshot of awarded projects

Application Type: ■ Coalition ■ Individual ○ Local/Tribal



NEW RESOURCE

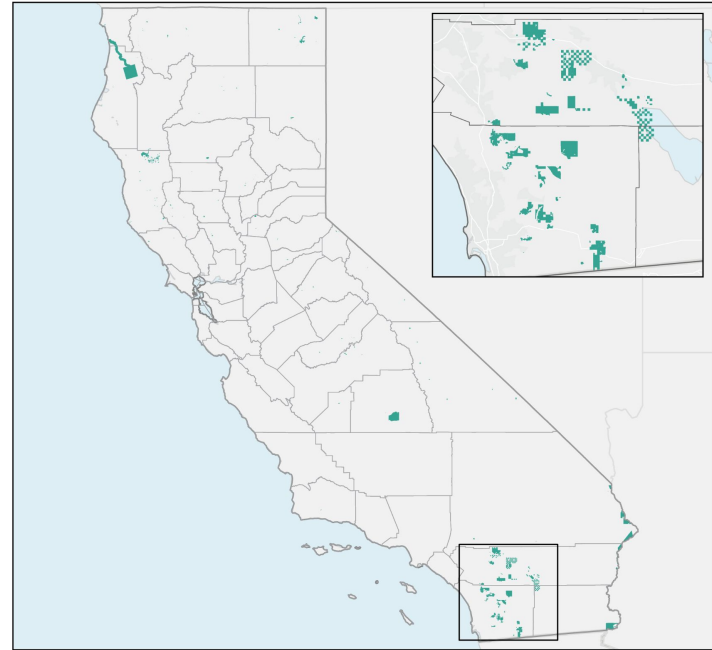
U.S. EPA's Climate Action Funding Resource Guide, including for CCAPs
[Investing in America: Climate Action Funding Resource Guide | US EPA](#)

[CPRG Implementation Grants: General Competition Selections | US EPA](#)

Collaborations with MSAs & Tribes

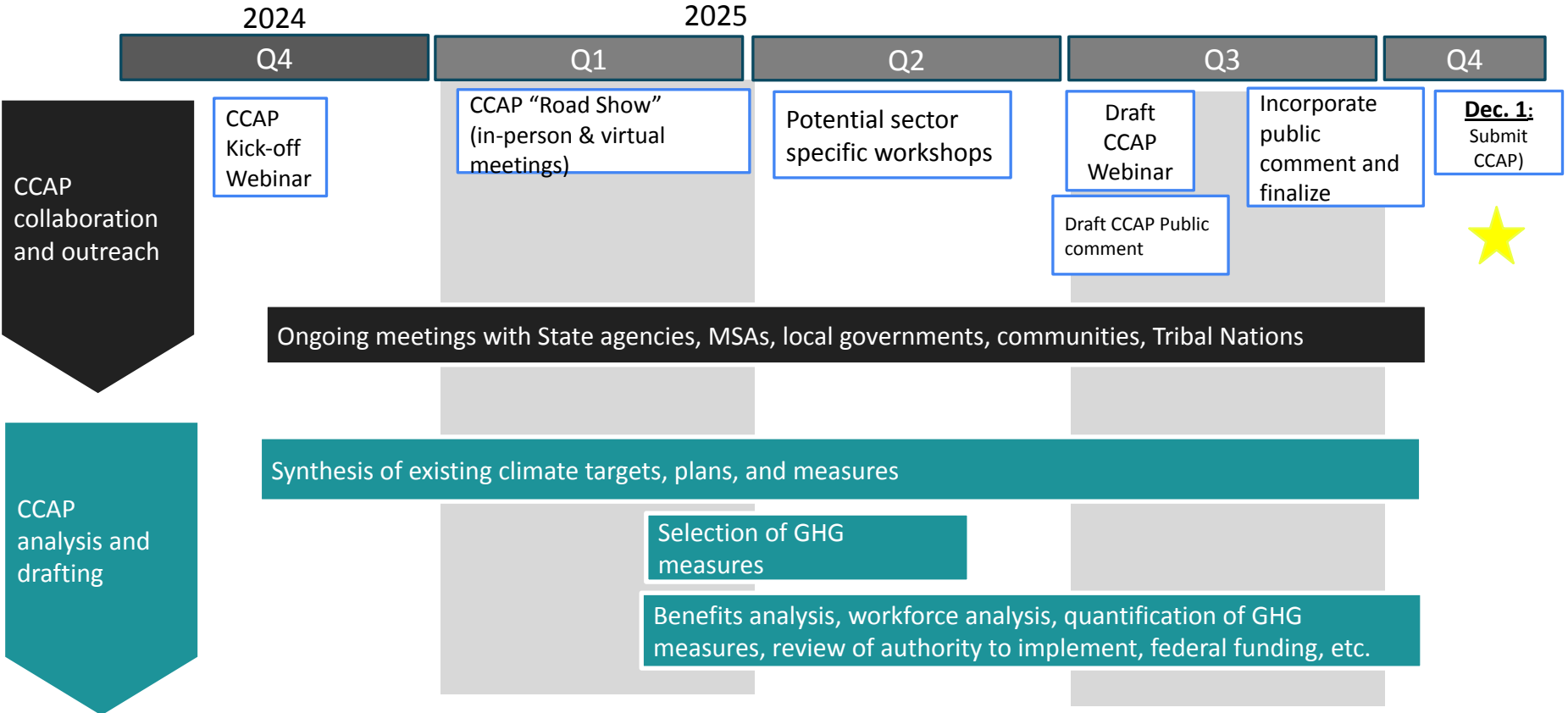


California State Parks, Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, USFWS



California State Parks, Esri, TomTom, Garmin, FAO, NOAA, USGS, Bureau of Land Management, EPA, NPS, USFWS, California State Parks, Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, USFWS

Rough timeline for CCAP development



We want to hear from you

- Please take and share our California Climate Action Survey!
- Find meeting materials and recording of this webinar at California's CPRG webpage:
<https://ww2.arb.ca.gov/us-epas-climate-pollution-reduction-grant-program-meetings-workshops>
- Email us at SarahJo.Szambelan@arb.ca.gov or ca.cprg@arb.ca.gov



Questions for discussion

1. Which climate change impacts are of most concern in your region?
2. Which areas of climate action would you prioritize in your region (transportation, buildings, industrial, waste, agriculture, etc.)?
3. What barriers or opportunities do you see in moving climate action forward in your region?

Incorporating Climate: GO-LCI's General Plan Guidelines Update

Dec 5, 2024

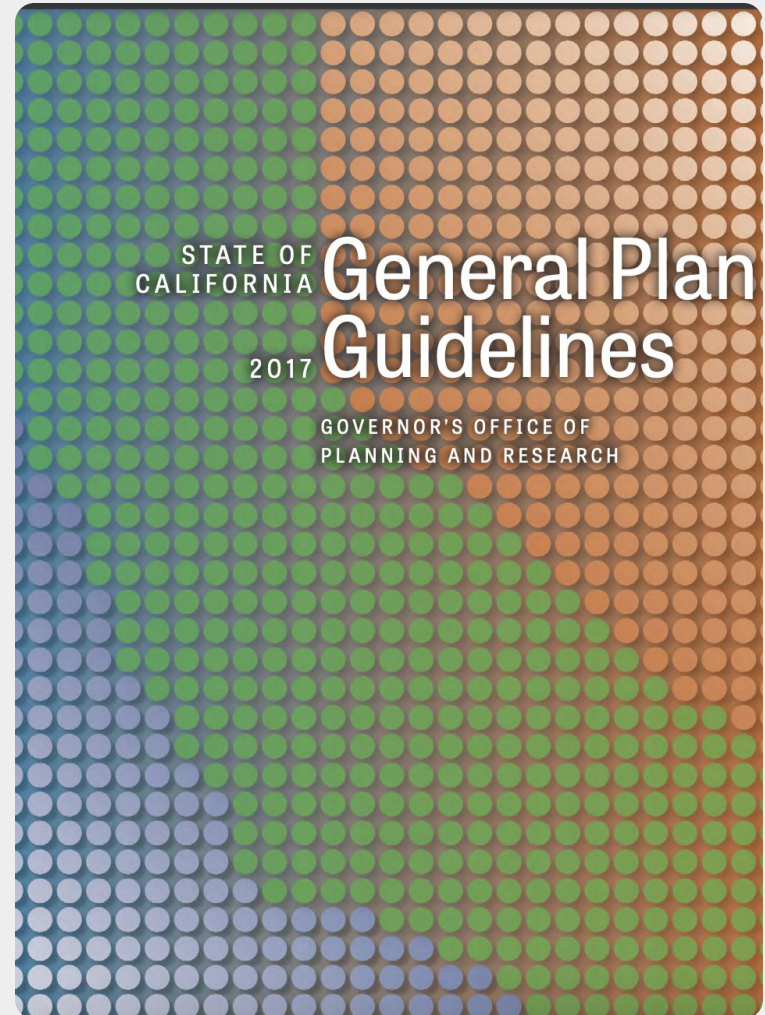


CA Governor's Office of
**Land Use and
Climate Innovation**

Background

Under Government Code section 65300, all cities and counties must adopt a comprehensive, long-term general plan for the physical development of their jurisdiction and any other land area outside of the jurisdiction that bears relation to its planning.

Government Code section 65040.2 requires that **OPR adopt and periodically revise the [State General Plan Guidelines](#)** for the preparation and content of general plans for all cities and counties in California.



Why update the general plan guidelines?

- Provide guidance on **new and amended laws and executive orders, 2017-2026;**
- Provide guidance on new (optional) elements including: **Urban Design & Placemaking, Water, and Natural & Working Lands**
- Make the Guidelines **more interactive and user-friendly;**
- Expand the **Implementation Chapter;** and
- Provide **implementation tools/strategies, best practices, and sample policies** in all chapters;
- Update the Guidelines with **housing crisis** in mind;
- Provide guidance to local jurisdictions on how to **embed equity, environmental justice, health, climate resilience, and adaptation in all elements.**

Integrating climate mitigation, adaptation, and resiliency.

- +/- of integrating CAPs w/ general plans
- Relationship between housing, climate, equity
- Using local zoning and planning authority to streamline climate actions
- Impact on tribal communities
- Exacerbation of existing inequalities
- Health risk of extreme weather events on vulnerable populations
- Alignment with Integrated Climate Adaptation and Resiliency Program (ICARP)
- Economic impacts of climate events
- Nature-based solutions such as urban forestry

Final products

Comprehensively update and rewrite:

- [General Plan Guidelines](#)
- [A Planner's Guide to Specific Plans](#)
- [OPR's 2005 Tribal Consultation Guidelines](#)
- [Climate Action Plans Technical Advisory](#)
- [Open Space \(SB 1425\) Technical Advisory](#)

Create an interactive website for the updated General Plan Guidelines

Thank You!

If you would like to sign up for updates and/or be a key stakeholder in LCI's update to the General Plan Guidelines, please email me!

CONTACT

nils.jepson@opr.ca.gov



CA Governor's Office of
Land Use and
Climate Innovation

STAY CONNECTED



[@Cal_LCI](https://twitter.com/Cal_LCI)



Governor's Office of Land
Use and Climate
Innovation (LCI)

Questions for discussion

Question 1:

If you are a planner or work for a local government, how have you – or hope to – integrated climate into your general plan’s different elements (land use, circulation, open space, etc.), as well as their subsequent implementation?

OR

If you work for a community-based organization or nonprofit, how have you collaborated with local government to integrate climate into your region’s general plan?

OR

If you are a researcher or academic, do you have any findings/insights on how to better integrate climate concerns into local general planning efforts?

Question 2:

What State resources or assistance could make it easier to update a region’s general plan? (i.e. What are some barriers in making a general plan update and how could the State assist?)



State-led Knowledge Exchange

“Regional Challenges to Renewable Energy Deployment”

GO-Biz - Rohimah Moly (Lead)

California Public Utilities Commission - Chris Moore and Hope Christiansen

Office of Land Use and Climate Innovation - Natalie Kuffel

Description:

Go-Biz survey and toolkit & incentive program

CPUC high DER

LCI Judicial streamlining

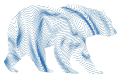


GO-BIZ Energy Project Permitting Guidebook & Toolkit

REACH - Inland Empire
12.05.2024

GO-Biz Energy Unit

- Created in 2021
- Accelerate the planning, financing, and execution of critical energy infrastructure projects
- Work with energy project developers and load-serving entities to identify barriers to construction and development of critical energy infrastructure projects
- Make recommendations to relevant state agencies on how to overcome those barriers



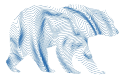
Tracking Energy Project Development

- **Executive Order** in 2021 directed energy agencies to coordinate on deployment of clean energy projects to reach reliability and climate goals.
- **TED Task Force** | Joint interagency effort to provide project development support for new energy projects expected to come online in the near-term



Challenges to Renewable Energy Project Deployment

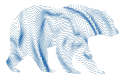
- Permitting
 - Supply Chain
 - Interconnection/Transmission



2024 | MWs Installed



| | Total MWs | Total Projects |
|-------------------------|-----------|----------------|
| 2024 Total | 6,865 | 108 |
| Jan - Oct Online | 5,588 | 91 |



Expected New Energy Resources

New MWs Expected - Nameplate By Year and Resource Type, including imports

Data includes projects expected/under contract as of October 2024

| Resource Type | Q4 2024 | 2025 | 2026 | 2027 | 2028 | Total |
|-----------------|--------------|--------------|--------------|--------------|------------|---------------|
| Solar | 465 | 631 | 835 | 320 | 0 | 2,251 |
| Battery Storage | 1,580 | 3,528 | 2,346 | 3,883 | 290 | 11,627 |
| Paired/Hybrid | 88 | 1,004 | 709 | 1,089 | 70 | 2,960 |
| Wind | 0 | 71 | 1,583 | 250 | 0 | 1,904 |
| Geothermal | 0 | 15 | 179 | 30 | 284 | 508 |
| Biomass/Biogas | 5 | 11 | 0 | 0 | 0 | 16 |
| Totals | 2,138 | 5,260 | 5,652 | 5,572 | 644 | 19,266 |

Source: CA Public Utilities Commission

- Over 19,000 MW nameplate of future contracts are executed to meet CPUC's procurement order obligations.
- Majority of new resource MWs are expected to be battery storage and hybrid solar+storage.
- Other types of resources are eligible to meet orders and may be contracted in the future.



GO-Biz Energy Project Permitting Guidebook & Toolkit

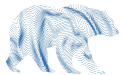


- Funding in 2022-23 Budget Act
- Establish best practices and produce documentation to increase transparency and alignment of local jurisdiction permitting processes to significantly reduce barriers for deployment of energy projects



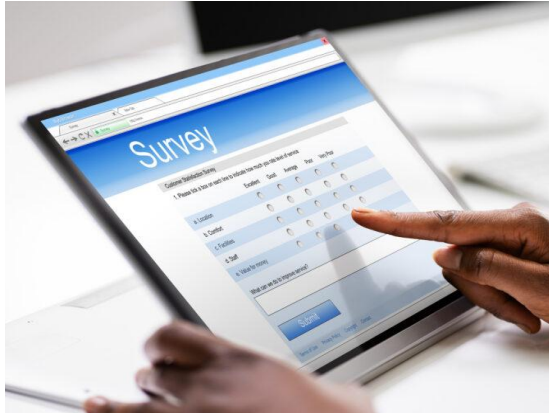
Approach to Developing Guidebook & Toolkit

- Assess local jurisdictions permitting processes for large-scale renewable projects
- Report on findings
- Develop toolkit that will include
 - ✓ smart practices
 - ✓ approaches for process improvements
 - ✓ strategies that enhances connectivity b/w responsible entities



Stakeholder Input

Survey QR Code



Survey Link: <https://tinyurl.com/go-biz>



Connecting and Maximizing Value of Local Energy Resources



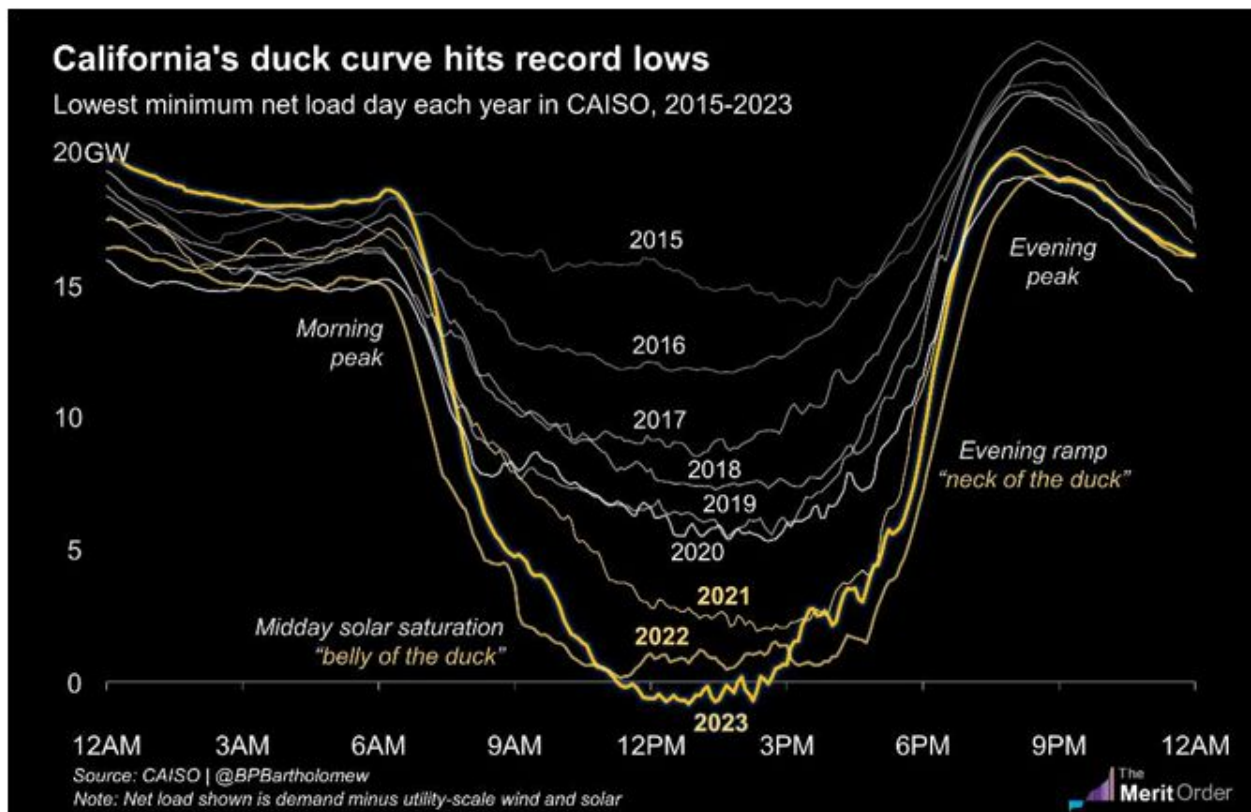
California Public
Utilities Commission

CPUC External Affairs Division

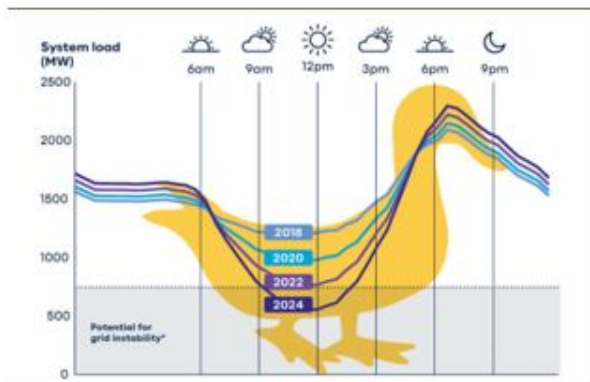
Overview

- Helping the Duck (Curve)
- Where the System is Currently Missing Data and Value from DERs
- Limited Generation Profiles
- The Data Working Group
- Energization and Distribution Planning

The Infamous Duck



What is Demand Response/Flexibility?



Demand Response/Flexibility is a change in customer demand in response to **market prices**, **emergency grid conditions** or **dynamic rates**.

This change could be a **Reduction**, **Shift** or **Increase** in demand.

Why is Demand Flexibility Important?

Because our duck needs help!

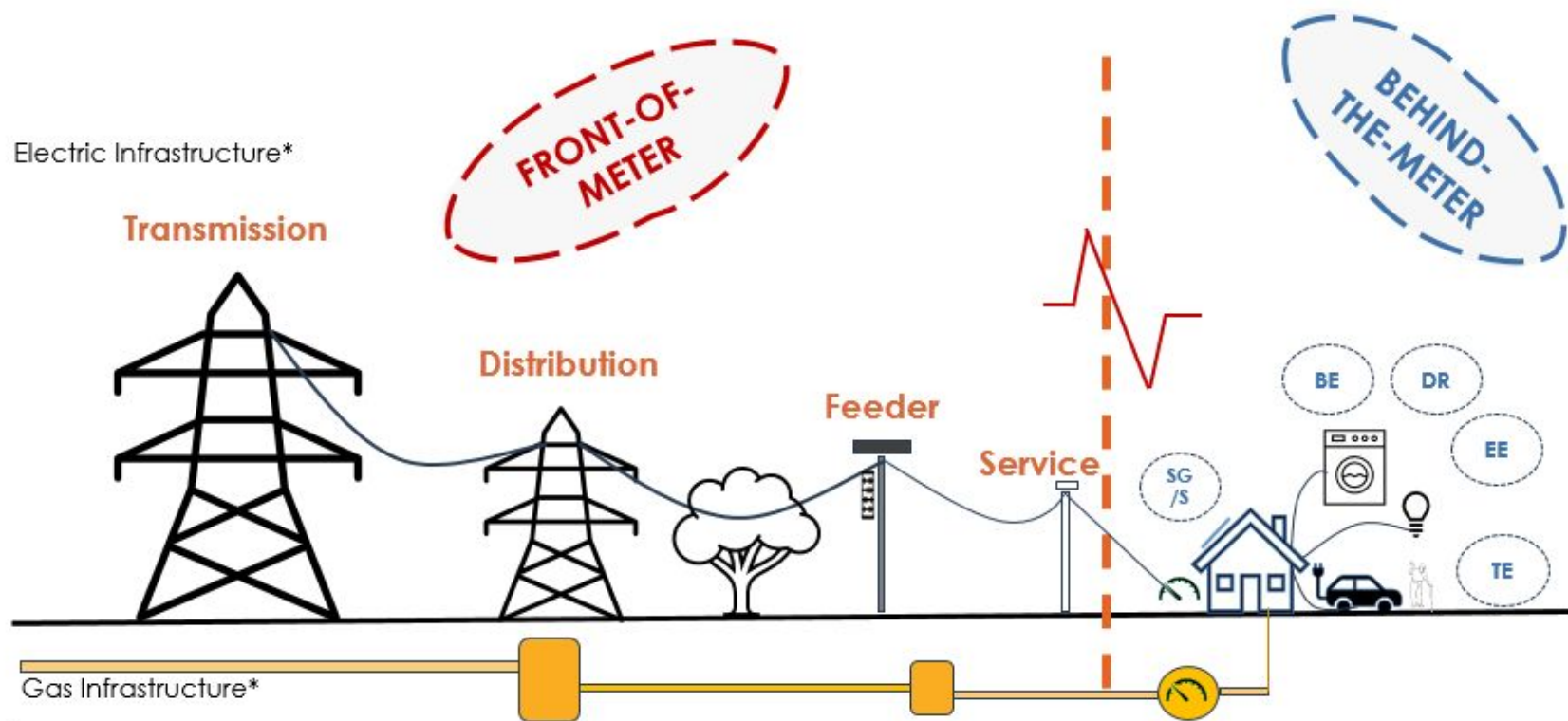


Examples from Aggregators in Wholesale Market

- Incentives for installation of EV chargers, smart thermostats, and water heaters and automated load shifting.
- Residential solar plus storage systems. Batteries are dispatchable and are a resource during peak evening hours.
- Demand response program which provides commercial customers with incentives for shifting load away from peak hours.

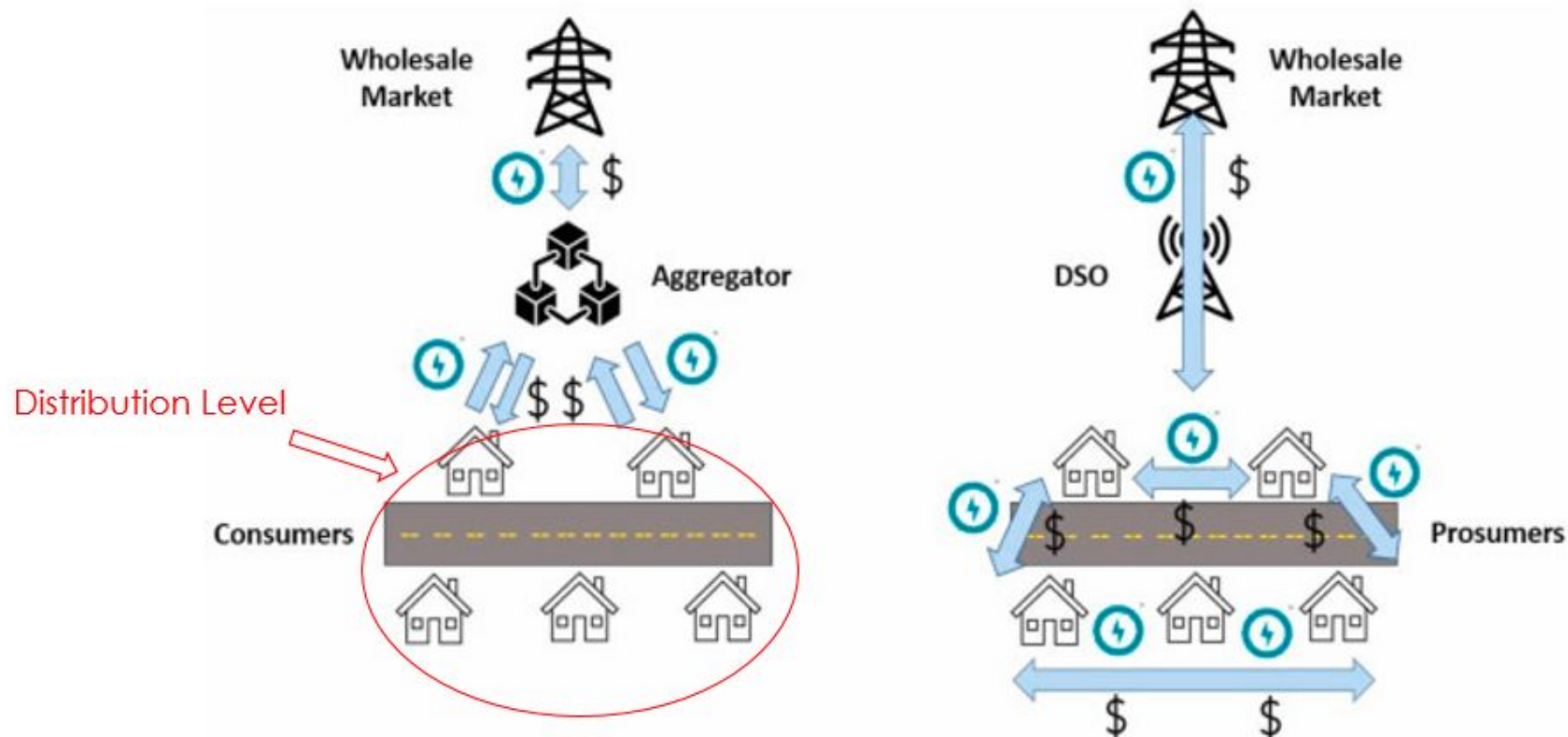


Decarbonization Data Framework



*Schematic representation only.

Benefits of Distribution Level Coordination



Source: Distributed energy resource participation in electricity markets: A review of approaches, modeling, and enabling information and communication technologies. <https://doi.org/10.1016/j.esr.2022.100940>

What Are We Missing?

Data and Value for Aggregators and Customers

- Data on "operational needs" of the grid as well as where customers are on it.
- Knowledge on the value of DERs at given time/place and corresponding compensation for aggregators and customers.

Value to the Grid and Ratepayers

- Ability to avoid grid stress by placing load (e.g. EV chargers) and demand response resources optimally.
- Ability to deploy more quickly and avoid costly upgrades!

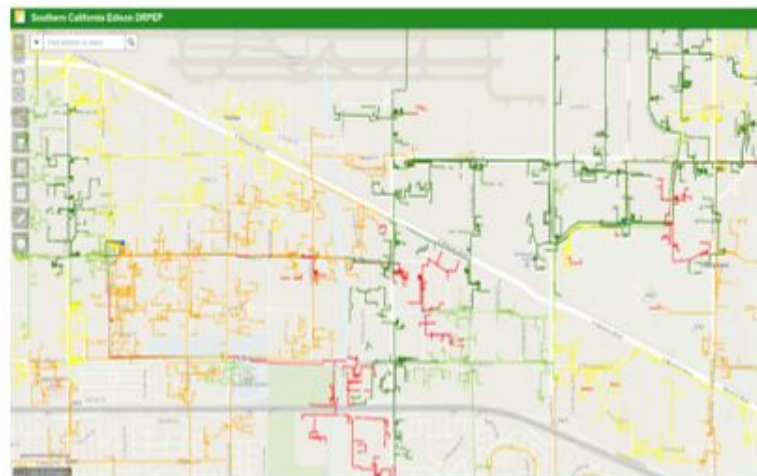
Limited Generation Profiles

- Allows interconnection of renewables while avoiding grid upgrades
- Specify max allowed export for times of the year.
- Includes protections against curtailment or required payment for grid upgrades.

Integration Capacity Analysis (ICA):

Estimates the maximum amount of power that can be injected to, or drawn from, the distribution system requiring minimal to no distribution upgrades or operational restrictions.

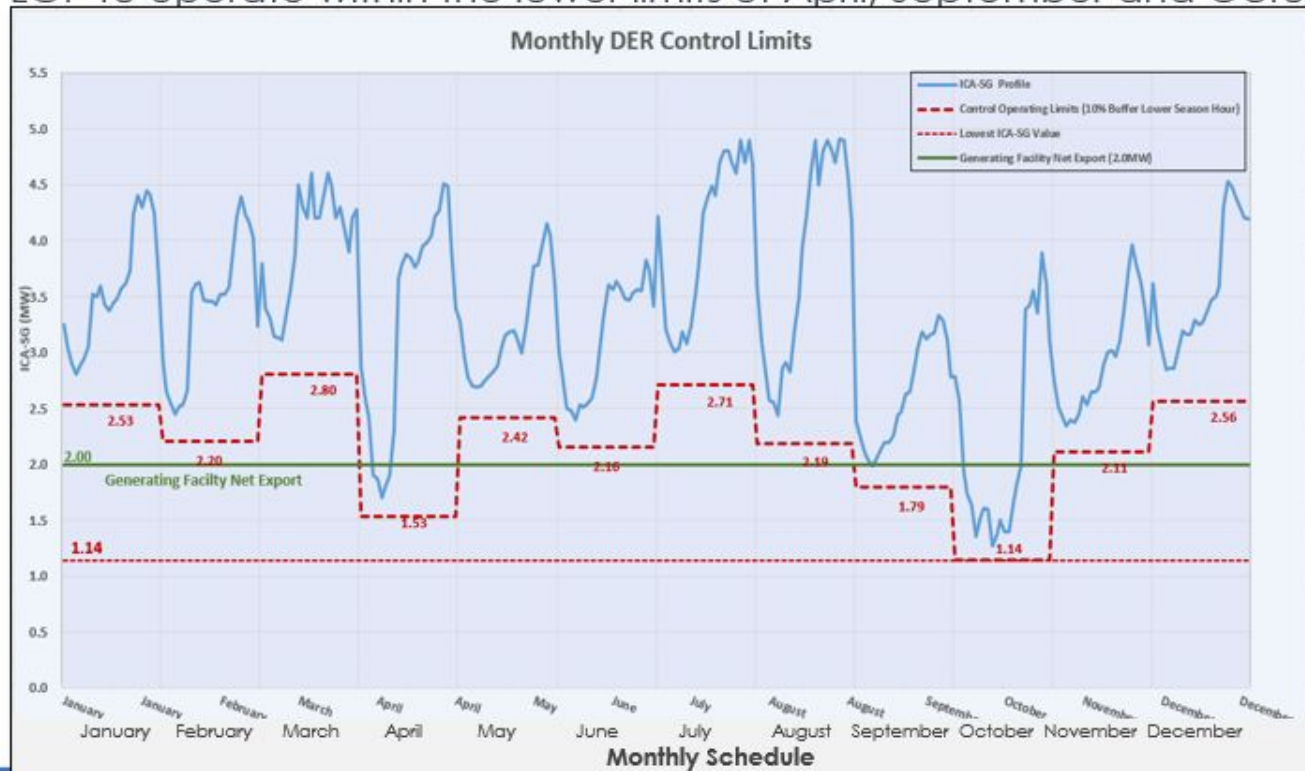
- Public and used for distribution planning, DER integration, siting DER, EVSE, and other loads
- Currently they are largely too unreliable to be actionable, built on hourly/historical data



Source: SCE DRPEP Map

Limited Generation Profile – Example from SIWG

As shown on the graph, the GF Net export is 2.0 MW which is higher than 1.14MW (lowest ICA-SG value in the ICA-SG profile). Customer can choose to request using LGP to operate within the lower limits of April, September and October.



| Month | Limits |
|-------|--------|
| Jan | 2.00 |
| Feb | 2.00 |
| Mar | 2.00 |
| Apr | 1.53 |
| May | 2.00 |
| Jun | 2.00 |
| Jul | 2.00 |
| Aug | 2.00 |
| Sept | 1.79 |
| Oct | 1.14 |
| Nov | 2.00 |
| Dec | 2.00 |

Overview of the Data Access & Cost Effectiveness Proceeding (R.22-11-013) – Phase 1

Two Tracks:

Track 1: Cost-effectiveness Rules

- Examines how to make cost-effectiveness assessments more accurate and consistent across DER programs. Covers updates to the Avoided Cost Calculator.



Track 2: Data Access for DERs

- Examines the rules and requirements to improve data access to facilitate adoption, evaluation, and utilization of DERs by customers and other entities and to improve DER integration with the grid.
- Implicates multiple CPUC proceedings.
- Successor to Integrated Distributed Energy Resources Proceeding (R.14-10-003).

Data Issues to Address

Standardization of Advanced Metering Infrastructure (AMI) data

- AMI data collection procedures and the resulting data are not rigorously standardized. Various types of devices, collection parameters, and data cleaning procedures are employed within and across utilities.
- Issues include invalid meter readings (timestamps, metadata), measurement anomalies, collection gaps, biased and noisy measurements, time synchronization, and meters missing data altogether.

Statewide DER asset and attribute database and distribution services market

- Provide a centralized and standardized DER asset registry, similar to DG Stats.
- Create a statewide market platform for grid services

Real time grid and DER operation data sharing

- IOUs have access to real time grid conditions through ADMS and DERMS platforms.
- Other parties can benefit from equal access to the comprehensive view of current grid needs and a forecast of short-term needs with a high degree of accuracy.

Participating in Data Working Group



- Meets monthly from August 2024 to April 2025.
- Facilitated by California Center for Sustainable Communities at UCLA with support from the LA Regional Collaborative and funding from CPUC.
- Next meeting December 16 on Market Integration + Load Flexibility and Rates
- <https://www.laregionalcollaborative.com/data-working-group>
- Can submit questions and use cases for consideration through website.

Other Supporting Actions

- Energization and Distribution Planning



Thank you!



California Public Utilities Commission

christopher.moore@cpuc.ca.gov
213-220-1344

Judicial Streamlining

Natalie Kuffel

Deputy Director, Planning and Climate Policy



CA Governor's Office of
**Land Use and
Climate Innovation**



Judicial Streamlining Program Overview

The Judicial Streamlining Program accelerates judicial review for projects certified by the Governor, reducing CEQA lawsuit delays from 3-5 years to ~270 days. Certified projects may also gain better financing and federal funding opportunities.

Key Legislation:

- **SB 7 (2021)**: Streamlines projects over \$100M or those providing affordable housing.
- **SB 149 (2023)**: Expands eligibility to certain infrastructure projects.



Clean Renewable Energy Generation

Definition: Generates electricity exclusively through wind or solar (PRC 21180(b)(2)).

Fees: OPR: \$39,000, Trial Court: \$180,000, Court of Appeal: \$215,000

Environmental Leadership Development Project (SB 7) Requirements:

- Invest \geq \$100M in California (PRC 21183(a)(1))
- Create high-wage, skilled jobs (PCC 2601(d))
- Comply with waste recycling laws
- Enforceable CEQA mitigation measures
- **GHG Criteria:** No net GHG emissions, including from employee transport (21183(c)(1)).

GHG Mitigation Order:

1. Direct emission reductions from the project
2. Local emission reductions (same air district)
3. Local offsets: real, permanent, verifiable
4. Offsets with direct regional environmental benefits



Climate Innovation
Land Use and
Climate Innovation

Energy Infrastructure

Definition: Projects including renewable energy sources, energy storage systems, related components, and electric transmission from zero-carbon resources (PRC 21189.81(c)).

Fees: OPR Rulemaking coming; Trial Court: \$180,000 and Court of Appeal: \$215,000 (private applicants only)

Green Infrastructure Project (SB 149) Requirement:

- Binding agreement to mitigate environmental impacts in disadvantaged communities.

GHG Criteria:

- No net GHG emissions, including from employee transport (21189.83(a)).

GHG Mitigation Order:

1. Direct emission reductions from the project
2. Local emission reductions (same air district)
3. Local offsets: real, permanent, verifiable
4. Offsets with direct regional environmental benefits



Energy Infrastructure

Additional Requirements:

- Hydrogen and biomass projects do not qualify
- The following projects must use a skilled and trained workforce (PCC 2601(d)) and pay construction workers greater than or equal to the prevailing rate of per diem wages for their work type and geographic area 21189.81(d)(2):
 - Solar photovoltaic (PV) and terrestrial wind projects with a capacity of 20 Megawatts (MW) or more
 - Energy storage projects with a capacity of 80MW or more
 - Thermal energy powerplants with capacity of 50MW or more
 - Manufacture of renewable energy systems or components thereof via a capital investment of \$250 million or more over five years
 - Electric transmission lines connecting any of the above to an interconnected transmission system



Application Process

1. Submit your interest form
2. Gather application materials according to the guidelines and statutory requirements.
3. Submit applications to California.Jobs@opr.ca.gov and label application as “Draft” or “Final” in the subject line of the email.
4. Format all application materials according to State and federal accessibility requirements.



Thank You!

CONTACT

California.Jobs.ca.gov

LEARN MORE AT

lci.ca.gov

STAY CONNECTED



[@Cal_LCI](https://twitter.com/Cal_LCI)



Governor's Office of Land
Use and Climate
Innovation (LCI)



CA Governor's Office of
Land Use and
Climate Innovation



Region-led Knowledge Exchange

Introducing Breakouts

- **Owl: Clean Transportation**
 - Speakers: Center for Sustainable Energy, GRID Alternatives, City of Palm Springs
- **Flicker: The Real Drivers of the Energy Affordability Crisis**
 - Speakers: Western Riverside Council of Governments, San Diego Community Power, The Energy Coalition, City of Colton Electric Utility
- **Hummingbird: Decarbonizing Homes and Buildings**
 - Speakers: Los Angeles County, South Coast AQMD, City of Palm Springs
- **Hawk: Community and Energy Resilience**
 - Speakers: Morongo Band of Mission Indians, Western Riverside Council of Governments, Desert Healthcare District



Clean Transportation



Director, Transparency &
Insights
Center for Sustainable Energy
Kara Crohn



Clean Mobility Program
Specialist
GRID Alternatives
Norah Kyassa



Director
City of Palm Springs, Office of
Sustainability
Lindsey-Paige McCloy

Clean Transportation

Inland SoCal – Let's Make it Happen!

December 5, 2024

Kara Crohn, Research Director

Data Visualization, Program Evaluation, User Experience, Market Research



Center for
Sustainable
Energy®

About Center for Sustainable Energy

Focus Accelerate adoption of clean transportation and distributed energy through effective and equitable program design and administration

Clients Governments, utilities and the private sector

Approach Data-driven and software-enabled approach
Deep domain expertise
Customer-focused team
Fee-for-service business model ensures independence

Vision A future with sustainable, equitable and resilient transportation, buildings and communities

\$4B+ Program Management Portfolio



EV Incentive Programs: \$2.3B+

- CA – Clean Vehicle Rebate Project
- CT – CHEAPER
- DE – Clean Vehicle Rebate Project
- MA – MOR-EV
- NJ – Charge Up New Jersey
- NY – Drive Clean NY & Truck Voucher
- OR – Clean Vehicle Rebate Program
- VT – PEV, Replace Your Ride, E-Bikes
- Utility EV programs (PG&E, SCE)

Over 600,000 rebated vehicles



EV Charging Incentive Programs: \$500M

- CA – CALeVIP
- MA – MassEVIP
- NJ – Residential Charger Program
- NY – Charge Ready New York
- PA – EVSmart

Funding issued for:
6,000+ L2 chargers
1,400+ DCFC connectors



Distributed Energy: \$1.3B

- CA – Solar on Multifamily Affordable Housing
- CA – Self-Generation Incentive Program
- TBA - Solar For All programs

8,400 projects funded

Let's Take the Lead on Clean Transportation

In Inland SoCal, we can leverage our assets to advance clean transportation for our communities and beyond.



Incentivize
local market
transformation



Build
our own
infrastructure



Advocate
for cohesive
policy



**Work
Together** for
win-win
innovations

Why Clean Transportation Matters

Climate

Transportation is the largest source of U.S. greenhouse gas emissions (GHG) ([U.S. EPA, 2022](#))

- 57% Light-duty (LD)
- 23% Medium- and heavy duty (MD/HD)
- 20% Aircraft, Other, Rail, Ships and Boats

Money

An EV can save a driver \$6,000-\$12,000 over vehicle lifetime vs. gas car ([Consumer Reports, 2023](#))

Health

No tailpipe emissions -> less pollutants -> fewer premature deaths ([Choma et al](#))

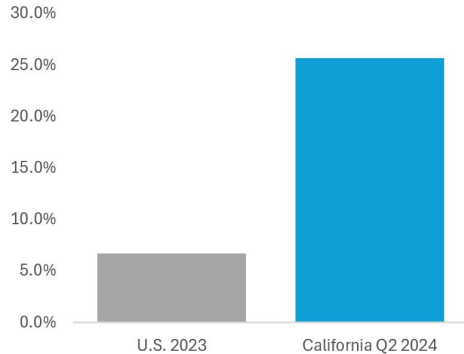


Why Incentivize EVs?

Over 10 years, California LD EV incentives have helped transform the market.

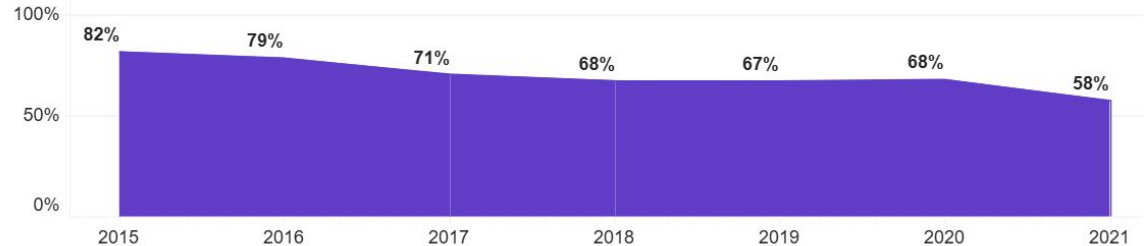
California ahead of U.S. in EV adoption

Percent of vehicles sold that are EVs



How Much of the EV Market Did the Programs Capture Over Time?

Cumulative incentives issued divided by cumulative EVs on the road in California. | Not filterable





Why Incentivize EV and EVI in Inland SoCal?

EV and charging infrastructure adoption is growing, but we will still need incentives to meet our decarbonization goals.

- Inland SoCal is behind the rest of the state in LD EV and EVI adoption
 - 11.5% of all cars and trucks registered in California [\(CA Department of Motor Vehicles, 2022\)](#)
 - 9.3% of all EVs registered in California (CA Department of Motor Vehicles, 2022)
 - 4.3% in San Bernardino County
 - 5% in Riverside County
 - Combined, Riverside and San Bernardino counties have
 - 2x **less L2** EV charging than San Diego County
 - 40% **more DCFC** charging (mostly on long distance routes)
- MD/HD EV and EVI sales are increasing due to regulatory pressure, but cost is an order of magnitude greater than LD

Goal

100% zero-emission



LD sales
2035



MD/HD
sales
2045

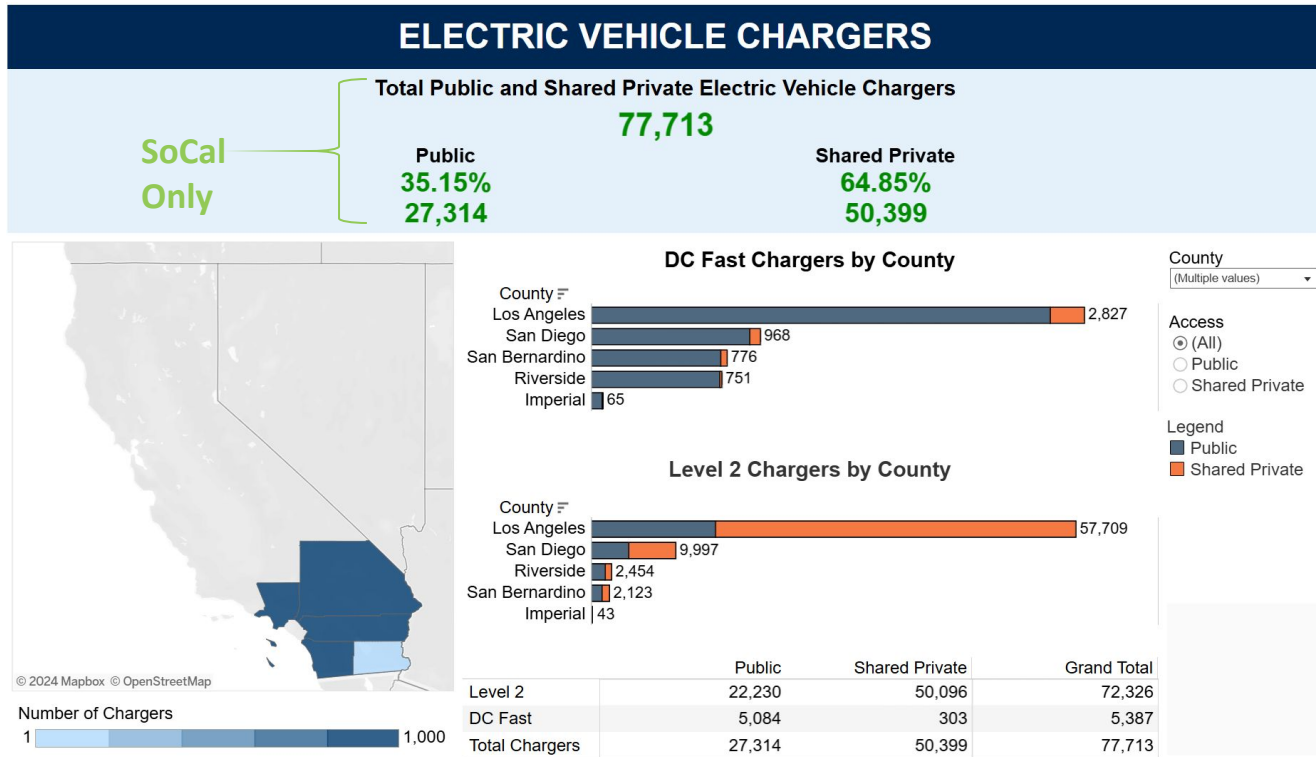
Inland SoCal Needs More Charging Options

Statewide

- 150,000 public or shared private chargers installed
- 500,000 at home chargers

Inland SoCal

- Our region is behind LA, Orange, and San Diego Counties in available public chargers



LD EV incentives issued in Inland SoCal:

Riverside County: 23,819

Breakdown by Equity Community:



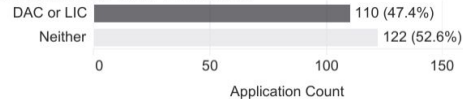
San Bernardino County: 19,905

Breakdown by Equity Community:



Imperial County: 232

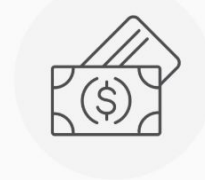
Breakdown by Equity Community:



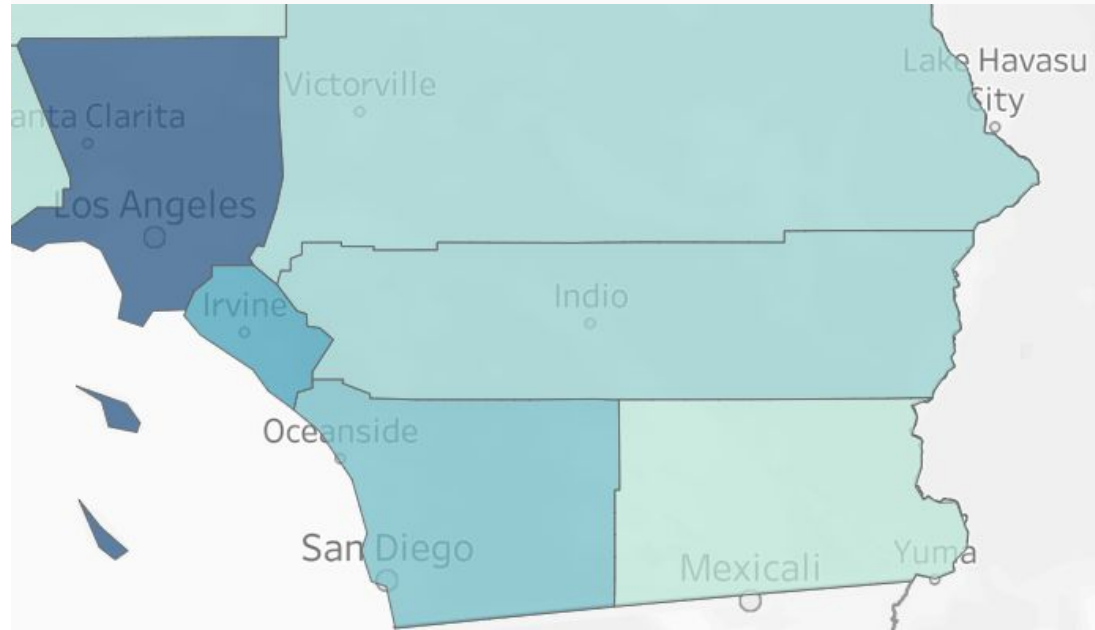
\$128,593,624
Funds Distributed



43,956
EVs Incentivized



\$35,177,011
Funds Distributed
to DACs/LICs





Regional Plan Focus on Clean Tech, Manufacturing, and Cybersecurity Will Support Ecosystem of Related Jobs

Using logistics as an example...

Thrive Inland SoCal
Regional Economic Plan's
Clean Tech and Advanced
Manufacturing **strategies**
support pathways for
skilled workforce in
clean transportation

- Regional charging hubs near logistics facilities can **create opportunity for more efficient use of charging resources** by generating constant electrical demand
- As logistics industry automates...
 - Advanced manufacturing can use logistics spaces and build products for clean transportation industry
 - We can **replace lower-wage jobs with higher-wage, higher skilled jobs** in manufacturing, EV and EVI higher-voltage operations, cybersecurity to protect infrastructure assets
- Training and workforce development pipelines linking training to apprenticeships and degrees/credentials support career pathways
 - CSU San Bernardino is training cybersecurity and IT professionals
 - RCCD trains electricians and EV/EVI workforce



Advocate for Coherent Policies that Support Communities and Clean Tech Ecosystem

Inland SoCal collaboratives need to advocate for policies that will help efficiently accelerate clean power options

Concerns...

- Growing electric demand must be carbon-free by 2045: SCE increased 10-year growth forecast by another 35%
- Significant barriers to establishing strong distributed energy systems with charging that benefit communities (permitting delays, power sharing, grid capabilities)
- Risk of technology obsolescence for expensive, long-term MD/HD electrification investments (water district fleets, drayage fleets)
- Workforce not prepared to address operations and maintenance needs

Policy changes could help...

- Support distributed generation projects with power sharing agreements and clean air commitments for communities that host charging hubs – leverage commercial/industrial locations for solar+storage
- Continue to ensure that tribal communities have true sovereignty over transportation and building electrification choices
- Make sure it costs more for companies to pay penalties for polluting MD/HD trucks than it would to install and maintain MD/HD charging infrastructure
- Support apprenticeship and training and job placement programs for local EV/EVI workforce



Work For Win-Win Innovative Projects

We must work together across sectors and interests to secure funding for Inland SoCal clean tech projects that improve work, life, and transportation

How can **you** make change happen?

- Which specific communities and organizations are willing to pitch a collaborative clean energy and transportation project?
- Which partnerships can support career pathway development in clean transportation?
- What funding sources can you help bring to the region?

Thank you

Thank you to colleagues who informed this presentation:

- CSE: Rick Teebay, Stephanie Furnish, Cori Erickson, Daniel Flores, Cecilia De La Fuente Chavez, Crista Gregg
- AQMD: Todd Warden
- IEGO: Matthew Mena
- IELI: Hillary Jenks
- GreenLane Infrastructure: Andrea Pratt
- LA County Sanitation Districts: Diane Engler
- Santa Clarita Valley Water Agency: Jesus Martinez Ramirez

Current EV and EVI Incentives for Inland SoCal



Vehicles

- Driving Clean Assistance Program
 - EV purchase incentive
 - Financing assistance
 - Scrap and replace option - Clean Cars 4 All
- SCE Pre-Owned EV Rebate
 - Used EV incentive
- Replace Your Ride
 - EV voucher
- Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project
 - Funding open for Transit, Drayage truck, Innovative Small e-Fleets (rent, lease, truck-as-a-service)



Infrastructure

- Driving Clean Assistance Program
 - Home charging and public charging incentives
- SCE Charge Ready Home
 - Panel upgrade to support charging
- CALeVIP
 - Incentives to install publicly-accessible EV chargers
 - 2025: DC fast charger program begins
- Communities in Charge
 - Incentives to install private and public L2 chargers





58

Reserved
DC Fast Charger Ports



337

Reserved
Level 2 Ports



158

Operational
DC Fast Charger Ports



169

Operational
Level 2 Ports

\$91,901,075
Funding
Applied For

\$4,412,000
Funding
Reserved



\$4,976,875

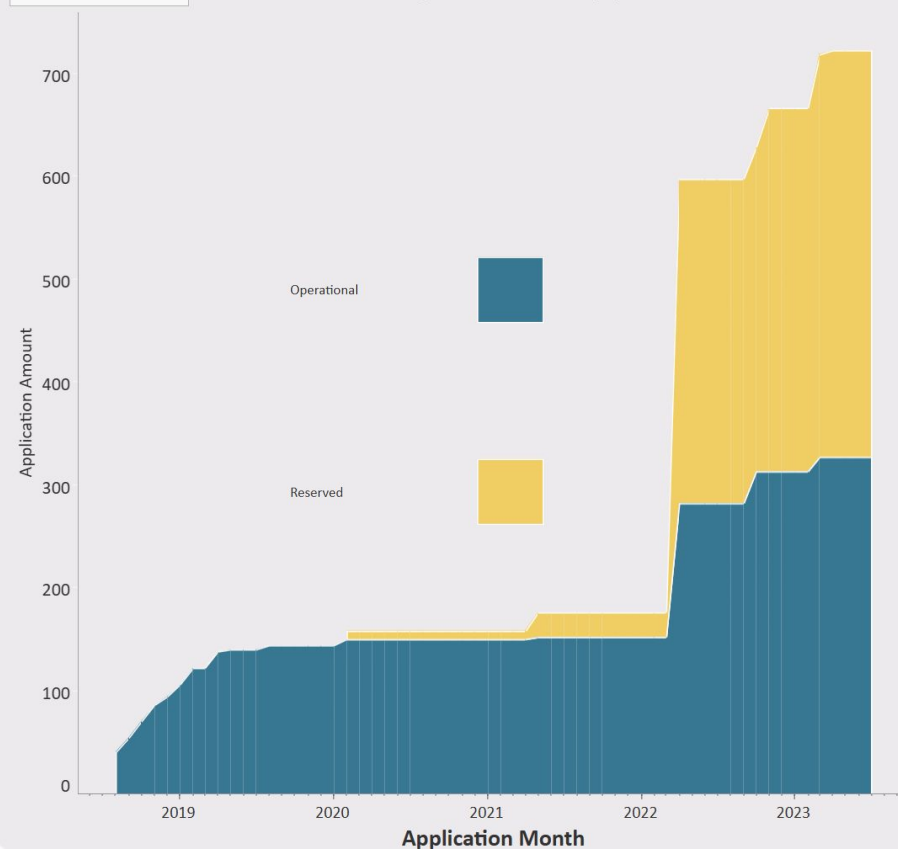
Funding
Issued

- The CALeVIP program is helping increase LD public charging throughout Inland SoCal
- Likely offering new DCFC funding in 2025
- Projects can take 18+ months to complete

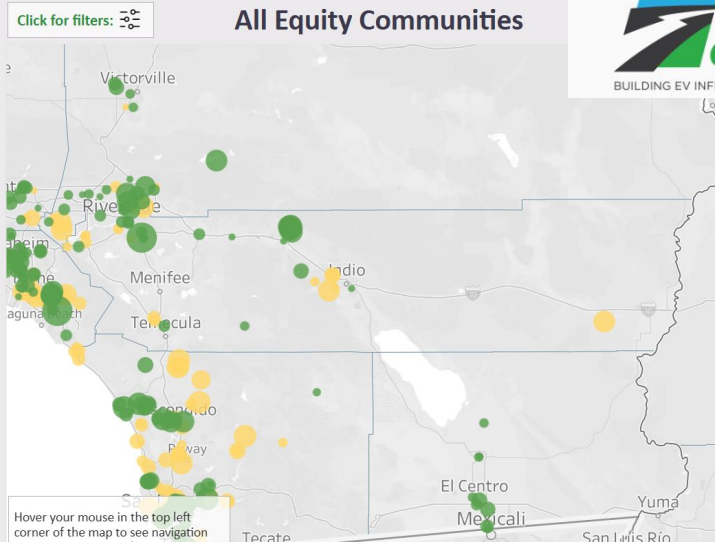


Total Ports by Current Application Status

Click for filters: [Filter icons]



All Equity Communities



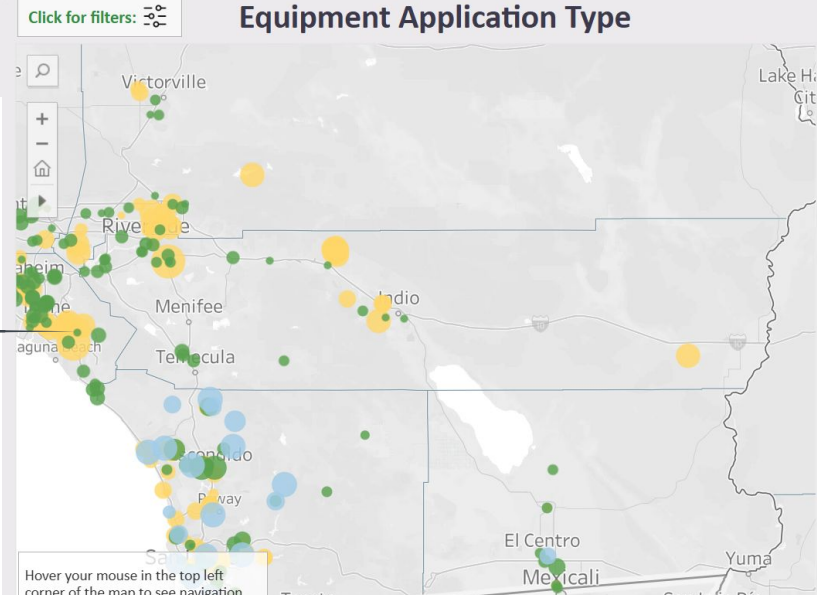
- Equipment Application Type
 - Applicant Type
 - Main Site Uses
 - Site Type
 - All Equity Communities
 - Disadvantaged Communities
 - Low Income Communities
 - Air District
 - Utility Provider
 - Network Provider
- Show/Hide Received Applications
Hide Received Applications

Equity Community ■
Not an Equity Community ■

Rebate Statistics Dashboard

- Intentional investment in equity communities
- Desert regions underserved

Equipment Application Type



Click for filters: [filter icons]

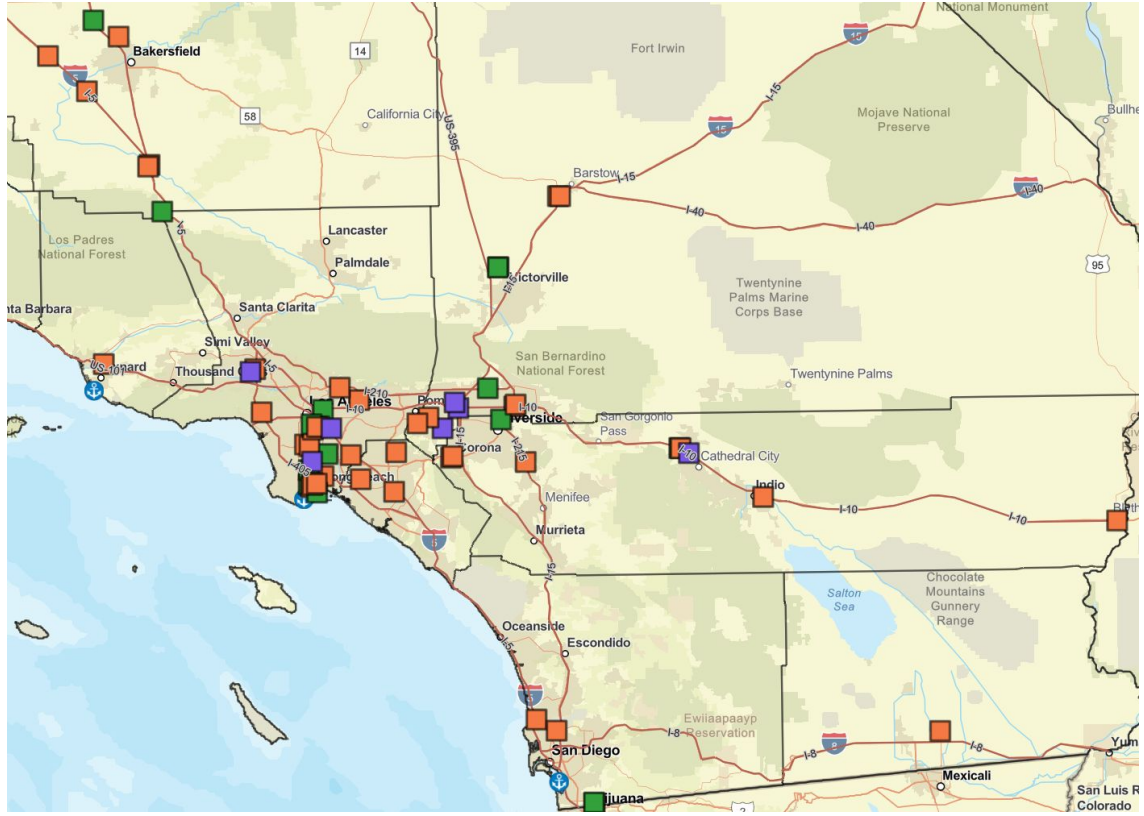
- Select Data View
- Current Application Status
 - Incentive Project
 - Equipment Application Type
 - Applicant Type
 - Main Site Uses
 - Site Type
 - All Equity Communities
 - Disadvantaged Communities
 - Low Income Communities
 - Air District
 - Utility Provider
 - Network Provider
- Show/Hide Received Applications
Hide Received Applications

Combination
Application
DC Fast Charger ■
L2 ■
■

Substantially more L2 than DCFC funded to date
<https://calevip.org/rebate-statistics>



Medium-and Heavy-Duty Zero Emission Vehicle Charging and Hydrogen Infrastructure



Beta Version of Dashboard

- Includes locations under development and operating
- Estimated transit infrastructure included in private charging and infrastructure totals

- Charging
- Hydrogen
- Both



California Energy Commission 2024. California Energy Commission MDHD ZEV Station Development in California - Beta Version. Data Last Updated October 8, 2024. Retrieved 11/27/2024 from <https://www.energy.ca.gov/data-reports/energy-almanac/zero-emission-vehicle-and-infrastructure-statistics-collection/mdhd-zev>.



Communities in Charge: EV Charging Installation Incentive Program



December 5th, 2024

About GRID Alternatives



- At GRID, we believe that a successful transition to clean energy must include *everyone*.
- GRID's core areas of work include solar & storage, clean mobility, workforce development, and policy.
- GRID Alternatives helps underserved communities achieve their clean energy goals while providing financial savings and job training opportunities to improve their members' quality of life.



Image: Menominee Sustainable Development Institute
Photo Credit: Tribal Solar, Instagram, 8 August, 2024

Why Does My Community
Need Clean Transportation?

Air Pollution in the Inland Empire

| Ozone Ranking | State | County | WA |
|---------------|------------|----------------|-------|
| 1 | California | San Bernardino | 175.2 |
| 2 | California | Riverside | 128 |
| 3 | California | Los Angeles | 114.8 |
| 4 | California | Tulare | 103 |
| 5 | California | Kern | 87.5 |
| 6 | California | Fresno | 52.2 |
| 7 | Arizona | Maricopa | 47.7 |
| 8 | Colorado | Jefferson | 40.3 |
| 9 | California | Placer | 29.3 |
| 10 | Colorado | Douglas | 26 |

Image: *Most Polluted Places To Live Ozone Ranking*
Image Credit: *American Lung Association State of the Air 2024 Report*, American Lung Association, 2024.

- According to the American Lung Association, the Inland Empire has the **highest concentrations** of ozone pollutants in the country
- Continued exposure to particulate pollutants include: increased health risks, such as **decreased lung capacity and asthma**, disproportionate **environmental burden** for communities of color, and **wildlife & ecosystem degradation**.

Benefits of EVs and EV Charging Stations



Savings on gas & maintenance



Reduced greenhouse gas emissions



Clean air & health benefits

Background: What are the types of electric vehicle charging stations (EVCS)?



Level 1
120V
1-3 miles charged
per hour



Level 2
240V
10-25 miles charged
per hour



Level 3
Fast Charger
Up to 300 miles
charged per hour



COMMUNITIES IN CHARGE

Incentives for Level 2 EV Chargers
Where Communities Live and Gather

**Funding Wave 3 is open from November 14th, 2024
to January 31st, 2025 with \$30M in available
funding.**

Program Partners



Implementer



Funder



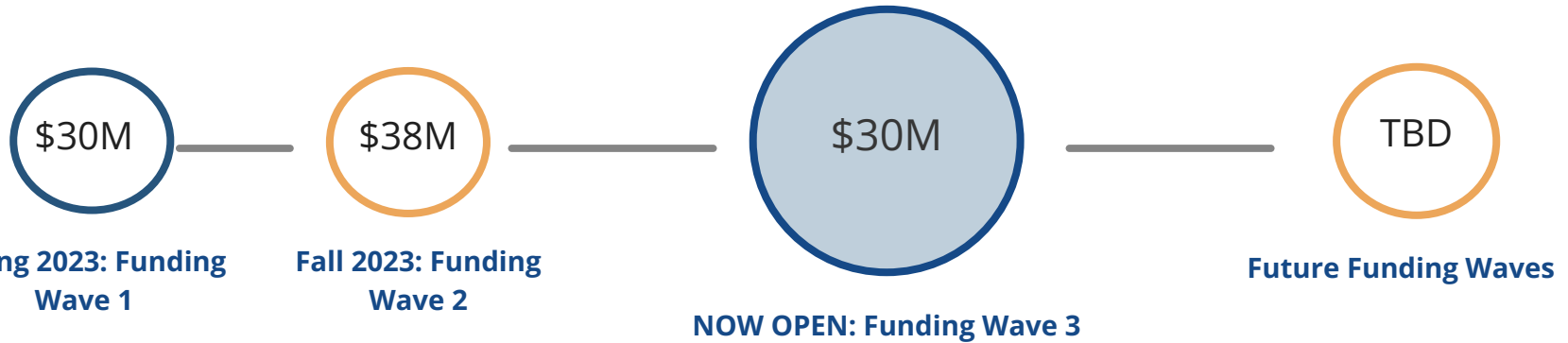
**Equity and Outreach
Partner**



TETRA TECH

**Application
Processing**

Communities in Charge Funding Waves



Funding Wave 3 Regional Allocations

| Region | Proportion of Funds |
|----------|---------------------|
| Northern | \$5,000,000 |
| Southern | \$10,000,000 |
| Eastern | \$6,000,000 |
| Central | \$9,000,000 |



Key Program Details

Rebate eligibility:

- Sites must install a **minimum of 4 connectors** & up to a maximum of 20 connectors at each project site
 - Workplaces and multi-family housing may install up to a maximum of 40 connectors
- Applicants may apply for multiple project sites
- Applicants must select from the lists of [eligible equipment](#) and [network providers](#)

Sample of eligible project costs:

- Level 2 charging equipment
- Planning and engineering design
- Electric panels and transformers
- Warranties from the OEM
- Service level agreements (SLAs) to maintain & repair the charging stations
- Networking agreements
- Demand management equipment and software
- Installation materials such as wires, conduit, etc.
- ADA upgrades required for the EV chargers
- On-site project signage

Project Site Eligibility

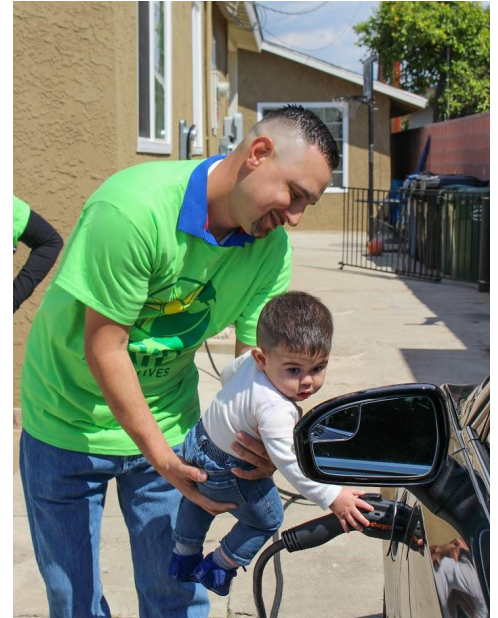
- Most commercial, local government, and multi-family project sites are eligible
- Charging may be private (ex. for employees or tenants only) or publicly available for all

Examples of eligible project sites:

- Government buildings: City halls, community centers, libraries, public parks
- Hospitals, clinics, and other healthcare facilities
- Houses of worship
- Parking lots and parking garages
- Vehicle yards for light-duty fleet vehicle charging
- K-12 schools, colleges, universities, and school district offices
- Workplace parking
- Multi-family housing (5+ units)

All applicants must be:

- The property owner, lessee, or authorized representative
- The one who incurs the cost of the project



Community Connections



Multi-Family Housing in Charge



Tribes in Charge



Healthcare in Charge



Schools in Charge



Congregations in Charge



Nonprofits in Charge



Local Governments in Charge



Workplaces in Charge

Incentive Amounts

























| Eligible Incentives for Level 2 EVSEs | Amount Per Connector |
|---|--|
| Base Incentive | Up to \$6,500 or 100% of eligible project costs, whichever is less |
| Multi-family Housing Project | Additional \$2,000 towards eligible costs* |
| Project site for Tribal government, Tribal entity, or non-governmental organizations serving Tribal communities | Additional \$3,500 towards eligible costs |

*An eligible Tribal Applicant whose Multi-Family Housing Project Site is located on Tribal lands may be eligible to receive \$12,000 per eligible connector towards eligible costs.

IMPORTANT NOTE: Incentive stacking is not permitted except applicants may participate in federal tax credit incentive programs or California Air Resources Board (CARB) Low Carbon Fuel Standard Program (LCFS)

Communities in Charge Application Process

Readiness Tiers & Application Checklist

| Required Documents Checklist | | Tier 1 | Tier 2 | Tier 3 | |
|------------------------------|---|------------------------------------|--|--|--|
| Required: |  | Site Verification Form |  |  |  |
| Optional: |  | Final Site Design |  |  |  |
| Not Applicable: |  | Issued Building Permit |  |  |  |
| | | Preliminary Site Design |  |  |  |
| | | Building Permit Application |  |  |  |
| | | Community Connection Documentation |  |  |  |
| | | Letters of Support |  |  |  |

Rubric Points

| Community Connection | Points Awarded (Max of 10) |
|--|---|
| Project Site is a defined Community Connection | 10 |
| Priority Populations Designation | Points Awarded (Max of 5) |
| DAC and LIC, or Tribal and LIC | 5 |
| DAC or Tribal Only | 4 |
| LIC Only | 3 |
| Local Support | Points Awarded Per Letter (Max of 3 per application) |
| Letter of Support from Community-Based Organization serving the same community as the Project Site | 1 |
| Maximum Possible Points Per Application: | 18 |

Note: All rubric scoring is secondary to your readiness tier.

Application Scoring: Readiness Tier & Rubric Score

| | Regions | | | |
|-------------|--|--|--|--|
| Award Order | Northern | Southern | Central | Eastern |
| First | <u>Readiness:</u> Tier 1 <u>Rubric Score:</u> Highest to Lowest | <u>Readiness:</u> Tier 1 <u>Rubric Score:</u> Highest to Lowest | <u>Readiness:</u> Tier 1 <u>Rubric Score:</u> Highest to Lowest | <u>Readiness:</u> Tier 1 <u>Rubric Score:</u> Highest to Lowest |
| Second | <u>Readiness:</u> Tier 2 <u>Rubric Score:</u> Highest to Lowest | <u>Readiness:</u> Tier 2 <u>Rubric Score:</u> Highest to Lowest | <u>Readiness:</u> Tier 2 <u>Rubric Score:</u> Highest to Lowest | <u>Readiness:</u> Tier 2 <u>Rubric Score:</u> Highest to Lowest |
| Third | <u>Readiness:</u> Tier 3 <u>Rubric Score:</u> Highest to Lowest | <u>Readiness:</u> Tier 3 <u>Rubric Score:</u> Highest to Lowest | <u>Readiness:</u> Tier 3 <u>Rubric Score:</u> Highest to Lowest | <u>Readiness:</u> Tier 3 <u>Rubric Score:</u> Highest to Lowest |

Preparing an application for Communities in Charge

1. Get to know your key partners

2. Get to know your site

3. Get to know your budget

4. Prepare your application & documents

Application Best Practices

- 1:** Connect with GRID Alternatives as early as possible for questions about getting started.
 - 2:** Work with an EVITP-certified contractor to get an initial site assessment. Many contractors will perform the site assessment for little or no cost.
 - 3:** If your site is eligible, apply as a Community Connection to boost your application score.
 - 4:** Review the application checklist to determine what readiness tier best fits your project timeline and needs.
- Bonus:** Support EV and Level 2 charger adoption in the Inland Empire by spreading the word about the Communities in Charge program.





Thank You!

Be sure to check our booth in the Assistance Lounge!

Fill out the interest form below to learn more:



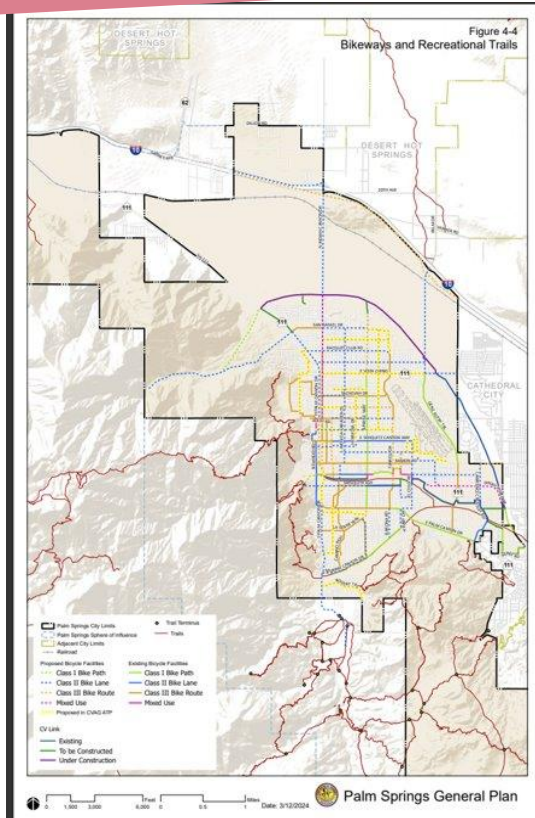
Clean Transportation in the City of Palm Springs

Lindsey-Paige McCloy
City of Palm Springs, Office of Sustainability

Who's Coming and Going?



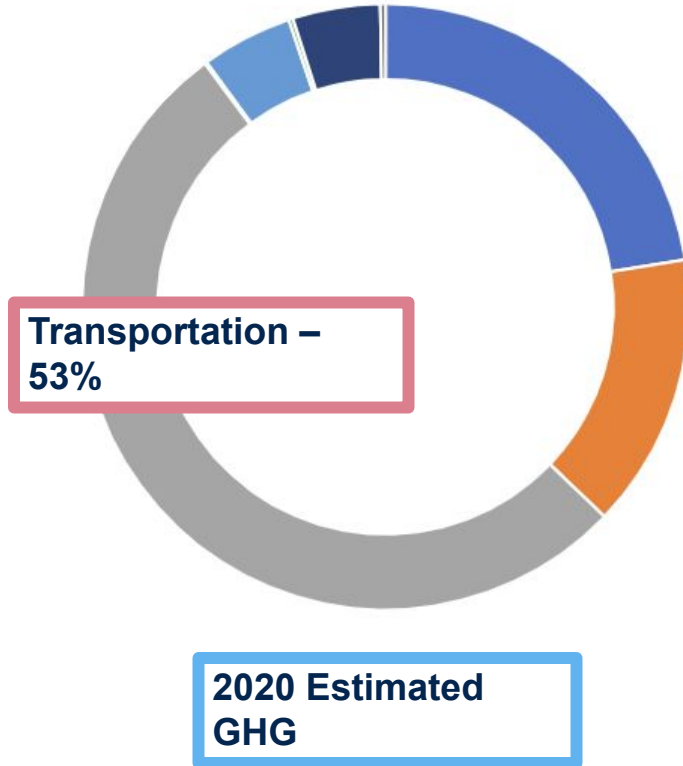
Transportation System Players



CVAG



Transportation Emissions and Goals

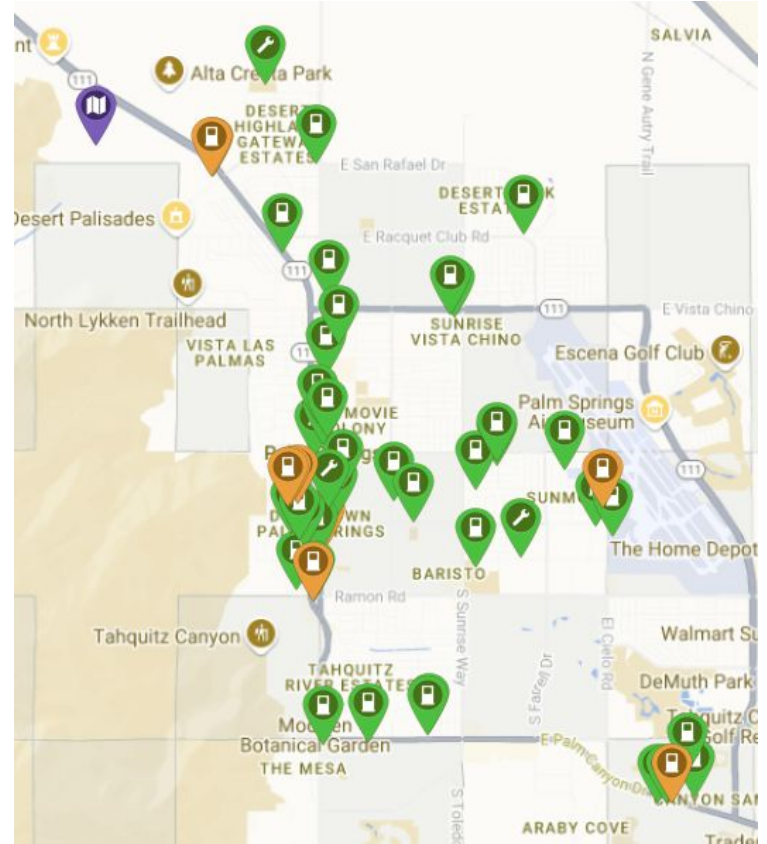


- Transportation makes up the largest single share of our emissions
- Citywide, we're in alignment with the State's goals of an 85% reduction by 2045 and a 40% reduction by 2030
- Reductions in total transportation GHG emissions to date can generally be attributed to improving fuel economy standards
- We're focused on the following areas:
 - Increasing active transportation
 - Increasing the share of EV trips for private vehicles and our City fleet



Project Example: Electric Vehicle Infrastructure

- High rate of EV ownership and rental
- City-owned chargers have been provided since 2011!
 - About half of the stations on this map are City-provided stations
 - Until summer 2022, all L2 stations provided free charging
 - Currently, about half of the City-provided chargers were installed through a license agreement
- 2023 and 2024 – intense focus on maintenance
 - Went from a 40% available rate to 90%
 - It Is Possible and You Can Fix Them



More Data! Transportation Habits

| Primary Mode of Transportation | |
|-----------------------------------|---------------|
| Car (Gas) | 68.84% |
| Electric or Hybrid Vehicle | 20.47% |
| Motorcycle / Moped | 0% |
| Public Transit | 2.79% |
| Bike | 2.79% |
| Walking | 4.19% |
| Rideshare (Uber, Lyft,..) | 0% |
| Carpool | 0.47% |
| Other | 0.47% |

| Secondary Mode of Transportation | |
|----------------------------------|---------------|
| Car | 15.81% |
| Motorcycle / Moped | 1.86% |
| Bike | 24.65% |
| Walking | 31.6% |
| Rideshare (Uber, Lyft,...) | 20.93% |
| Carpool | 8.37% |
| Other | 6.98% |



Project Example: Heat and Shade Study

- Our Climate Action Roadmap requires a shift away from single-occupancy fossil fueled vehicles toward active, shared, low-carbon transportation
- Our climate can make that difficult, especially due to the characteristics of our population
- We recently received grant funding to execute a study to understand:
 - How does heat impact our transportation network?
 - Is shade distributed equitably in our city?
 - How might we improve heat safety to encourage low-carbon transportation?



Thank You!

Lindsey-Paige McCloy
City of Palm Springs, Office of Sustainability





The Real Drivers of the Energy Affordability Crisis



Director of Energy &
Environmental
Programs
WRCOG
Casey Dailey



Senior Legislative
Manager
San Diego
Community Power
Patrick Welch



Director of Policy and
Planning
The Energy Coalition
Marc Costa



Environmental
Conservation
Supervisor
City of Colton
Jessica Sutorus



Colton Electric Publicly Owned Utility



Celebrating 130 years



City of Colton
ELECTRIC UTILITY
Your Neighborhood Power

Colton Electric Utility Introduction



Colton Demographics

Population- 56,000

Service Area- 16 sq. miles

16,500 -Residential Rate-payers

2700- Commercial Rate-payers



Colton is located along Interstate 10 in Southern California, about 60 miles east of Los Angeles.

WHAT IS A PUBLICLY-OWNED UTILITY?

Your Electric Utility in the City of Colton is not a private for-profit company, it is a **not-for-profit public utility**, which means we are focused solely on providing quality and competitively priced power service to our community.

- Publicly owned by **you**, the Colton community!
- Meeting the electricity needs of Colton's businesses and community **since 1895**
- Being public means Colton Electric has accountability & transparency with our **community**



WHERE DOES COLTON'S POWER COME FROM?

Before it gets to you, the Colton Electric rate-payer, the power for our city is pulled from many sources, with the goal of making Colton as **sustainable** as possible. These sources of power are called the **Power Mix**.

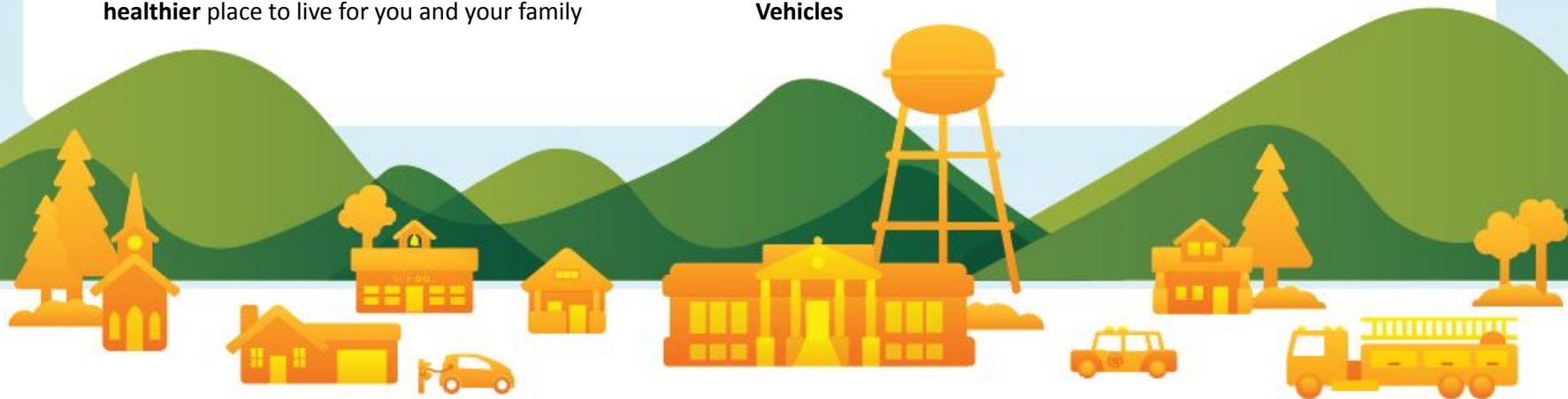


- 50% comes from **near-zero carbon** sources like solar and wind
- 88.5 MW total power
- Over 13 locations across 3 states
- For more information about where your power comes from, go to **coltononline.com**

WHAT ARE THE BENEFITS TO THE COMMUNITY?

As a Public Utility, Colton Electric is able to invest in programs and infrastructure improvements for our community that go beyond our primary goal of providing reliable and affordable electricity.

- 100% focused on **local goals**
- Boosts local **employment**
- Sustainability efforts make Colton a **safer, cleaner, healthier** place to live for you and your family
- Electric Utility revenues help fund **critical city services**
- Community investment in programs like **Low Income Community Solar** and charging stations for **Electric Vehicles**



How Colton Identifies Energy Equity Programs

Demographics are important - we have two ways to receive data:



1. From the Economic Development staff (Colton received data from ESRI)



2. State Department of Finance, in California Cal EnviroScreen 4.0



- Home Ownership Vs Rentals

- % of low-income and State data
- Housing stock: age of the homes

QUESTIONS?

Jessica Sutorus

Environmental Conservation Supervisor

jsutorus@coltonca.gov | 909.370.5561



City of Colton
ELECTRIC UTILITY
Your Neighborhood Power



Decarbonizing Homes and Buildings



Program Manager
ISD, County of Los Angeles
Frederick Chung



Planning and Rules Manager
South Coast AQMD
Heather Farr



Housing Services Administrator
City of Palm Springs
Ariel Tolefree Williams



Equitable Building Decarbonization Program Direct Install - GFO-23-404

Presented at the November 13, 2024 Business Meeting



Benefits to Californians



Reduce Greenhouse Gas Emissions from Buildings



Advance Energy Equity



Improve Resiliency to Extreme Heat



Improve Air Quality



Improve Energy Affordability



Support Grid Reliability



Support Local Workforce



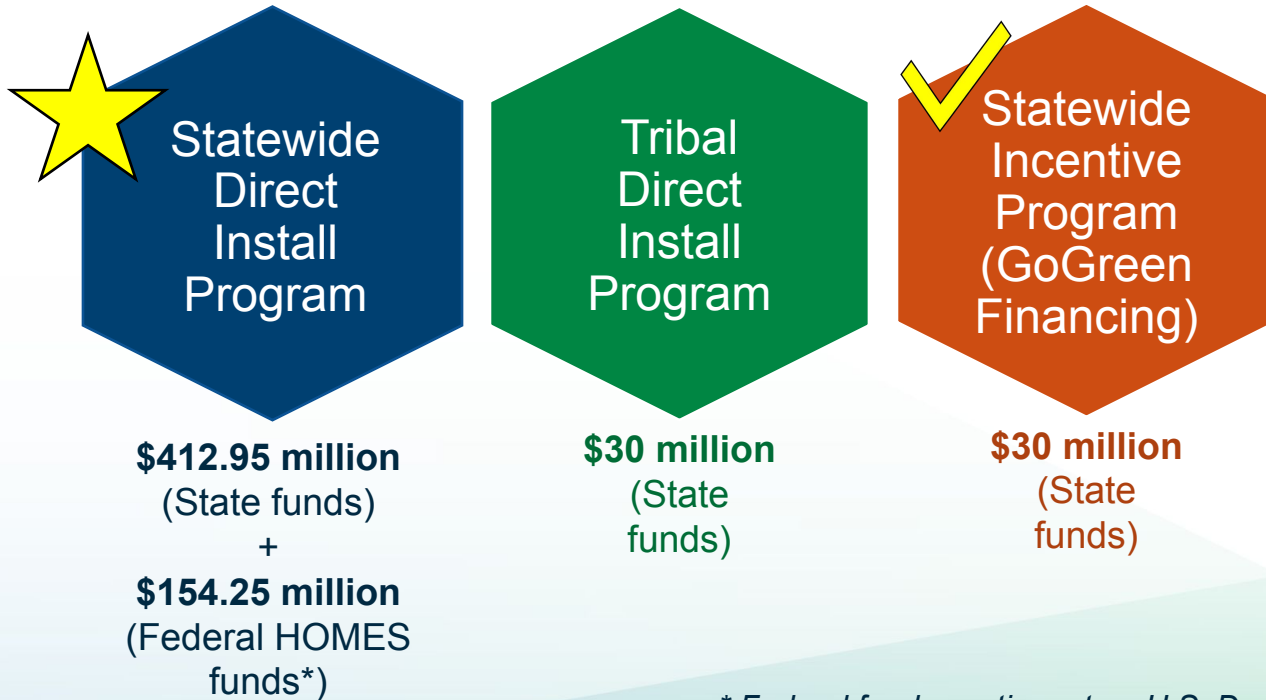
Building Decarbonization and Equity

Building decarbonization must prioritize low-income, disadvantaged, and tribal communities, who bear the highest energy burden and have suffered the most from historical environmental injustices, economic disparities, and the current climate crisis.

- Equitable Building Decarbonization Direct Install Program Guidelines



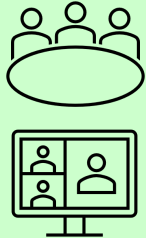
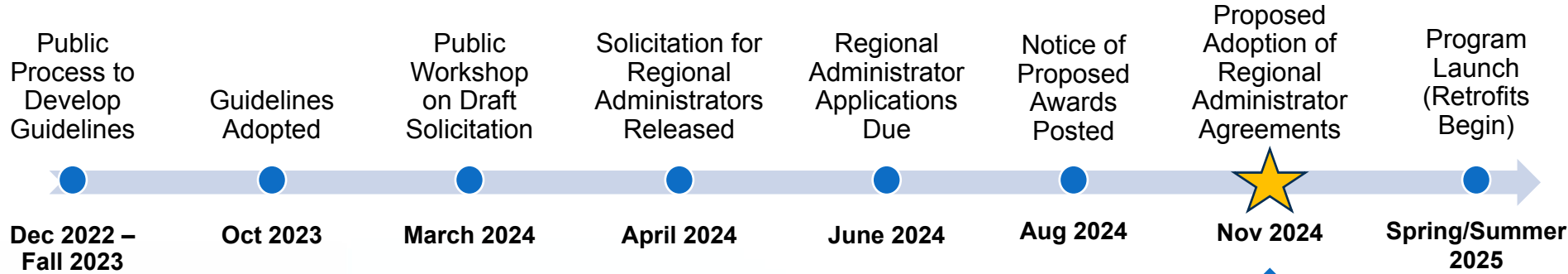
Equitable Building Decarbonization Program Subprograms



* Federal funds contingent on U.S. Department of Energy approval



Statewide Direct Install Program Timeline and Public Process



- 5 regional workshops
Fresno, Indio, Los Angeles, San Francisco, Santa Rosa
- 5 online-only workshops
- 2 tribal listening sessions


We are here!



Statewide Direct Install Program Overview

The direct install program will serve...



Low-Income Households

- Single-family
- Multifamily
- Manufactured and mobile homes



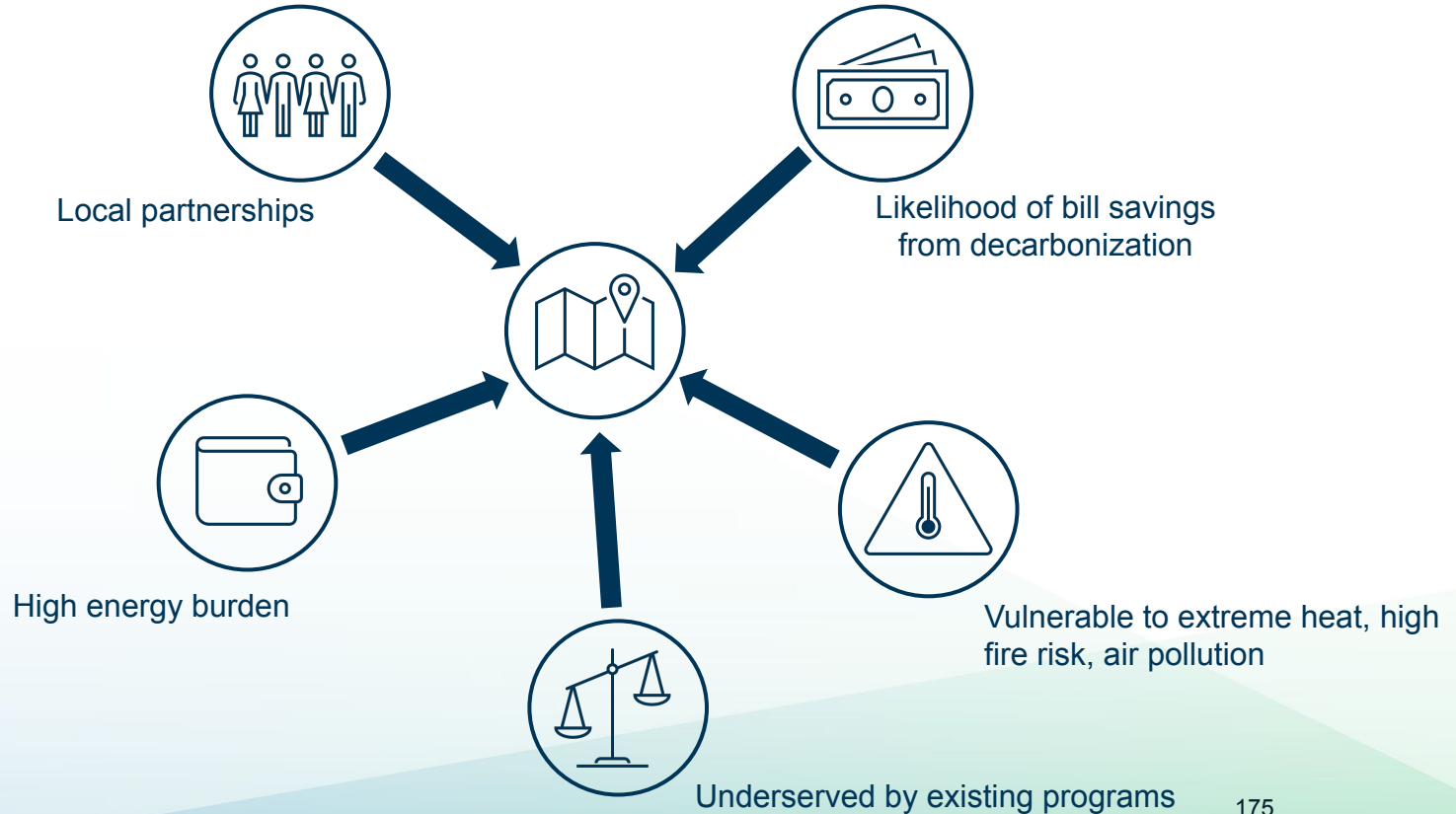
Underresourced Communities

- Disadvantaged communities
- Low-income communities

First phase of the program will serve “Initial Community Focus Areas”



Initial Community Focus Area Criteria





Eligible Measures

Heating and Cooling

- Heat pump
- Duct testing/sealing
- Smart thermostat
- Ceiling fan, whole-house fan

Building Envelope

- Insulation
- Air sealing
- Solar window film

Water Heating

- Heat pump water heater
- Low-flow showerheads and faucets

Cooking, Laundry

- Induction range or cooktop
- Electric clothes dryer

Air Quality, Lighting

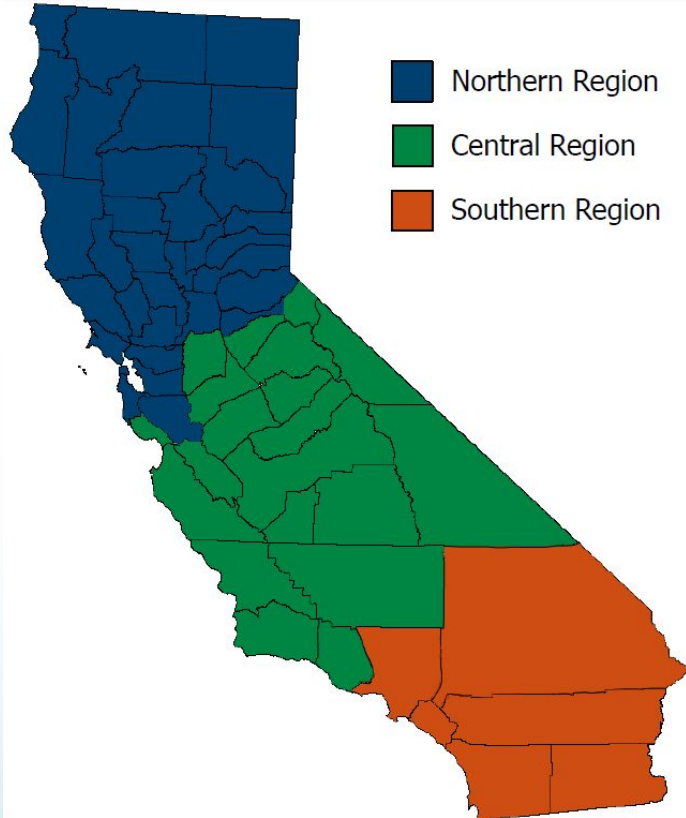
- Air filtration
- LED lights

Electrical and Remediation

- Electrical wiring and panel upgrades
- Remediation and safety



Regional Funding Allocation



| Region | Population of Underresourced Communities | Percentage of Statewide Direct Install Program Funds |
|--------------|--|--|
| Northern | 5.3 million | 23% |
| Central | 4.3 million | 19% |
| Southern | 13.6 million | 58% |
| Total | 23.2 million | 100% |



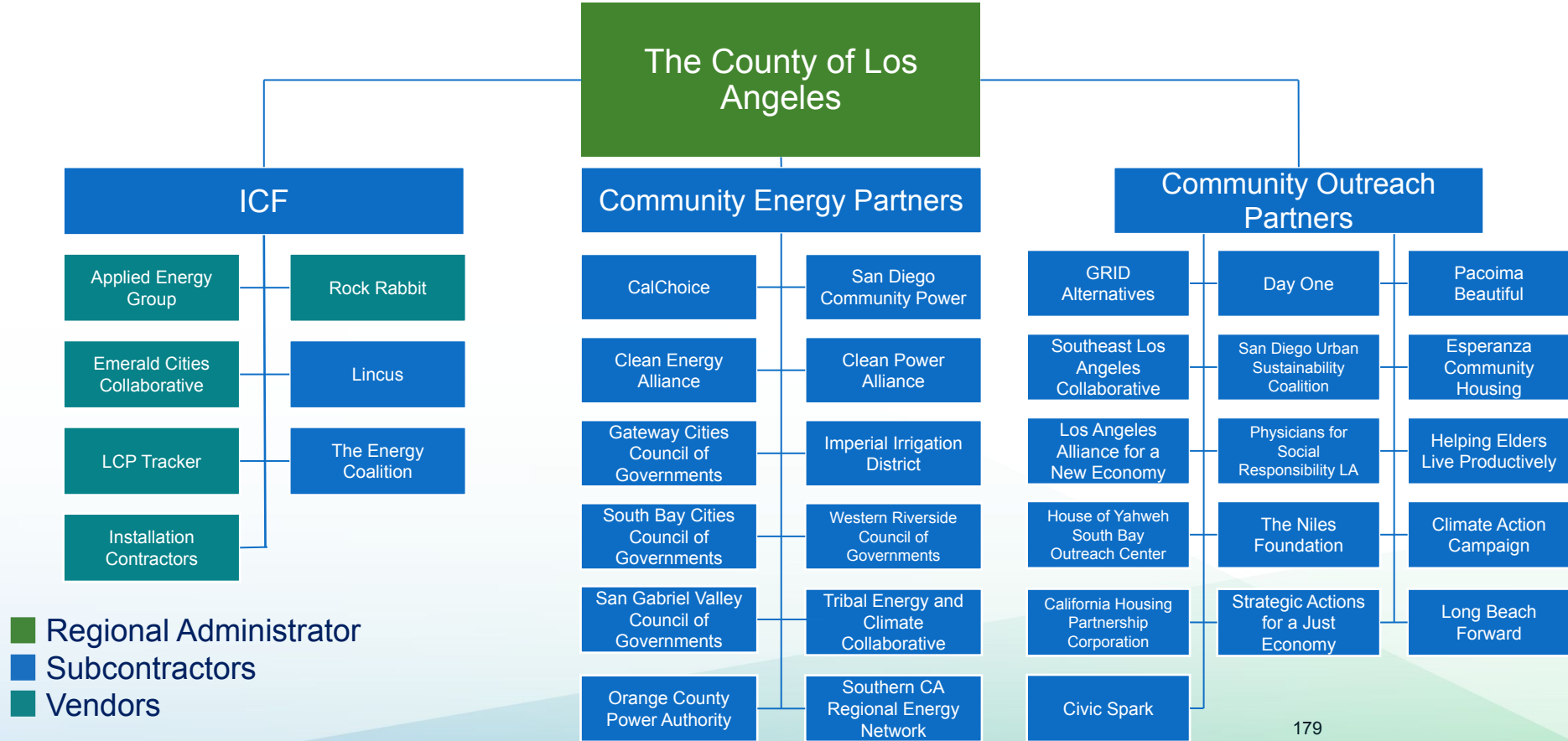
Proposed Awardees

| Region | Proposed Awardee | Proposed Funding: State | Proposed Funding: Federal* | Proposed Funding: Total |
|--------------|--|-------------------------|----------------------------|-------------------------|
| North | Association for Energy Affordability, Inc. | \$94,978,500 | \$35,478,190 | \$130,456,690 |
| Central | Center for Sustainable Energy | \$78,460,500 | \$29,308,070 | \$107,768,570 |
| South | County of Los Angeles | \$239,511,000 | \$89,466,740 | \$328,977,740 |
| Total | All Regions | \$412,950,000 | \$154,253,000 | \$567,203,000 |

* Federal funds contingent on U.S. Department of Energy approval

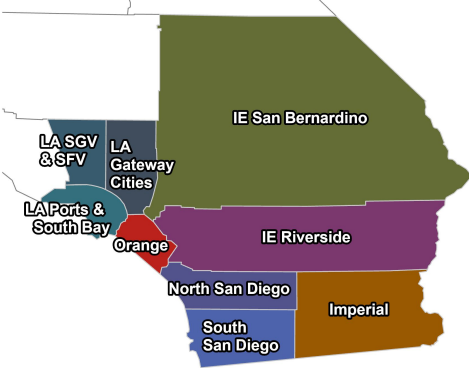


Southern Region: County of Los Angeles





Proposed Awardee, Southern Region: Los Angeles County



| | South San Diego | North San Diego | Orange County | LA Ports and South Bay | LA San Gabriel and San Fernando Valley | LA Gateway Cities | Inland Empire San Bernardino | Inland Empire Riverside | Imperial County |
|------------------------------------|---|--|--|---|--|--|---|---|--|
| Community Energy Partners | <ul style="list-style-type: none"> • SDCP | <ul style="list-style-type: none"> • CEA • SDCP | <ul style="list-style-type: none"> • OCPA | <ul style="list-style-type: none"> • CPA | <ul style="list-style-type: none"> • CPA | <ul style="list-style-type: none"> • CPA | <ul style="list-style-type: none"> • CalChoice • IREN | <ul style="list-style-type: none"> • CalChoice • IREN | <ul style="list-style-type: none"> • IID |
| Community Outreach Partners | <ul style="list-style-type: none"> • SDUSC • SCTCA • CHP • GRID • ECC • TEC | <ul style="list-style-type: none"> • SDUSC • SCTCA • Climate Action Campaign • CHP • GRID • ECC • TEC | <ul style="list-style-type: none"> • CHP • Climate Action Campaign • GRID • ECC • TEC | <ul style="list-style-type: none"> • SBCOG • PSR-LA • ECH • SAJE • LAANE • SELA • Long Beach Forward • HELP • Niles Foundation • House of Yahweh • CHP • GRID • ECC • TEC | <ul style="list-style-type: none"> • SGVCOG • PSR-LA • ECH • SAJE • Niles Foundation • Day One • Pacoima Beautiful • CHP • GRID • ECC • TEC | <ul style="list-style-type: none"> • GCCOG • PSR-LA • ECH • SAJE • CHP • GRID • TEC | <ul style="list-style-type: none"> • SBCOG • CHP • SCTCA • GRID • ECC • TEC | <ul style="list-style-type: none"> • WRCOG • CHP • SCTCA • GRID • ECC • TEC | <ul style="list-style-type: none"> • CHP • SCTCA • GRID • ECC • TEC |



Inquiries

For any Equitable Building Decarbonization Direct Install Program - Southern Region inquires, please contact Frederick Chung.

Frederick Chung

Energy & Environmental Services

County of Los Angeles – Internal Services Department

FChung@isd.lacounty.gov



South Coast Air Quality Management District Building Appliances Rules and Incentives

Regional Energy and Climate Hub
Inland Empire Workshop

Thursday, December 5, 2024

What is the South Coast Air Quality Management District?



- South Coast AQMD is an air pollution control agency
 - Includes Orange County and portions of Los Angeles, San Bernardino, and Riverside Counties
 - Covers an area of 10,743 square miles
 - Serves 17.5 million people with 11 million vehicles
 - Historically, have the worst air quality in the nation
- Responsibilities include
 - Controlling emissions from stationary sources (e.g., power plants, refineries, gas stations, painting facilities)
 - Permitting and inspecting over 28,000 affected businesses
 - Monitoring air quality and meeting federal and state air quality standards

Regional Air Quality

South Coast AQMD region fails to meet multiple national air quality standards

- Oxides of Nitrogen (NO_x) is the key pollutant that must be controlled to address air quality

Under Federal law, areas that fail to meet air quality standards by required deadlines face potential sanctions

- Most severe would be loss of millions of dollars in federal highway funds

Region needs to reduce over 67% NO_x emissions to meet air quality standards by the 2037 deadline

- Requires that we adopt zero-emission technologies to replace combustion *wherever feasible*

How We are Proposing to Improve Air Quality:



Proposed Amended Rule 1111 (PAR 1111)

Reduction Of NO_x Emissions From Natural Gas-Fired
Furnaces

**Residential and commercial
space heating**



Proposed Amended Rule 1121 (PAR 1121)

Reduction Of NO_x Emissions From Small Natural
Gas-Fired Water Heaters

Residential water heating

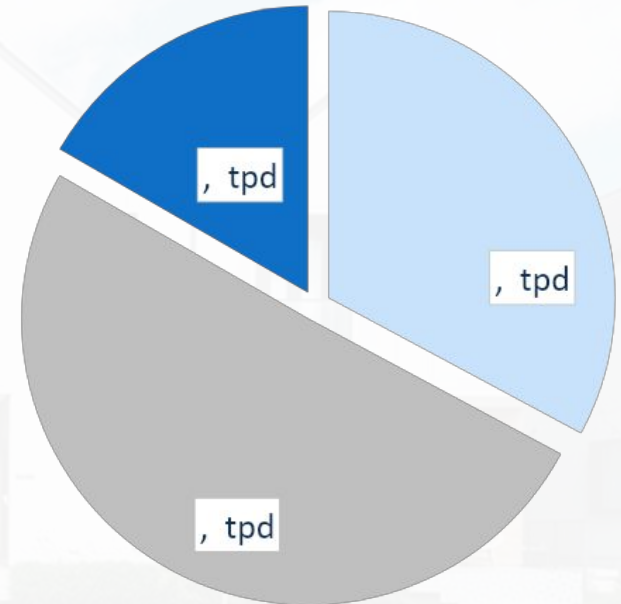
Preliminary Draft Rules and Draft Staff Report released on September 20th,
revised version released November 5th

Public Process Initiated September 2023, held seven Working Group Meetings

Why Regulate Space and Water Heating?

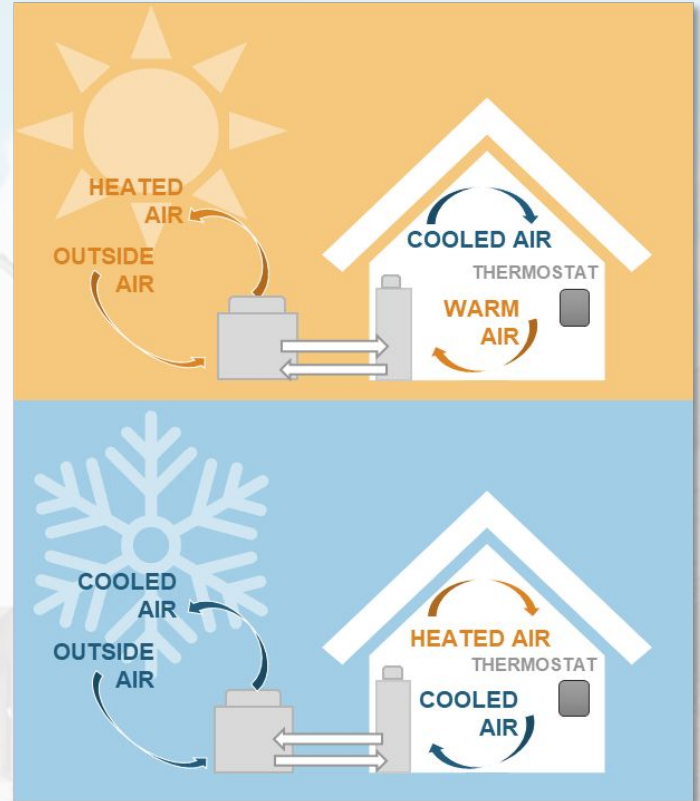
- ▶ Proposed rules will impact over 10 million units
 - 17% of stationary source NOx emissions
- ▶ Required by law to take all feasible measures to meet air quality standards
- ▶ Transition from combustion to zero-emission technologies

2018 NOx Emissions from Stationary Sources (tons per day)



Zero-Emission Technologies

- Heat Pumps are the most common zero-emission technology
 - A heat pump is an air conditioner that provides heating and cooling
 - Heat pumps can also provide hot water (heat pump water heaters)
 - Heat pumps run on electricity, which means they produce zero NOx at the point of use
- Other technologies include:
 - Electric resistance
 - Solar
 - Fuel cells



Proposed Compliance Schedule

- ▶ Transition to zero-emission standard based upon:
 - Future effective dates
 - Natural turnover (when the consumer chooses to replace *or* equipment breaks)
- ▶ Natural turnover estimated ~ 4 – 7 percent per year
- ▶ Considering delaying existing building compliance dates to 2029
 - Address cost and infrastructure concerns

| PAR | Type | Zero-Emission Start Date | |
|------|-----------------------------------|--------------------------|--------------------|
| | | New Buildings | Existing Buildings |
| 1111 | Residential & Commercial Furnaces | 2026 | 2028 |
| | Mobile Home Furnaces | 2028 | 2030 |
| 1121 | Residential Water Heaters | 2026 | 2027 |
| | Mobile Home Water Heaters | 2026 | 2030 |



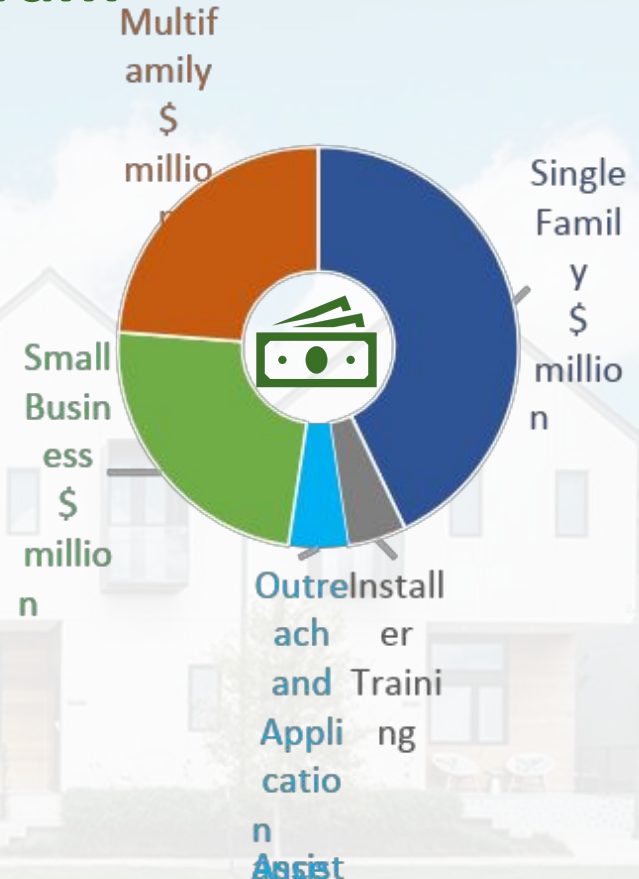
South Coast AQMD Go Zero Pilot Incentive Program

Cost is a barrier, so incentives are critical to an equitable transition to zero-emission appliances

The pilot program will include:

- Heat pump rebates for space and water heating
- \$21 million funding for the pilot phase
- **75% of funding allocated to overburdened communities**
- Higher rebates for overburdened communities
- Potentially future phases to implement lessons learned
- Potentially fivefold increase in future funding

✓ Program launch anticipated early 2025



Rebate Program Incentives



Single Family Rebate:
\$1,000 - \$3,000
per unit*



Multi-Family Rebate:
\$1,000 - \$4,000
per unit, up to
\$300,000 cap*



Small Business Rebate:
\$4,000 per unit

* Higher rebates for overburdened communities



South Coast AQMD Go Zero Pilot Incentive Program

Installer Training



Training will familiarize installers with plumbing, HVAC, and electrical work needed to install heat pumps



Selection of contractor will consider prior experience and training proposal maximize installer benefits

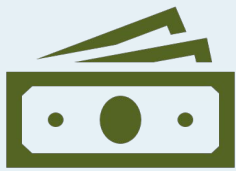
Outreach and Application Assistance



Outreach to overburdened communities to provide application assistance and stack other incentives



Selection of contractor will prefer disbursement of funding to reach the four-county jurisdiction



Availability of Incentive Programs

▶ Incentives are available for heat pumps, and may be layered together:

- **HEEHRA**, launched in November 2024, provides household incomes between 80% and 150% area median income (AMI) up to **\$4,000**
 - Households with incomes less than 80% AMI are eligible for up to **\$8,000**
 - Find out eligibility by using the pre-screening tool [here](#)
- **Federal IRA Tax Credits** provide up to **\$2,000** for heat pumps, more info [here](#)
- **TECH Clean California** provides **\$1,500** for heat pump HVAC, more info [here](#)
- **Comfortably California** provides incentives for heat pump HVAC, more info [here](#)
- **Golden State Rebates** provides incentives for heat pump water heating, more info [here](#)
- Many local/utility incentives are available, with more info on the **Switch is On website**
- Upcoming South Coast AQMD **Go Zero** rebates will provide **\$1,500-\$3,000** for heat pump HVAC and **\$1,000-\$2000** for water heating, along with application assistance

Incentive Stacking Example - HVAC

| | |
|---|---------|
| HEEHRA | \$4,000 |
| IRA Tax Credit | \$2,000 |
| TECH Clean CA | \$1,500 |
| Go Zero | \$1,500 |
| Total starts at \$9,000 | |
| + Plus other incentives from local, utility, etc. | |
| + Additional funding for income-qualified: +\$4,000 HEEHRA +\$1,500 Go Zero | |
| Starts at \$14,500 for income-qualified | |

Next Steps for PAR 1111 and PAR 1121 and Go Zero



Future Public Meetings

- Public Comment Period Open Until
 - [December 13, 2024](#)
- Stationary Source Committee
 - [December 20, 2024](#)
- Public Hearing
 - [February 7, 2025](#)
(subject to change)



Technology Check-in

- ✓ Prior to future zero-emission effective dates
- ✓ Reassess technology development, availability, and costs
- ✓ Potential recommendations to amend rule



Launch Go Zero Incentive Program

[Early 2025](#)



Links and Contact Information

To receive future updates on rulemaking and incentives via email newsletter:

Subscribe by checking the **Building Appliances** check box located under Rule Updates:

<http://www.aqmd.gov/sign-up>

For more information on current projects:

Please check out the Building Appliances webpage at the link below or the QR code here:

<https://www.aqmd.gov/home/rules-compliance/residential-and-commercial-building-appliance>



For questions on building appliances rules and incentives:

| | | |
|--|----------------------|--------------------|
| Peter Campbell, Air Quality Specialist | Rule 1111 | pcampbell@aqmd.gov |
| Jen Vinh, Air Quality Specialist | Rule 1121 | jvinh@aqmd.gov |
| Emily Yen, Air Quality Specialist | Go Zero, Rule 1146.2 | eyen@aqmd.gov |
| Yanrong Zhu, Program Supervisor | Rules and Incentives | yzhu1@aqmd.gov |
| Heather Farr, Planning and Rules Manager | Rules and Incentives | hfarr@aqmd.gov |
| Michael Krause, Assistant Deputy Executive Officer | Rules and Incentives | mkrause@aqmd.gov |

DECARBONIZATION BENEFITS LOCALS

ARIEL TOLEFREE-WILLIAMS

CITY OF PALM SPRINGS



City of Palm Springs

The City is a well-known resort destination with a year-round population of approximately 47,900 and a seasonal population that more than doubles.

With the resort amenities and heat Palm Springs is famous for, there is room for improvement with infrastructure, energy consumptions and energy costs.



What does Inequality look like?

High Energy Costs | 01

- Lack of affordability
- Need for community shared solar/ expanding energy storage.
- Need for leveled bill costs for CARE/FERA



02 | Residents with Fixed Incomes

- Fixed incomes / social security / disability
- Hospitality employees
- Retail employees
- Single incomes

Climate Crisis = Cost of Living Crisis | 03

- Rental/Utility Assistance
- Health Issues
- Dust pollution
- Heatwaves. over 100 days over 110*.
- Doesn't cool off at night, more cardiac arrest cases
- Right to cooling law (80*)

04 | Inefficient Buildings

- Are people comfortable and safe?
- Can mobile/ manufactured homes be updated?
- Parts of the City more in need than others?

REACH Codes

Will require SFH built before 2011 undergoing additions or remodels to make targeted energy efficient upgrades

Why

- Reduce GHG emissions by 80%
- Reduce energy & carbon use in new homes/buildings
- Supply 50% of energy from renewable sources
- Help PS be more climate resilient

Triggers

- Additions or changes to structural elements
- Change or rearrangement of walls or full height partitions of an existing building
- Modifications of an electrical system, heating or cooling or gas plumbing

Exemptions

- Anyone who receives CARE/FERA via utilities

REACH Codes in action

| | Building Vintage | | |
|---------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| | Pre-1978 | 1978 - 1991 | 1992 - 2010 |
| Permit Value | Target Score | | |
| All Projects | LED + Photosensors | LED + Photosensors | LED + Photosensors |
| \$10,000 - \$24,999 | + Water Heating Package | + Water Heating Package | + Water Heating Package |
| \$25,000 - \$49,999 | + Water Heating Package & 16 points | + Water Heating Package & 12 points | + Water Heating Package & 6 points |
| \$50,000 - \$99,999 | + Water Heating Package & 32 points | + Water Heating Package & 25 points | + Water Heating Package & 12 points |
| \$100,000 + | + Water Heating Package & 48 points | + Water Heating Package & 37 points | + Water Heating Package & 17 points |

| | | Building Vintage | | |
|-------------------------|--|--|--------------------|--------------------|
| Table 150.0-K ID | Measures | Pre-1978 | 1978 - 1991 | 1992 - 2010 |
| E1 | Lighting Measures | Mandatory | | |
| E2 | Water Heating Package | Mandatory for all projects with a permit value of \$10,000 or more | | |
| E3 | Air Sealing | 1 | 1 | -- |
| E4.A | R-38 Attic Insulation | 7 | 3 | 1 |
| E4.B | R-49 Attic Insulation | 8 | 4 | 1 |
| E5 | Duct Sealing | 9 | 10 | 1 |
| E6.A | New Ducts, R-6 Insulation + Duct Sealing | 17 | 13 | 5 |

Community Development Block Grant

City of Palm Springs receives about \$350,000 annually to be used towards residents under 80% AMI. The City grants each household up to \$25,000. This existing program would be easy to expand.

Grant Objectives

- Support LMI residents
- Create sustainable and viable urban areas
- Address code deficiencies

Grant Uses

- Replacing water heaters
- Updating electrical panels
- Replacing inefficient doors and windows
- Replacing inefficient HVAC
- Roof repair/replacement (cool roofs for MHs)
- Energy Efficiency upgrades



Multi-Family Developments

80% of multi-family developments in Palm Springs were built before 2011. 15% of these are income-based, where utilities continue to price residents out.

Goals

- Equity
- Affordability
- Community Resilience

Things to Consider

- Difficulty tying in solar on older/ larger developments
- Property Owner/ Management buy-in
- Upfront costs
- Edison's program, does it work for us?
- Does performance based path work better here? (Reduce emissions by 10% annually). In unit (prescriptive) vs performance
- Benchmarking required (HUD, buildings over 50K sqft does this already) to make changes



THANK YOU

Ariel Tolefree-Williams

ARIEL.TOLEFREE-WILLIAMS@PALMSPRINGSCA.GOV





Community and Energy Resilience



Realty/Planning Administrator
Morongo Band of Mission Indians
Karen Woodard



Program Manager, Energy
WRCOG
Daniel Soltero



Chief of Community Engagement
Desert Healthcare District
Alejandro Espinosa



REACH Inland Empire

December 5, 2025

**Morongo Casino Resort and
Spa**

**Karen Woodard, Realty and Planning
Administrator Morongo Band of Mission
Indians**

INTRODUCTION

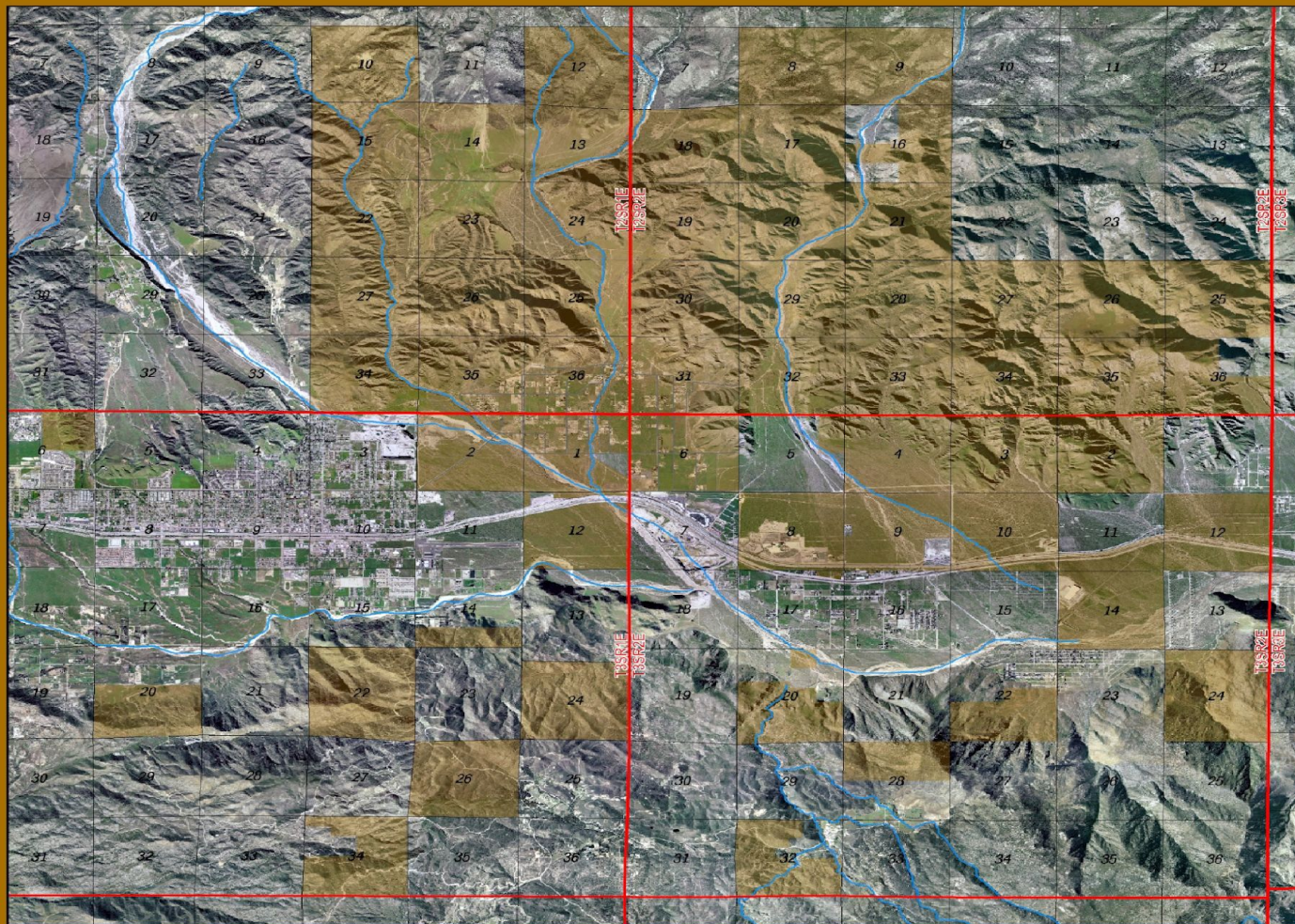
- Tribal government for 25+years
- Negotiated Self-Governance Compact with Office of Self Governance and Bureau of Indian Affairs
- Contract Realty and Title Services with 5 Tribes to manage their Tribal Lands
- Involved with negotiations on the SCE WOD upgrades and So Cal Gas transmission lines that are located on the Morongo Reservation
- Oversee the Tribes Realty and Title programs, Land Survey Department, Cultural Resources, Environmental Protection Department, Tribal Historic Preservation Office, Construction Services and the Economic Development and Planning Committee
- Involved in Morongo's Co-generation Plant, Strategic Energy Master Plan, Commercial and Residential Utilities, Energy Grants
- Involved with CEC SB100 Tribal Working Group and have



Morongo Band of Mission Indians

- The Morongo Band of Mission Indians (MBMI) reservation is in the Banning Pass area in Riverside County, California; between the San Geronio and San Jacinto Mountain ranges.
- Morongo Reservation is well-positioned on the I-10 corridor between the cities of San Bernardino and Palm Springs, and the Tribe as a sovereign government has the capacity to enter into competitive business agreements given the multitude of enterprises in the area.
- MBMI is the owner/operator of the Morongo Casino Resort & Spa, Morongo Travel Center, Hadley's Fruit Orchard, Tukwet Golf Course, Taco Bell and they lease land to several franchises.
- The Tribe has approximately 500+ Residents and several Civic Buildings.
- The Morongo enterprises attract hundreds of customers each





Lands of the Morongo Band of Mission Indians

**MORONGO
BAND OF
MISSION
INDIANS**



A SOVEREIGN NATION



0 1 2 3



Miles



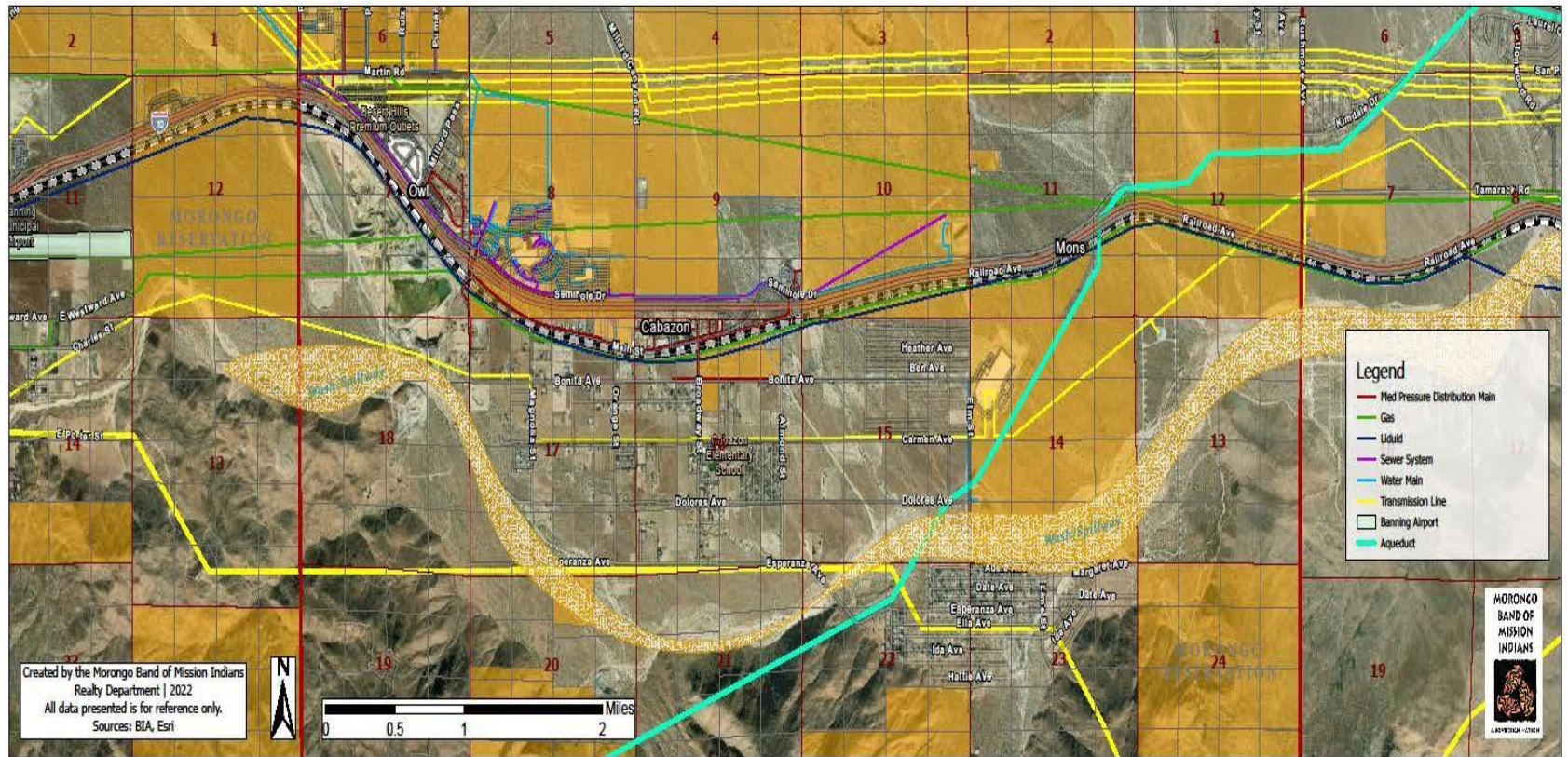
Created by the Morongo Band of Mission
Indian Environmental Protection
Department 1 Page 2008

**MORONGO
BAND OF
MISSION
INDIANS**



A SOVEREIGN NATION

- **Includes tribal trust lands, allotted (individual), tribally owned fee, Indian owned fee and privately owned fee parcels**
- **Morongo is located within a utility corridor and has several right of ways with Southern California Edison, So Cal Gas, T-Mobile, and Cal Trans.**
- **Right of Ways consist of major electric and gas transmission utilities that provide services to the Inland Empire and Southern California.**
- **Distribution systems provide services to Tribal Enterprises, Tribal Member Housing, government facilities and neighboring communities.**



Created by the Morongo Band of Mission Indians
 Realty Department | 2022
 All data presented is for reference only.
 Sources: BIA, Esri



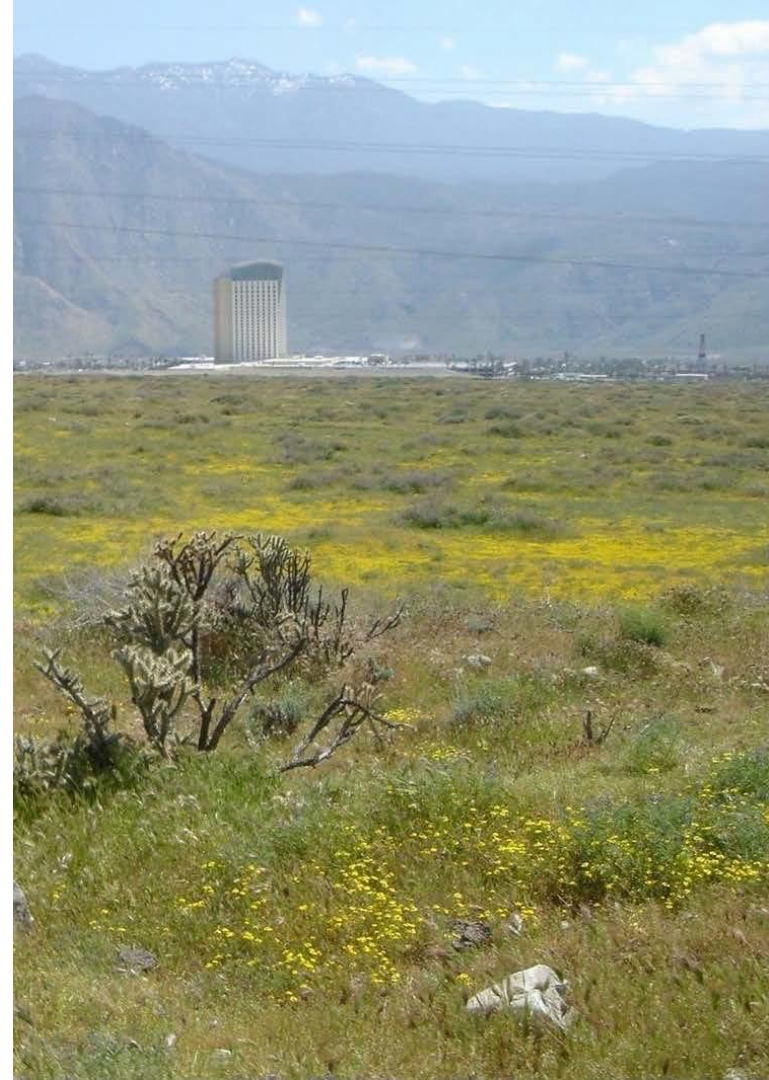
Legend

- Med Pressure Distribution Main
- Gas
- Liquid
- Sewer System
- Water Main
- Transmission Line
- Banning Airport
- Aqueduct



Morongo Transmission, LLC

- **MBMI - the first Native American tribe to be a participating transmission owner in the California Independent System Operator (ISO) footprint, creating a critical connection to help meet the state's green energy goals**
- **The newly constructed West of Devers powerline connects solar, wind, and battery resources located in eastern Riverside County and Imperial Valley to the grid**
- **MBMI is currently exploring ways to expand the capacity to bring more clean power to the grid**





Morongo Clean Energy Initiative





MBMI's Clean Energy Priorities

MBMI's Commitment to Energy Independence: MBMI is dedicated to launching new energy projects on its territory, aiming to enhance its self-reliance in energy and bolster economic stability over the long term.

Valuing Self-Governance and Autonomy: The Tribe greatly values its ability to govern itself. In response to current market fluctuations, the Tribe is taking steps to strengthen its independence. This includes developing sturdy infrastructure that serves the needs of its members and designing rate systems that position the Tribe favorably for entering lucrative and competitive commercial contracts

Focus on Reducing External Dependencies: A key long-term objective for MBMI is to lessen its reliance on outside groups, enhancing the Tribe's self-sufficiency. In pursuit of this aim, MBMI has established a Tribal Utility Authority, which is tasked with the creation of a Special Utility District.

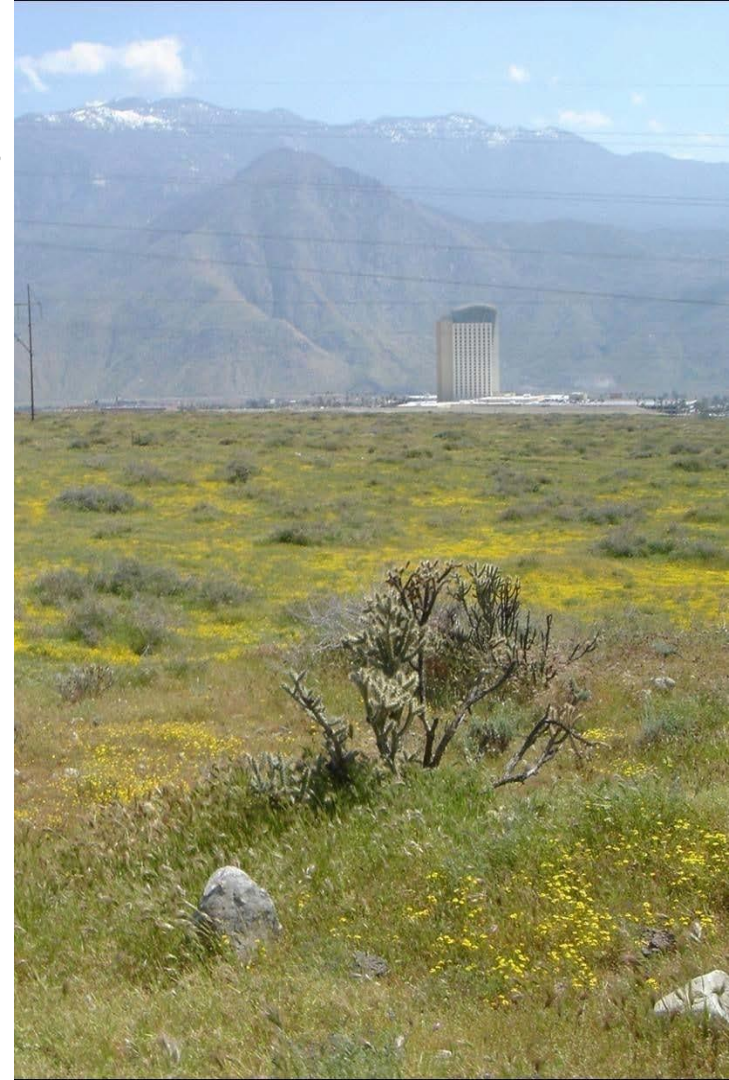
Morongo Renewable Energy Goals

- **Develop Renewable Energy Sources:** Invest in renewable energy projects like solar, wind, or hydroelectric power to reduce dependence on external energy suppliers and foster environmental sustainability.
- **Strengthen Tribal Utility Authority:** to manage energy resources, distribution, and infrastructure within the tribe's jurisdiction.
- **Create a Special Utility District:** Work towards the establishment of a Special Utility District that allows for more efficient and tribe-centered management of utility services.
- **Develop Resilient Infrastructure:** Focus on building and upgrading infrastructure to be resilient against natural and man-made disruptions, ensuring a stable and reliable utility service for the tribe.



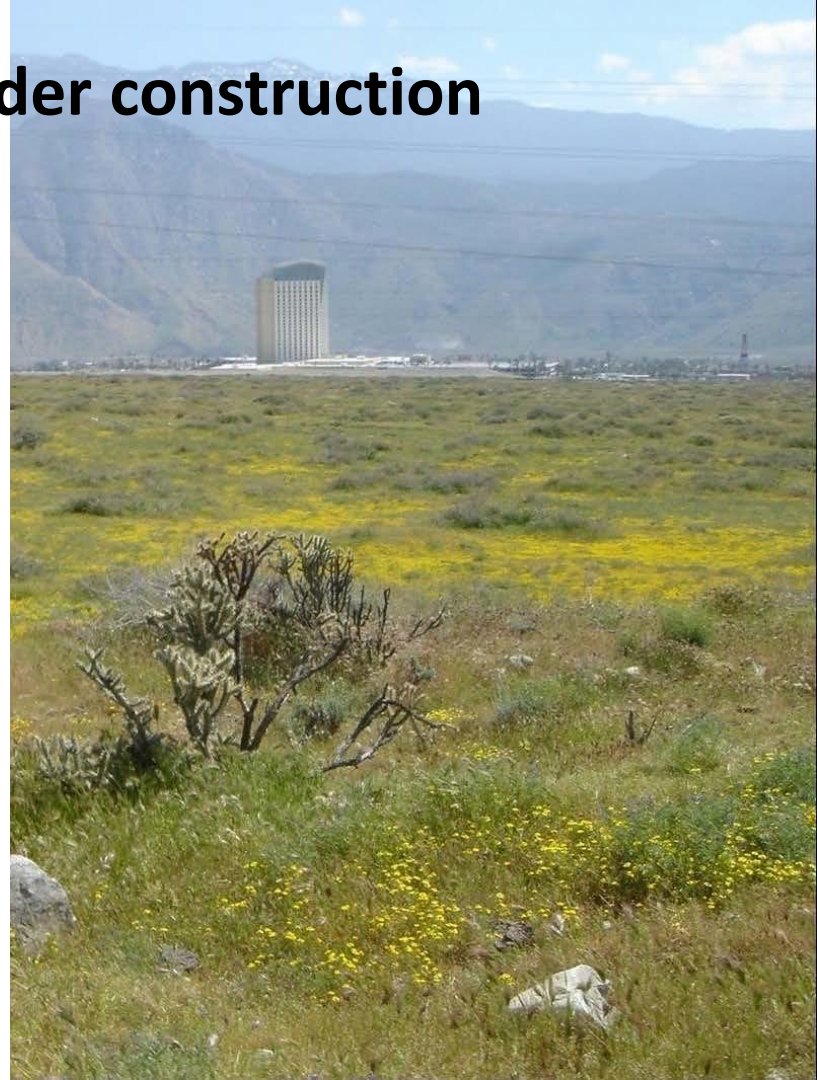
Morongo Renewable Energy Goals

- **Implement Competitive Rate Structures:** Design and implement rate structures that are financially viable, competitive, and beneficial for the tribe, allowing for sustainable economic growth.
- **Form Strategic Business Agreements:** Enter into profitable and strategic business agreements that align with the tribe's values and goals, enhancing economic opportunities and partnerships.
- **Increase Economic Self-Sufficiency:** Develop initiatives and businesses that increase the tribe's economic self-sufficiency, reducing reliance on non-tribal entities and external funding.



Current Clean Energy Projects under construction and in design

- Installation of 6.5 MW Carport Solar Panels
- Electrical Vehicle Charging Stations
- Co-generation Upgrades
- Battery Storage
- Micro Grids



LAND USE

- **Morongo's Planning Committee established a general plan in 2013, which designated tribal lands for:**
 - **Commercial**
 - **Industrial/light manufacturing**
 - **Residential**
 - **Mixed use**
 - **Open space**
 - **Culturally Sensitive**
 - **Environmentally Sensitive areas, such as endangered plant and animal species.**
- **Morongo has also prepared a master plan of the I-10 Corridor for the development of approximately 3600 acres.**
- **Utility corridor maps and compatible uses for renewable energy resources, such as wind, solar, battery storage, etc.**

**MORONGO
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MISSION
INDIANS**



A SOVEREIGN NATION

THE CLIMATE LANDSCAPE

- Climate Change is affecting all tribal communities from flooding, wildfires and extreme temperatures.
- Morongo's location being at the foothills of the mountain ranges, creating an alluvial fan, causes more stormwater runoff during large storm events, which can undermine roads, utility infrastructure, homes and tribal enterprises.
- Morongo experiences regular outages for PSPS events during wind and wildfire events.
- The PSPS events affect Tribal Enterprises, the Tribe has had to invest in several generators to keep the businesses running.
- Tribal Residents are having to invest in small generators or solar and battery back up.

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A SOVEREIGN NATION

Solutions

- Tribes are coming together to assist each other in finding funding sources, education and understanding the affects of climate change and renewable energy resources.
- The Tribal Energy and Climate Collaborative (TECC) is a program of the Southern California Tribal Chairman's Association (SCTCA), a non-profit organization that represents 25 federally recognized tribes throughout San Diego, Riverside, and Imperial County, which serve as the TECC Board.
- TECC was established in 2023 through state and federal grant dollars as a partnership between SCTCA and Prosper Sustainability. TECC builds upon SCTCA's 50 years of operation, and extensive intertribal collaboration on regional energy and climate issues.

**MORONGO
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A SOVEREIGN NATION

Solutions

- **TECC's mission is to deliver clean energy and climate change solutions through a thriving, sustained and complementary Tribal Government, community based organization, and for-profit partnership ecosystem, led by SCTCA Tribes, that serves Tribes and other communities.**
- **In its first year of operation, TECC is advancing strategic partnerships, conducting Tribal needs assessments, and obtaining capacity-building grants and other resources for Tribes, including from the Strategic Growth Council's Regional Climate Collaboratives program, the National Science Foundations Economic Engine, and the CPUC Equity, Education and Engagement grant.**

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A SOVEREIGN NATION

Solutions

- Participating in other workshops and conferences, such as California Climate and Energy Collaborative (CECC).
- Inland Regional Energy Network, Western Riverside Council of Governments
- Obtaining grants such as the BIA Resiliency grant to prepare studies on climate change and renewable energy
- Utilizing the Department of Energy and Office of Indian Energy grants to prepare additional feasibility studies on energy programs for reservations, such as microgrids, renewable energy opportunities, and battery storage systems.
- Morongo is currently creating a Strategic Master Energy Plan to assist in the preparation of resiliency plans, microgrids, other energy opportunities and adding infrastructure for economic development.

**MORONGO
BAND OF
MISSION
INDIANS**



A SOVEREIGN NATION

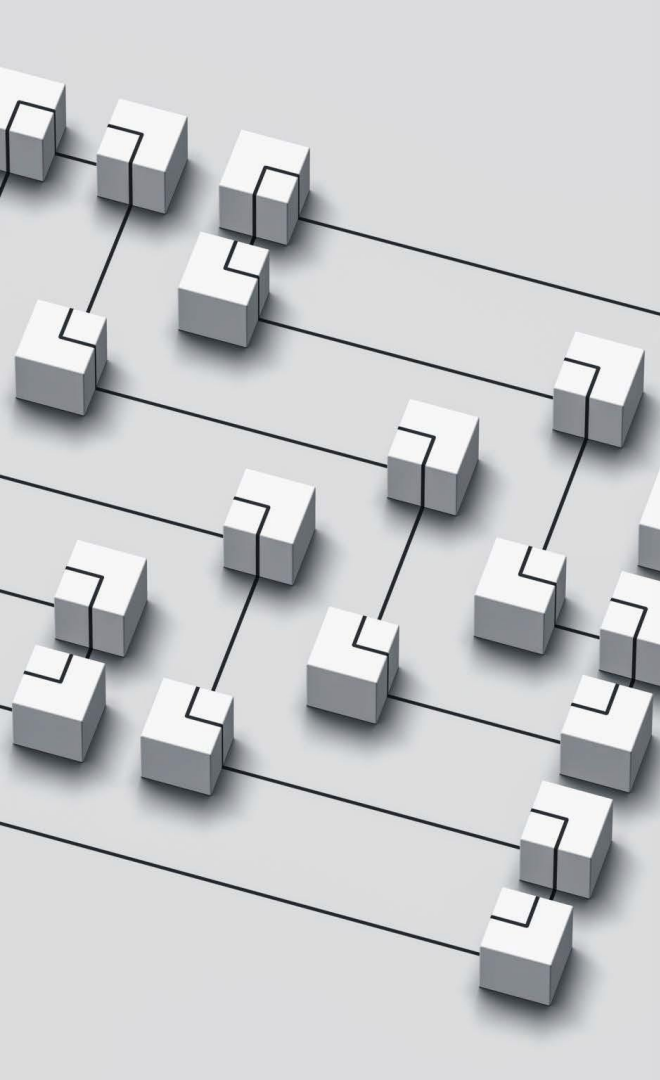
Challenges ahead. . .

- Capacity
- Grid development
- Upgrading current substations
- Adding substations
- Locating, funding and constructing Microgrids

MORONGO
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MISSION
INDIANS



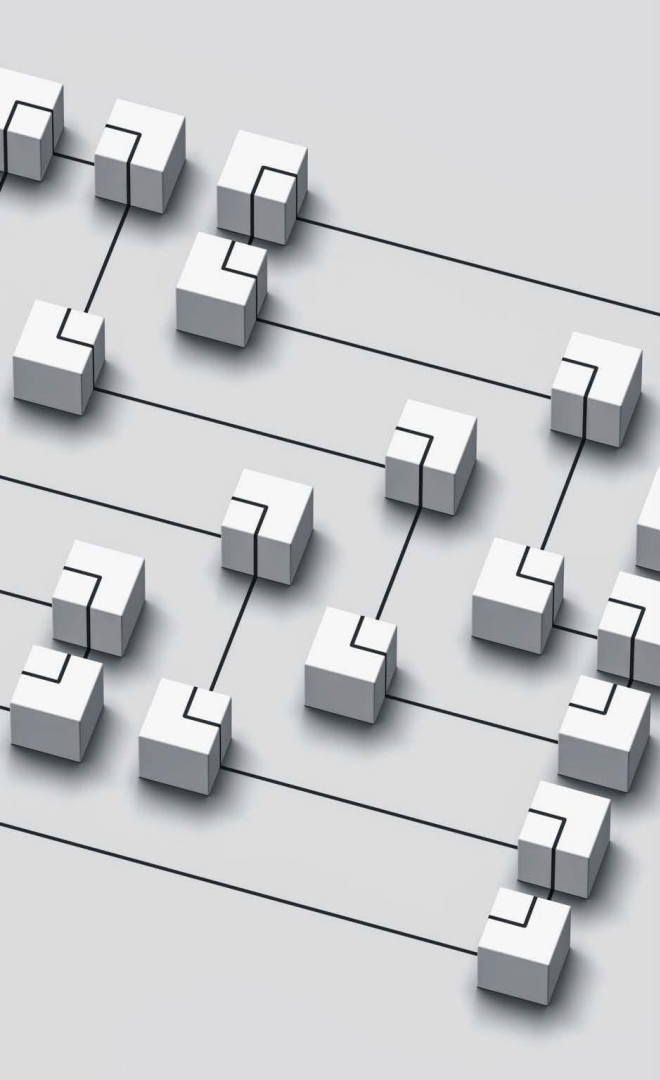
A SOVEREIGN NATION



Utility Infrastructure, Renewable Energy, and Micro Grids

• Interconnection Constraints

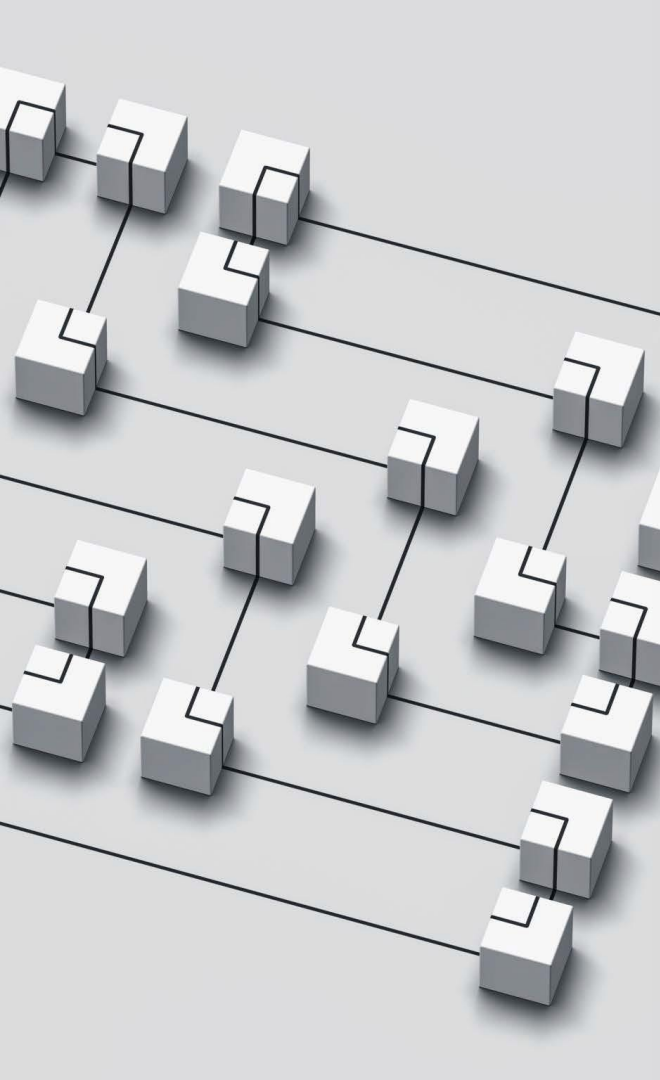
- San Bernardino-Devers 230kV Transmission Line Circuits
 - With current upgrades to the transmission lines, the circuits have very high thermal ratings that can accommodate a project of 500MW without triggering a reconductoring upgrade.
 - A 230kV line break interconnection will require a new SCE owned and operated 230kV, Breaker-an-a-half Switchyard with space for 8 bays.
 - Cost can be expected to range from \$30-\$50 million.
 - Devers substation, planned to be converted by SCE to 8kA station, which has a cost north of \$80 million
 - Additional costs for monitoring points, participation in the West of Colorado River CRAS/Inland Devers Extension, upwards of \$8 million.



Utility Infrastructure, Renewable Energy, and Micro Grids

• Interconnection Constraints

- Devers 230kV Transmission Line Circuits
 - Devers Substation is extremely congested, and interconnection would require a project-owned 230kV Gen-tie line from the project substation (project site) 8-12 miles to the 230kV Devers Substation.
 - Interconnection filing will need to go through CAISO's request window opening in 2025
 - Cost can be expected to range from \$18-\$30 million, not including land costs.
 - Project risk is high due to easement acquisitions, terrain and crossings, and physical transmission congestion around the Devers Substation.



Utility Infrastructure, Renewable Energy, and Micro Grids

• Interconnection Constraints

- Devers 115kV Substation
 - Has not been modeled but public data indicates that the 115kV substation can accommodate approximately 37MW of capacity.
 - This option would require a project-owned 115kV Gen-tie from the project substation (project site), 115kV Devers Substation is also extremely congested, however there may be open bays that can be outfitted with breakers and bus equipment to accommodate a 115kV gen-tie.
 - Cost can be expected to range from \$12-\$25 million, to install a gen-tie line, and the constraints that affected the tie-in for Devers, affect this project as well, additional costs of \$5-15 million, for upgrades to the Devers Substation.



DESERT HEALTHCARE
DISTRICT & FOUNDATION

Alejandro Espinoza, MPH
Chief of Community Engagement

What is the Desert Healthcare District and Foundation?

Mission

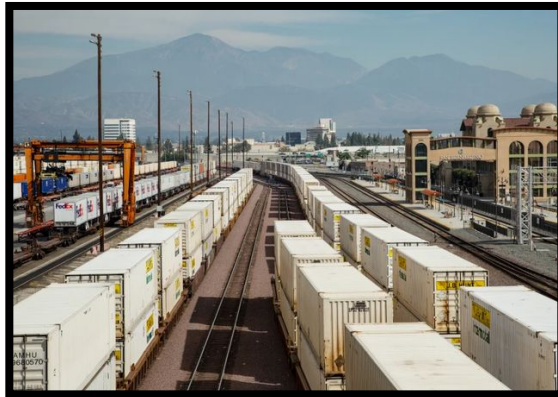
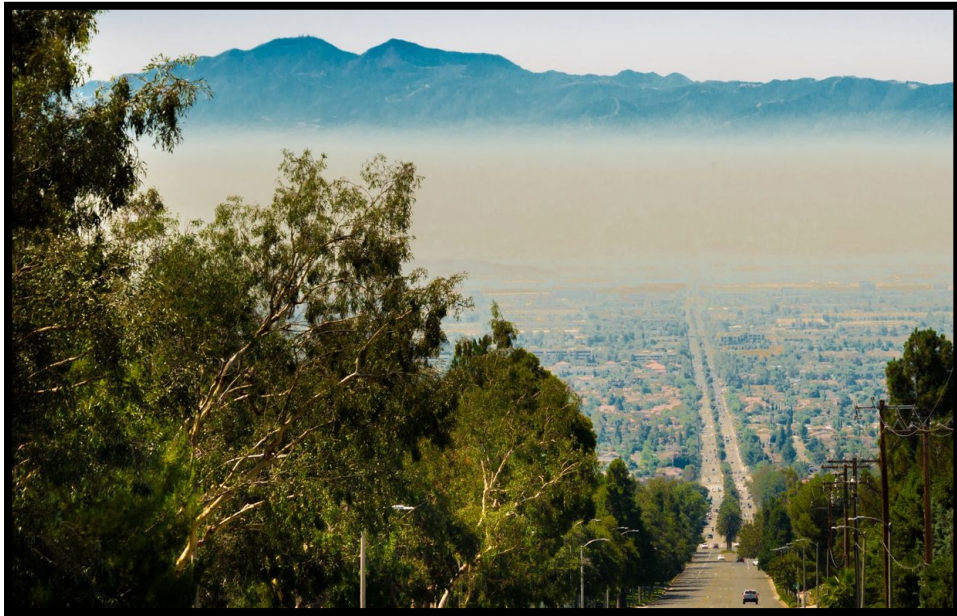
To achieve optimal health at all stages of life for all District residents

Vision

Connecting Coachella Valley residents to health and wellness services and programs through philanthropy and resources, health facilities, information and community education, and public policy



DESERT HEALTHCARE
DISTRICT & FOUNDATION



Earth Focus News & Public Affairs

Inland Empire Once Again Ranks As Worst in Nation for Air Quality

Diesel trucks pass through Van Buren Boulevard and Etiwanda Avenue in Mira Loma. On Thursday, April 21, the American Lung Association once again ranked San Bernardino and Riverside Counties as the worst for ozone pollution in the nation. | Anthony Victoria

KVCRR 91.9 npr Where you learn something new every day.

KVCR The Moth NEXT UP: 10

ABOUT US CALENDAR ELECTIONS ESPAÑOL EVENTS KVCRTV PROGRAMS SCHEDULE SUPPORT

Local News

Riverside and San Bernardino County top list of U.S. counties with the worst ozone pollution

Air pollution deaths

Researchers believe that poor air quality in Southern California leads to more deaths than any other part of the country. Analysts with New York University and the American Thoracic Society looked at pollution data from 2011, 2012 and 2013 for their estimates.

| Rank | Metro area | Deaths | Illnesses* |
|------|--|--------|------------|
| 1 | Los Angeles, Long Beach, Glendale | 1,341 | 3,255 |
| 2 | Riverside, San Bernardino, Ontario | 808 | 1,416 |
| 3 | New York, Jersey City, White Plains, NY-NJ | 282 | 977 |
| 4 | Phoenix, Mesa, Scottsdale, Ariz. | 283 | 598 |
| 5 | Pittsburgh | 285 | 533 |
| 6 | Fresno | 260 | 672 |
| 7 | Bakersfield | 241 | 333 |
| 8 | Houston, The Woodlands, Sugar Land, Texas | 229 | 661 |
| 9 | Cleveland, Elyria, Ohio | 196 | 487 |
| 10 | Cincinnati | 173 | 298 |

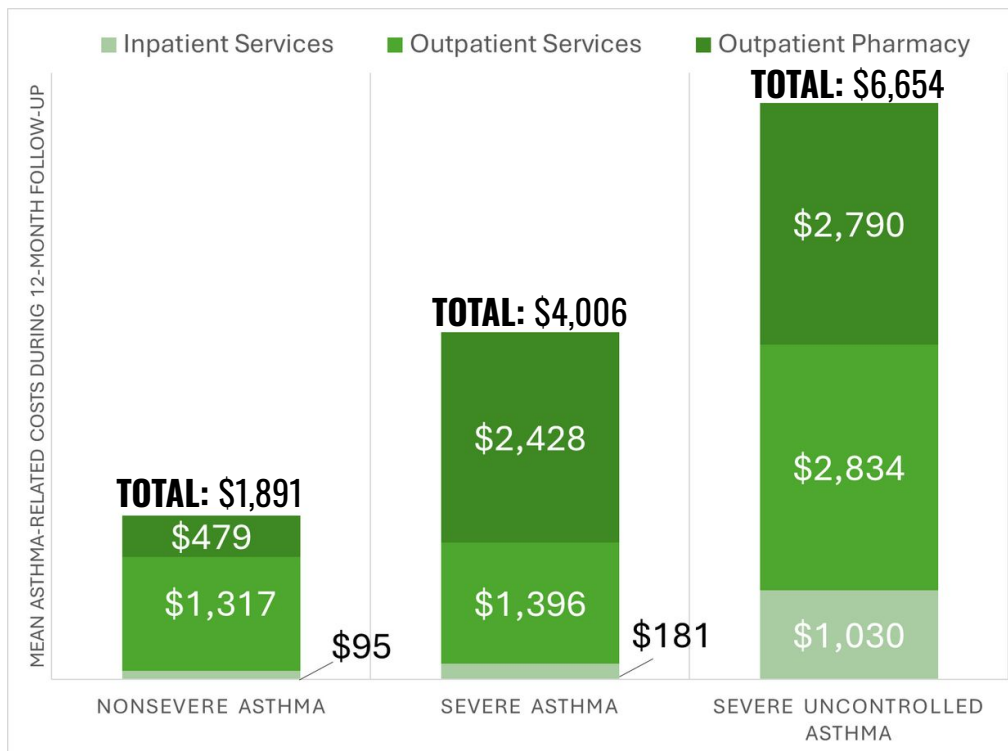
Other California metro areas

| | | | |
|----|--------------------------------------|-----|-----|
| 12 | San Diego, Carlsbad | 132 | 281 |
| 13 | Sacramento, Roseville, Arden, Arcade | 128 | 244 |
| 14 | Modesto | 130 | 262 |
| 17 | Visalia, Porterville | 117 | 185 |
| 19 | Stockton, Lodi | 100 | 189 |
| 31 | Santa Ana, Irvine | 64 | 140 |

Source: American Thoracic Society & New York University

* Heart attacks, chronic bronchitis, cardiac & respiration hospitalizations and ER visits.

HEALTHCARE COST BURDEN AMONG PATIENTS WITH SEVERE UNCONTROLLED ASTHMA IN THE UNITED STATES



*All patients in the study were followed during a fixed **12-month observational period** and outpatient services included emergency department visits, outpatient office visits, lab services, radiology services, and other outpatient services

Asthma is a chronic condition with ongoing costs associated with health care utilization and time lost from work presenting a significant burden on direct and indirect health care costs in the United States. Estimated annual costs are \$50.3 billion in medical costs and \$3 billion in losses from missed work and school days.

Overall healthcare costs are impacted by asthma severity, with severe asthma contributing to higher annual health care costs and indirect costs related to work loss than those of nonsevere asthma.

The difference between total costs of nonsevere asthma and severe uncontrolled asthma, during a 12-month follow-up, is **\$4,763**.

During the same 12-month period, individuals with severe uncontrolled asthma lost **259.3 hours** from work compared to 236.2 hours for individuals with nonsevere asthma.

ASTHMA ABSENCES AND LOST REVENUE IN CALIFORNIA SCHOOLS



In an average classroom of **30** kids, about **3** have asthma

Asthma is considered the chronic disease causing the highest number of school absences

LEADING TO:

- Diminished Achievement
- Reduced College & Career Opportunities
- Increased Welfare
- Incarceration Costs
- School Dropouts

Asthma-related school absences also causes school district revenue losses because some school funding in California is connected to student attendance

Asthma's Impact on Average Daily Allowance Revenue in California (2020 Report)

| Days Absent from School Due to Asthma | Percentage of Students with Asthma per Absence Category (95% Confidence Interval Range) | Asthma-Related Absences (95% Confidence Interval Range) | Estimated ADA Revenue Lost*(95% Confidence Interval Range) |
|---------------------------------------|---|---|--|
| 0 | 70.3 (65.1-75.4) | 0 | \$0 |
| 1 or 2 | 11.4 (7.3-15.5) | 141,438 (± 32,316) | \$3,704,193 (± 846,341) |
| 3 or 4 | 7.5 (5.2-9.9) | 183,590 (± 28,978) | \$4,832,603 (± 758,920) |
| 5-10 | 7.8 (4.4-11.1) | 354,246 (± 77,537) | \$9,324,747 (± 2,030,657) |
| 11+ | 3.0 (1.2-4.9) | 436,079 (± 159,227) | \$11,478,820 (± 4,752,455) |
| Total | | 1,115,353 (± 181,464) | \$29,210,560 (± 4,752,455) |

*Average Daily Allowance is the total days of student attendance divided by the total days of instruction

Students who miss ≥3 school days due to asthma account for \$26 million of lost revenue

On a statewide basis, the 36% of students with asthma absences who missed ≥5 school days annually due to this condition accounted for 71%, or \$21 million of the asthma-absence revenues lost by California's 20 largest school districts

Costs of Environmental Health Conditions in California Children



Asthma

Environmental factors: mold, dampness, second hand smoke, chemical cleaners, animal dander, dust, pests, air pollutants, traffic proximity.



nearly **1 in 3** cases could be prevented if environmental hazards were reduced to their lowest levels.

Saving...

\$208 million each year.



Preventing...

\$6 million in losses over the lifetime of all children born in a single year.



Asthma in California children

| | |
|-----------------------------------|-------------|
| Children with asthma: | 926,000 |
| ER visits per year: | 72,464 |
| Hospitalizations per year: | 10,715 |
| Treated cases of asthma per year: | 530,100 |
| Deaths per year: | 14 |
| Missed school days per year: | 1.3 million |

Total asthma costs

| | |
|---|-----------------------------|
| Directs costs (medical care): | \$869 per case |
| Indirect costs (lost parental income): | \$175 per missed school day |
| Potential earnings from years of life lost: | \$21 million |

See the full report: www.phi.org/CEHTPKidsHealthCosts



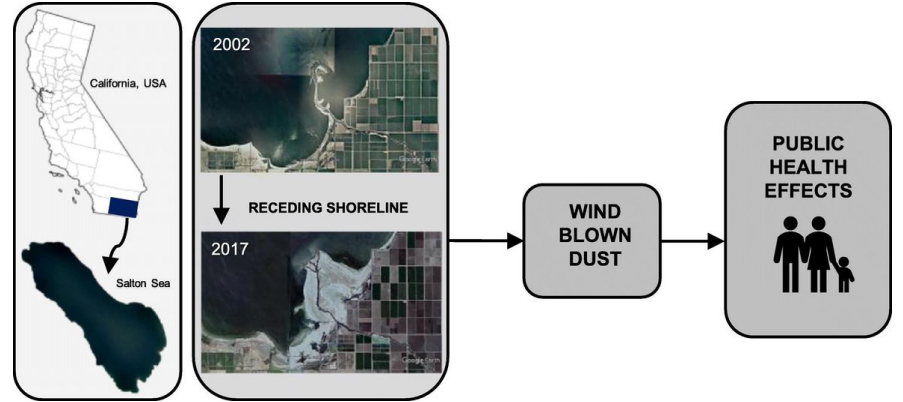
CALIFORNIA ENVIRONMENTAL HEALTH TRACKING PROGRAM

Figure 4

Salton Sea Management Program Overview 2018-2028



LAO



Strategic Plan Priorities (2021-2025)

- Goal 1: Proactively increase the **financial resources** DHCD/F can apply to support community health needs
- Goal 2: Proactively expand community **access to primary and specialty care services**
- Goal 3: Proactively expand community access to **behavioral/mental health services**
- Goal 4: Proactively measure and evaluate the **impact** of DHCD/F-funded programs and services on the health of community residents
- Goal 5: Be responsive to and supportive of selected community initiatives that **enhance the economic stability** of the District residents
- Goal 6: Be responsive to and supportive of selected community initiatives that **enhance the environment in the District's service area**
- Goal 7: Be responsive to and supportive of selected community initiatives that **enhance the general education** of the District's residents

Environmental Health Projects



AB-617: Develop and implement new strategies to measure air pollution and reduce health impacts, alongside community members and key stakeholders.



Public Health Institute: Coachella Valley air quality assessment and health impact analysis.



SCAQMD-Air Quality Academy: In partnership with Alianza CV, community members are being empowered to learn more about air quality and install an air monitor in their home to get hyper-local data.



CONCUR, Inc: Develop an Air Quality Emergency Communication Plan to coordinate communication between fire response agencies, CVUSD, and families.

POLICY ACTIONS AND STRATEGIES

COACHELLA VALLEY SHORT-TERM ACTIONS AND STRATEGIES



IDENTIFY and ADDRESS resident needs for healthcare access and clinical services

- Evidence shows that the most vulnerable residents may be living with undiagnosed and unmanaged respiratory symptoms
- Strategies to address include:** growth in community relationships/trust, target health insurance barriers, deeper reach into high-risk areas, and improved diagnosis and management of air quality-related health conditions



Continue to ADVANCE HEALTH EQUITY throughout all policy arenas

- Leveraging air quality planning and policy to benefit the social and economic well-being of low-income communities will provide more impactful public health benefits than reducing pollution alone
- Strategies to address include:** develop and sustain long-term relationships and collaborations with local residents, orgs., businesses, and gov. entities and advocate for the development of equitable policies

Source: Tracking California - Policies and Strategies to Improve Air Quality and Public Health in Coachella Valley

POLICY ACTIONS AND STRATEGIES

COACHELLA VALLEY MEDIUM-TERM ACTIONS AND STRATEGIES



ACCELERATE organizational emission reductions

- The South Coast Air District notes there is no viable pathway to achieve ozone attainment by 2037 other than widespread adoption of zero-emission technologies for all stationary and mobile sources
- Strategies to address include:** an org. can lead the community by advancing internal emissions reductions, including an audit of existing emissions and the acceleration of zero and low emissions technologies throughout its operations



DEVELOP collaborative relationships to **ADVANCE** emission controls

- Organizations in positions of power are well suited to collaborate and engage with a diverse group of stakeholders to address air quality improvement planning and implementation efforts
- Strategies to address include:** identify community needs, pursue and monitor air quality goals in emission reduction plans, and prioritize emission reduction initiatives (Ex. home weatherization, electric vehicle access/infrastructure)

Source: Tracking California - Policies and Strategies to Improve Air Quality and Public Health in Coachella Valley



Questions?

Alejandro Espinoza, MPH , CHES

aespinoza@dhcd.org



Lunch

12:45 - 1:45pm

Marketplace



Plenary Discussion: Groundset

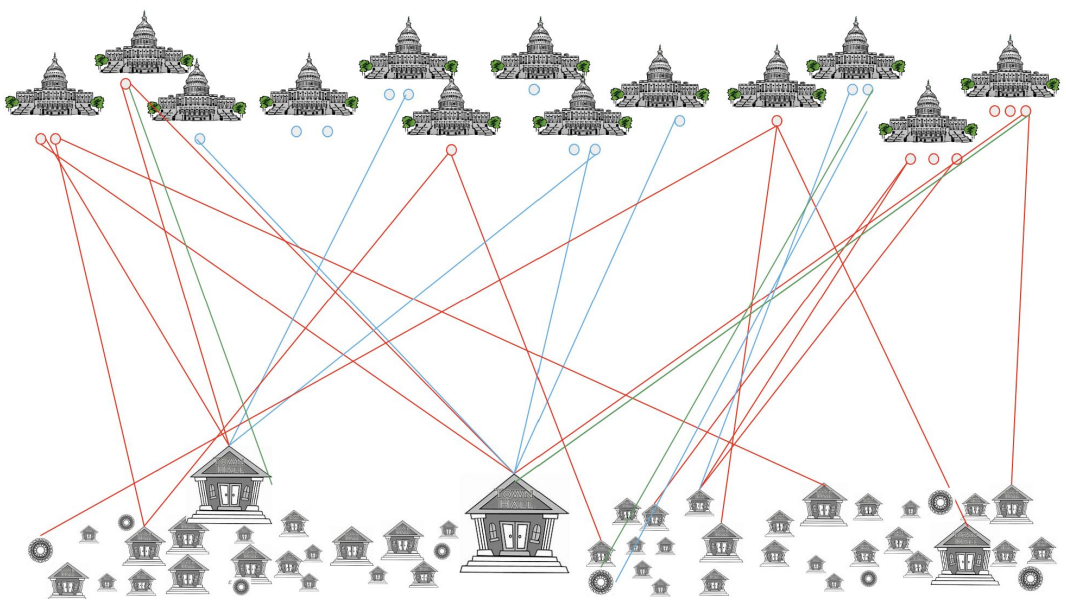
**Streamlining and improving engagement, technical assistance
and funding to communities**

Sean's slides



Plenary Discussion: Groundset

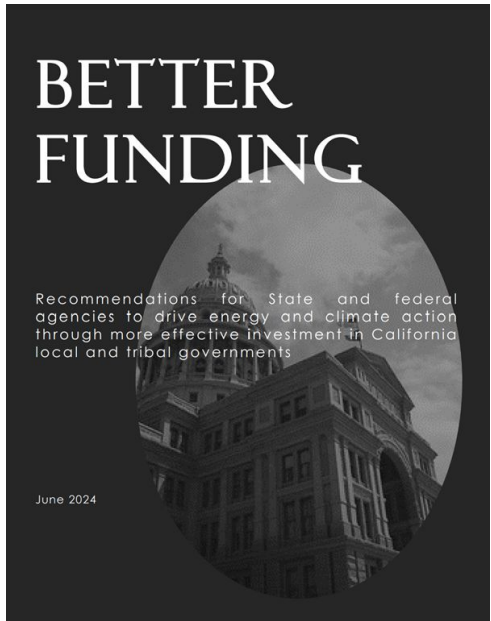
Streamlining and improving engagement, technical assistance and funding to communities





Plenary Discussion: Groundset

Streamlining and improving engagement, technical assistance and funding to communities



Reform, organize or replace the existing marketplace of traditional grant, TA, and engagement systems

Key Gap: Accessible funding that meets needs and doesn't extract too much capacity to pursue

Internal

External: public grants or contracts, tax credits/incentives, financing, philanthropy

Also a massive cost ...

Planning and implementation dollars, **internal capacity**, political will, understanding of needs/best practices, data access, plans/studies, external partners and TA (trusted, lasting)

Implement projects, policies, and programs

Community-Led & Place-based

State/Fed Regulation & Industry

Rapidly reduce emissions and adapt to build resilience

Goal: Avoid the worst impacts of climate change on CA communities

BUT HOW?



Plenary Discussion: Groundset

Streamlining and improving engagement, technical assistance and funding to communities

BETTER FUNDING

68 ideas to tune up traditional public funding vehicles by improving ...

- Pre-Application Engagement
 - Funding Program Design
 - Applications from State on Behalf of Tribal and Local Governments
- Applications
 - Solicitation Processes & Technical Assistance
 - Program Eligibility
 - Application & Administrative Requirements
- Post-Award Processes

OR
BETTER
YET

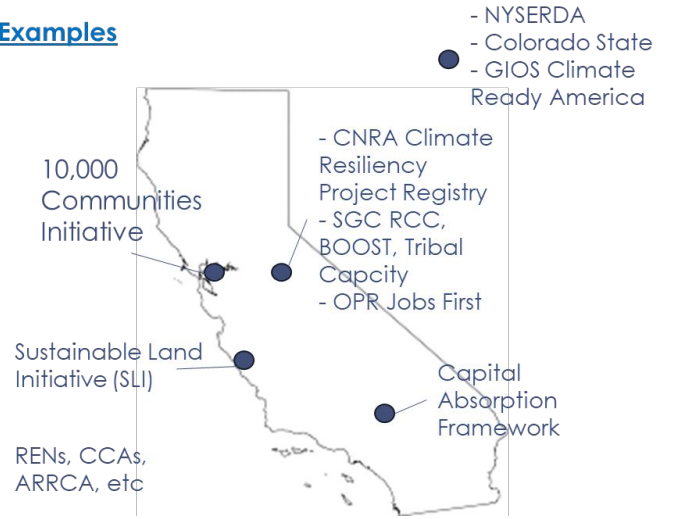
IDEAL FUNDING

One big idea to design a new, user-oriented public funding vehicle that...

- Fund real, real-time community needs without excessive engagement
- Give more than one chance to projects through a flexible, rolling "queue"
- Uses State and federal capacity to collect, evaluate, and help develop investible projects, and match to sources regionally
- Standardize, minimize, and streamline front-end proposal, contracting, and reporting requirements

A growing number of thought leaders seem to be landing on a combination of central funding queue supported by lasting regionally-based TA

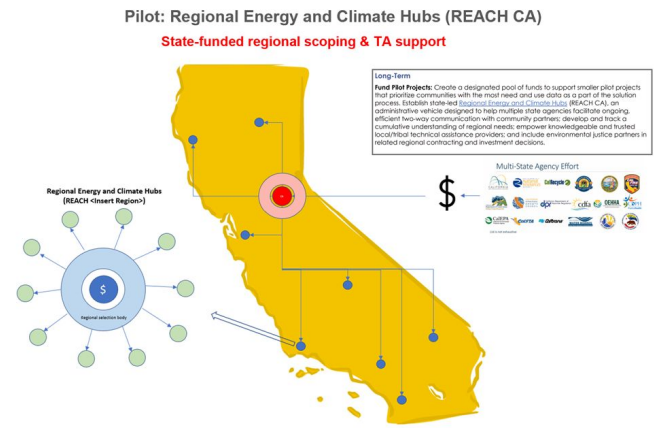
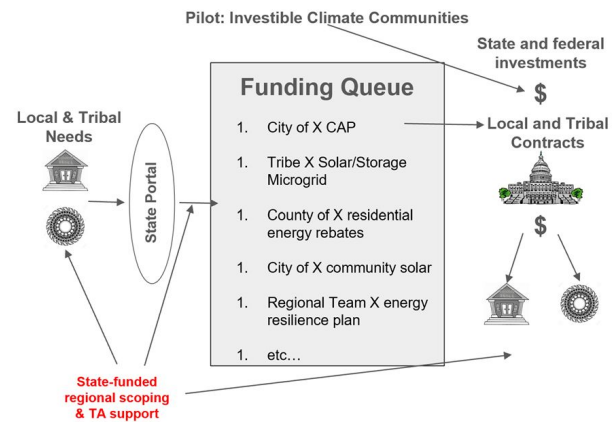
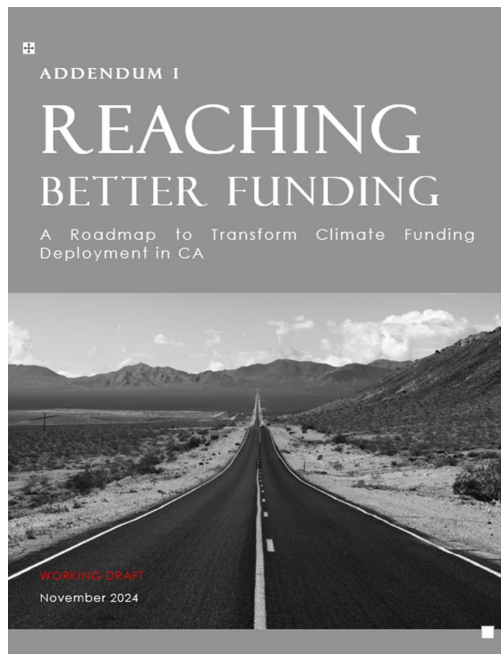
Examples





Plenary Discussion: Groundset

Streamlining and improving engagement, technical assistance and funding to communities





Plenary Discussion: Groundset

What would a funding queue or project pipeline for this region look like?

Activity:

Please add up to three preliminary project concepts that represent a near-term (1-2 years) need for work that is currently unfunded or underfunded





Plenary Discussion: Panel

Streamlining and improving engagement, technical assistance and funding to communities



Director of Collective Impact
Lift to Rise
Ian Gabriel



Executive Director
IEGO
Matthew Mena



Deputy Director of Planning &
Climate Policy
LCI
Natalie Kuffel



Director of Special Projects,
Inland Empire Labor Institute
Esmeralda Vazquez



Plenary Discussion: Roundtables

Streamlining and improving engagement, technical assistance and funding to communities

- What other examples are you aware of that have made inroads into streamlining engagement, assistance, and funding to communities?
- If you could snap your fingers and re-engineer how California deploy engagement, assistance, and funding to communities, how would you do it?



Plenary Discussion: Takeaways

**Streamlining and improving
engagement, technical assistance
and funding to communities**





Assistance Lounge

- California Climate Investments
- Center for Employment Training
- Center for Sustainable Energy
- Chino Valley Chamber of Commerce
- EcoVista 360
- GO-Biz
- Office of Land Use and Climate Innovation
- GRID Alternatives
- IEGO
- Inland Empire Labor Institute
- ISC3
- South Coast AQMD
- Strategic Growth Council
- TECC
- UC Riverside

