

Local Energy Resources Network



Meeting 19

May 9, 2023

*Featuring CA Energy Design
Assistance and US EPA*



Welcome!

Purpose

Interactive 1-hour meetings designed to be a regular space where local governments - and those who work with them - can help each other learn about (and possibly inform) available opportunities to advance their energy and climate goals.

TODAY'S AGENDA

- Opportunity Roundtable
- Opportunity Spotlight with Tina Hendrix at Wildan
- Featured presentation with Andrea Denny at the EPA
- BPC Workshop
- **NEW!** Optional: Extended 15 minutes for Bonus Breakouts
 - CAPs + costs



Opportunity Roundtable

Need/Have
Board

View all
Opportunities

Policy Drives Investment

Agencies Scope/ Design Assistance Programs & Gather Input

Applicants Apply to Funding Solicitation

State

- FY 21-22 Budget (\$15B climate resilience)
- FY 22-23 Budget (\$38.8B climate change)
- Cap and Trade auction revenue allocations (~\$19B raised since 2013)

- FY 23-24 Gov Proposed Budget (letter opposing \$6B in cuts to climate programs)

- Other legislative action (e.g. SB 852 local climate resilience financing districts, SB 511 statewide local GHG inventories- sign on)

- State agency proceedings (e.g. *CPUC microgrid, CEC IEPR, *CARB Scoping Plan)

Federal

- Infrastructure Investment and Jobs Act (IIJA) (2021) = \$47B in climate resilience funding
- FY 22-23 Budget (\$44.9B climate change)
- Inflation Reduction Act (IRA) (2022)
- Biden's Proposed FY 23-24 Budget (\$52.2B climate change)

Funding

- EPA: Climate Pollution Reduction Grants (CPRG) - Metro area Notice of Intent due April 28, 2023, application due May 31, 2023
- DOE: Energy Efficiency and Conservation Block Grant (EECBG) Formula(\$550M IILJ) - Pre-award Info Sheet July 31, TA website
- DOE: Buildings Upgrade Prize (Buildings UP) Phase 1 - winners selected March-May until funds are expended
- CEC: CA Automated Permit Processing Program (CalAPP) (\$20M) - due May 2, 2023
- DOE: Clean Energy to Communities (C2C) (\$6.5M)- due May 17, 2023
- SCG: Transformative Climate Communities - due August 1, 2023, free TA available now
- DOE: Energy Efficiency and Conservation Block Grant - Competitive Program (EECBG) (8.8M IILJ)- Concept papers due June 5, 2023
- IRS: Consumer clean energy tax credits live!

On the horizon ... (applications anticipated in next 3 months)

- OPR: Regional Resilience Planning & Implementation Grant Round 1 (\$21M) Spring 2023, Intent to Apply & Request for Help Surveys - applications available on June 13
- DOE: Building Codes Implementation for Efficiency and Resilience - TBD
- DOE: Home Energy Rebate Program (IRA, \$582M allocated to CA) see summary (\$582 State allocation)
- EPA: EPA's Environmental and Climate Justice Program - Summer 2023
- EPA: GreenHouse Gas Reduction Fund - Summer 2023
- DOT: Strengthening Mobility & Revolutionizing Transportation (SMART) Grants (BIL \$100M) - Summer 2023
- SGC: Draft Round 2 Regional Climate Collaboratives Program Guidelines - bi-weekly office hours

Input

- CEC: Staff Workshop on Draft Equitable Building Decarbonization Direct Install Program Guidelines - May 17, 2023
- CEC: Home Energy Rebate Programs and Equitable Building Decarbonization Regional Workshops (more details to come)
- CARB/CCEC: Listening Session: Barriers to Local Climate Action Planning - May 24, 2023

Other Assistance

- BayREN: - 9th Circuit Berkeley Gas Ban Decision 2023 Information for REsources for Local Governments
- Green Cities: May 17 meeting on Berkeley Decision - email brandy@greencitiescalifornia.org



Opportunity Spotlight



Please add your
questions for Tina
in the chat

Outreach Lead at Wildan (Implementer of CEDA)

Tina Hendrix

The California Energy Design Assistance (CEDA) program promotes the electrification and decarbonization of new building construction or major renovation. CEDA works in collaboration with project teams to reduce energy demand, consumption, and carbon emissions.

CEDA serves commercial, public, high-rise multifamily, industrial, and agricultural projects in Pacific Gas & Electric (PG&E), Southern California Edison (SCE), SoCalGas (SCG), and San Diego Gas & Electric (SDG&E) service areas.



WHY PARTICIPATE IN CEDA?



- Receive complimentary custom **energy modeling**
- Get help identifying and evaluating **energy-saving opportunities**
- Gain analysis of **energy costs and paybacks**
- Receive **financial incentives** to help offset the costs of energy saving measures for qualified projects



Tina Hendrix
Outreach
Specialist (760)
585-7577



CEDA for K-12 Educational Facilities



WE HELP YOU BUILD SUSTAINABLE SCHOOLS

For K-12 Educational Facilities

The California Energy Design Assistance (CEDA) program offers a unique opportunity for schools to build sustainable, comfortable, energy-efficient buildings.

Schools are facing increasing pressure to provide safe and clean environments for their staff and students. If a new building or major renovation are on the horizon in your district now is the perfect time to enroll in the CEDA program and improve your school designs.

CEDA provides a complimentary analysis of different energy efficiency options and outlines potential energy savings and incentives.

Our dedicated team of energy specialists listen to your project goals and customize energy efficiency options to help you maximize your long-term savings potential.

Energy costs are second only to personnel costs for K-12 school district operational budgets.

CEDA@willdan.com CaliforniaEDA.com

FACT SHEET

BENEFITS OF CEDA



Financial Incentives



Complimentary Energy Design Assistance



Lifelong Energy Savings



TRUSTED ENERGY CONSULTANTS

Willdan is a Recognized Sustainability Leader for Schools.

1.3K

Schools
served

93M

Cumulative
kWh saved

911K

Cumulative
tons saved

38K

Cumulative
GHGs avoided

5 EASY STEPS

- Enrollment**
- Preliminary Analysis**
- Final Analysis**
- Verification**
- Incentives**

PROJECT ELIGIBILITY

- In early design phases
- Located in a PG&E*, SCE*, SoCalGas*, or SDG&E* service territory with an eligible rate structure
- Project team interest and commitment to evaluating energy efficiency options
- New construction or a major alteration*

*Major alterations must meet one or more of the following criteria:

- Changes in space function (building or space occupancy type of change)
- Substantial changes (≥30%) in design occupancy (square feet per person)
- Increase (≥10%) in conditioned floor area
- Any expansion or addition of substantial process or conditioning load to an existing facility



CEDA is funded by California utility customers and administered by Pacific Gas and Electric Company (PG&E) and supported by the state's other investor-owned utilities, SOUs, under the auspices of the California Public Utilities Commission. Program funds, including any funds allotted for retainer or incentives, will be allocated on a first-come, first-served basis until such funds are no longer available. This program may be modified or terminated without prior notice. Customers who do not opt-in to participate in this program are not obligated to purchase any additional goods or services offered by Willdan or any other third party. The selection, payment, and completion of goods or services are the sole responsibility of customers. None of the SOUs make any warranty, whether express or implied, including the warranty of merchantability or fitness for a particular purpose, of goods or services received by customers. None of the SOUs or others, as well as, or guarantee the work of Willdan or any other third party. Eligibility requirements apply, see the program guidelines for details.



Featured Guest



Please add your
questions for
Andrea in the chat

Lead Environmental Policy Analyst at the EPA
Andrea Denny



State and Local Climate and Energy Program

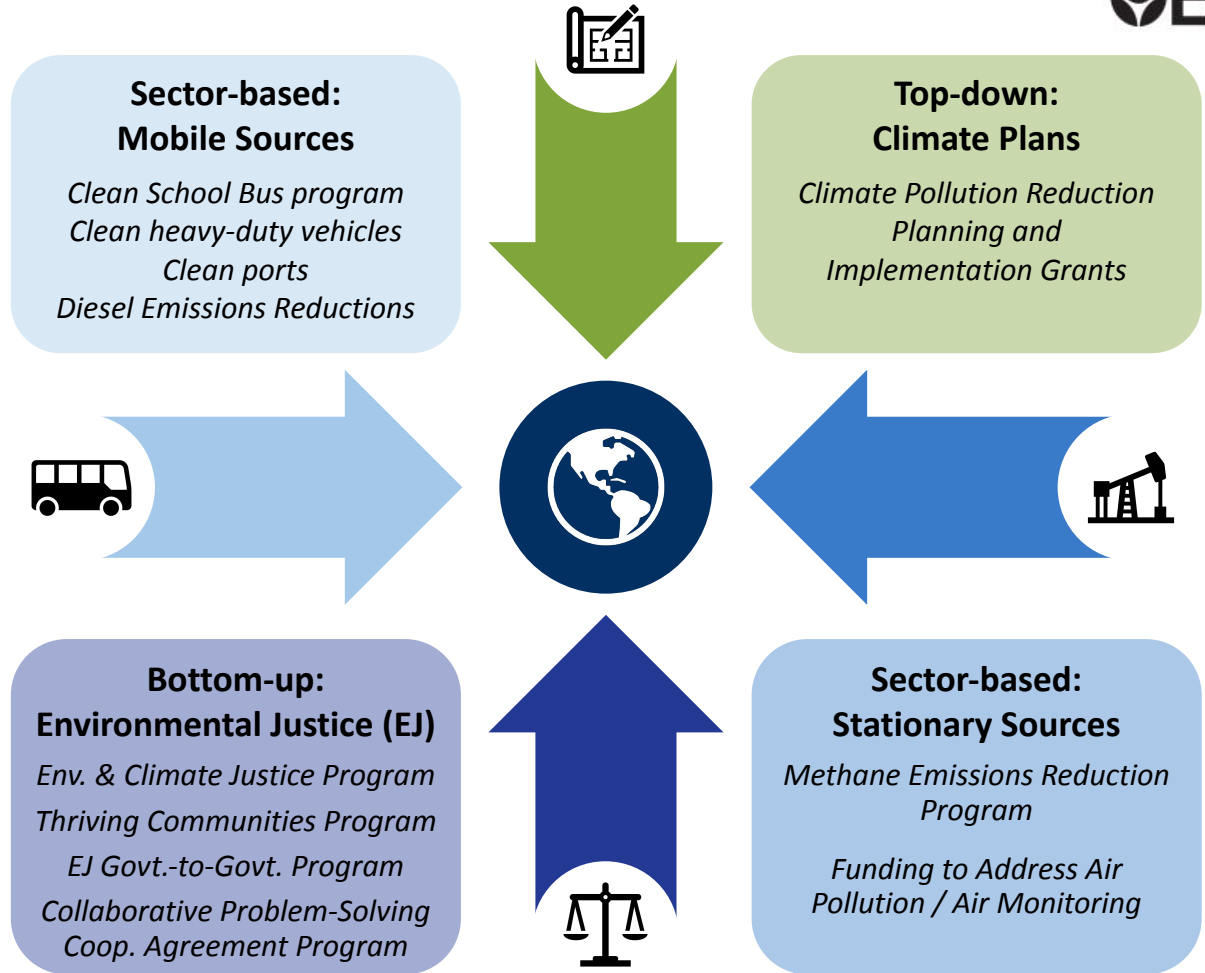
Funding and Technical Resources for Local Governments

Agenda

- EPA IRA Funding
 - GHG Reduction Fund
 - Environmental and Climate Justice Grants
 - Climate Pollution Reduction Grants
- State and Local Climate and Energy Program Resources



TACKLING CLIMATE AND AIR POLLUTION FROM MULTIPLE ANGLES



Greenhouse Gas Reduction Fund (GHGRF)

- EPA anticipates opening competitions for funding under this program in early summer 2023
- The GHGRF will be implemented through 3 competitions:
 - \$14 billion National Clean Investment Fund
 - \$6 billion Clean Communities Investment Accelerator
 - \$7 billion Solar for All competition

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<https://www.epa.gov/greenhouse-gas-reduction-fund>



ENVIRONMENTAL & CLIMATE JUSTICE GRANTS

Launch

RFA/RFP

Award

Grant/Contract

- Program Design

Competition & Review

Funds Awarded

Program	Funds	FY 2023grou			FY 2024				FY 2025
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q4
TCTACs	\$100M								
Grantmaker	\$550M					EPA selects 5-11 pass-through funders who each then award assessment, planning, and project development grants to subgrantees in discrete regions of the country			
EJ-CPS	\$30M								
EJ-G2G	\$70M								
E&CJ Change Grants Round 1	Up to \$2B						Change Grants awarded on a rolling basis beginning Q1		
E&CJ Change Grants Round 2	TBD								
Eval. & Reporting TA	\$10M								

Climate Pollution Reduction Grants

1. **Planning grants** to develop strong climate pollution reduction strategies (\$250 million)
2. **Competitive implementation grants** to help put plans into action (\$4.6 billion)

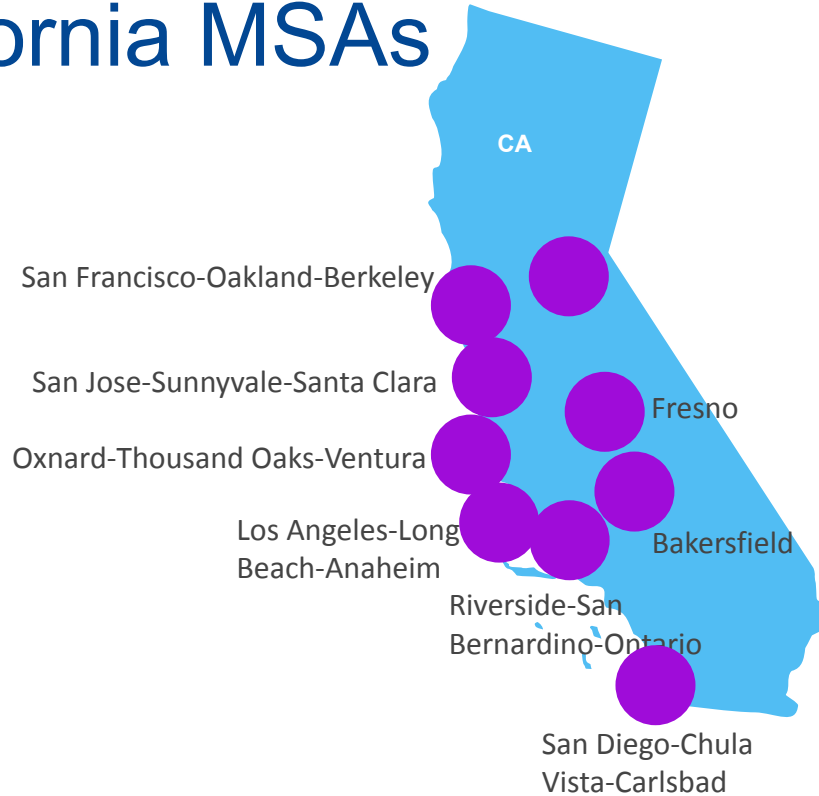
<https://www.epa.gov/inflation-reduction-act/climate-pollution-reduction-grants>



CPRG: State and Local Coordination

- State Requirements
 - **Collaborate** with air pollution control agencies, and municipalities **within the state** to develop the PCAP and over the duration of the grant
 - Identify and **include priority measures** in the state PCAP that can be implemented by collaborating entities (e.g., municipalities, air pollution control agencies, collaborating tribes)
- Strategies for Municipalities to Engage with their States
 - reach out to state contacts to learn more about how they intend to conduct this coordination
 - monitor state websites or newsletters for announcements about coordination, training, or capacity-building opportunities
 - collaborate with neighboring communities or municipal groups to identify shared priority GHG reduction measures and best practices that can inform state plans
 - share existing municipal climate, energy, or sustainability plans, programs, and policies with the state

California MSAs



Resources for Federal Funding

Thinking of applying?

All applicants must have an active [SAM.gov](https://sam.gov) and [Grants.gov](https://grants.gov) registration in order to apply for a grant under this program. You should register in these systems **now** if you think you may apply for a federal grant. **The process can take a month or more for new registrants.** [Information about how to register.](#)

- **Inflation Reduction Act**
 - **White House *Inflation Reduction Act Guidebook***
www.whitehouse.gov/cleanenergy/inflation-reduction-act-guidebook/
- **Infrastructure Investment and Jobs Act**
 - **White House *Guidebook to the Bipartisan Infrastructure Law for State, Local, Tribal, and Territorial Governments and Other Parties***
www.whitehouse.gov/wp-content/uploads/2022/05/building-a-better-america-v2.pdf
- **Identifying and Applying for Grants**
 - **Grants.gov:** clearinghouse for all federal grant opportunities, includes training and resources
 - **EPA Grants Office:** training and resources on applying for grants: www.epa.gov/grants





State and Local Climate and Energy Program

Tools and Technical Resources for Local Governments



Our Tools and Resources Support State, Local and Tribal Stakeholders on Clean Energy Policy



Develop Inventories and Set Goals

GHG INVENTORY TOOLS

State Inventory and Projection Tool

Develop and update inventories for 11 sectors. Forecast emissions through 2050

Local Inventory Tool

Develop community-wide inventories or inventories of local government operations only

Tribal Inventory Tool

Develop community-wide inventories or inventories of tribal government operations only



Design, Compare, or Evaluate Policy



Avoided Emissions and geneRation Tool

Evaluate changes in power plant emissions from energy policy



Co-Benefits Risk Assessment Health Impacts Screening and Mapping Tool

Quantify and monetize health impacts of reducing emissions



Health Benefits per kWh

Estimate the health benefits per kWh of clean energy



Communicate and Support Policy Implementation



Greenhouse Gas Equivalencies Calculator

Convert a unit of energy to the equivalent amount of CO₂ emissions from using that amount



Heat Island Reduction Program

Resources to implement heat island mitigation policies and projects



Technical Support

Provide 1-1 technical support for state, local and tribal stakeholders



Convene Stakeholders

Engage state, local and tribal decision-makers



Local Action Framework:

A Guide to Help Communities Achieve Energy and Environmental Goals



Energy and Environment Guide to Action: State Policies and Best Practices for Advancing Energy Efficiency, Renewable Energy, and Combined Heat and Power



Quantifying the Multiple Benefits of Energy Efficiency and Renewable Energy:

A Guide for State and Local Governments



Local Government Climate and Energy Strategy Series:

A Guide to Developing and Implementing Greenhouse Gas Reduction Programs

Inventory Tools

GHG INVENTORY TOOLS



EPA offers a suite of tools to help state, local, and tribal governments complete a GHG Inventory.

State Inventory and Projection Tool: Complete historic inventories for 1990-2018 and a simplified forecast through 2050

Local Inventory Tool: Complete an inventory of government operations and/or a community wide inventory for a single year.

Tribal Inventory Tool: Complete an inventory of government operations and/or a community wide inventory for a single year.

<https://www.epa.gov/statelocalenergy/state-local-and-tribal-inventory-tool>
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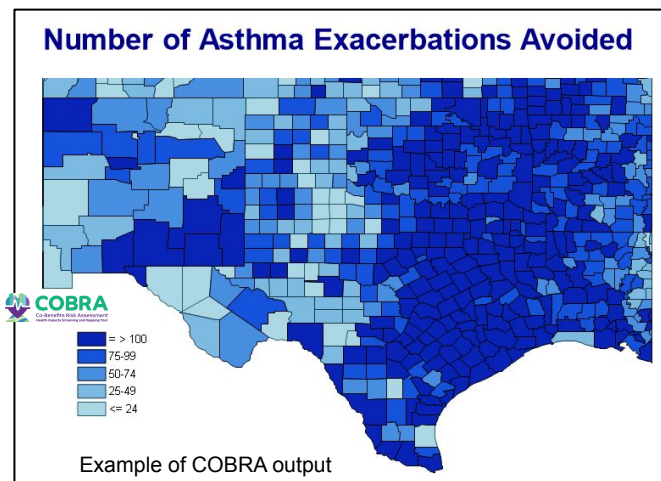
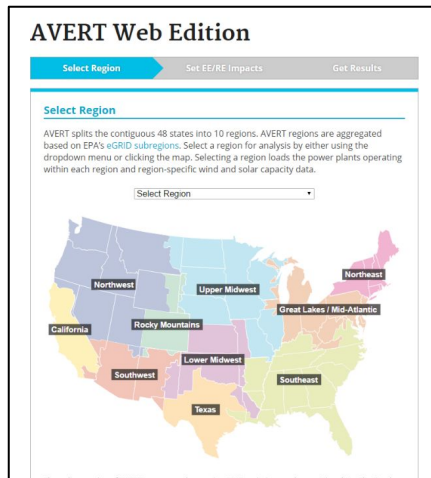
AVERT and COBRA



- Translates EE/RE/EV programs to avoided NO_x, SO₂, PM_{2.5}, VOC, NH₃ and CO₂ emissions impact using 2007-2020 data
- Available in streamlined web version or downloadable fully-featured Excel version ([link](#))



- Estimates county-level health benefits from changes in criteria air pollutants and monetizes their economic value
- Can directly import AVERT results
- Downloadable software or web version available (www.epa.gov/cobra)



Health Benefits per kWh Values (BpK)



How to use BpK:

$$\text{BPK} \times \Delta \text{kWh} = \text{Estimated Health Benefits} (\$)$$

Stakeholders can estimate monetized public health benefits of EE and RE

Useful for preliminary analysis scenarios – not a substitute for sophisticated analysis

Intended audiences

Energy, air, or health agencies

Public utility commissions

EE/RE project developers

Industry organizations

NGOs

Other researchers

Region	Project Type	3% Discount Rate	
		2017 C/kWh (low estimate)	2017 C/kWh (high estimate)
California	Uniform EE	0.48	1.08
	EE at Peak	0.52	1.17
	Solar	0.51	1.15
	Wind	0.48	1.09
Great Lakes/ Mid-Atlantic	Uniform EE	3.51	7.95
	EE at Peak	3.57	8.08
	Solar	3.67	8.29
	Wind	3.35	7.59
Lower Midwest	Uniform EE	2.31	5.23
	EE at Peak	2.11	4.77
	Solar	2.19	4.96
	Wind	2.35	5.32
Northeast	Uniform EE	1.65	3.73
	EE at Peak	2.24	5.07
	Solar	1.94	4.38
	Wind	1.58	3.56
*Uniform EE		1.13	2.55





- **Energy Savings and Impacts Scenario Tool (ESIST)** is a customizable planning tool for analyzing the energy savings and costs from electric customer-funded energy efficiency programs and their impacts on emissions, public health, and equity from 2010-2040.
- Combines several publicly available and peer-reviewed data sets to support analyses for policy and program planning efforts that would otherwise be significantly more time-consuming and resource-intensive.
- **ESIST Users:** state agency officials, public utility commission staff, local government staff, utilities, analysts, academics, air quality planners, and public health officials
- **Key outputs:** energy savings, energy efficiency program costs, avoided emissions (CO₂, SO₂, NO_x ozone season, and PM_{2.5}), monetized public health impacts, energy burden reductions, demographic data, and peak demand impacts

Greenhouse Gas Equivalencies Calculator



- translate abstract measurements into concrete terms such as annual emissions from cars, households, or power plants
- Improve communications about GHG emissions goals and savings
- [Calculator Website](#)

Equivalency Results

[How are they calculated?](#)

The sum of the greenhouse gas emissions you entered above is of Carbon Dioxide Equivalent. This is equivalent to:

100 Metric Tons

Greenhouse gas emissions from



CO₂ emissions from



Benchmarking and Building Performance Standards Policy Toolkit

Informs state and local government decision makers who are exploring policies to reduce energy use and greenhouse gas (GHG) emissions from existing commercial and multifamily buildings

Toolkit Structure

- Section 1: Building Energy Benchmarking and Transparency: Overview for State and Local Decision Makers
- Section 2: Building Performance Standards: Overview for State and Local Decision Makers
- Section 3: State and Local Government Coordination: Benchmarking and Building Performance Standards
- Section 4: Data Access: A Fundamental Element for Benchmarking and Building Energy Performance Policies



Homepage: [Benchmarking and Building Performance Standards Policy Toolkit](#)



Local Action Framework:

A Guide to Help Communities Achieve Energy and Environmental Goals

- A step-by-step guide designed to help local and tribal governments plan, implement, and evaluate new or existing energy or environmental projects
- The guide covers six interrelated energy and environmental project implementation phases:
 - Engage and Communicate
 - Develop a Greenhouse Gas Inventory
 - Set Goals and Select Actions
 - Obtain Resources
 - Take Action
 - Track and Report
- Available [online](#)

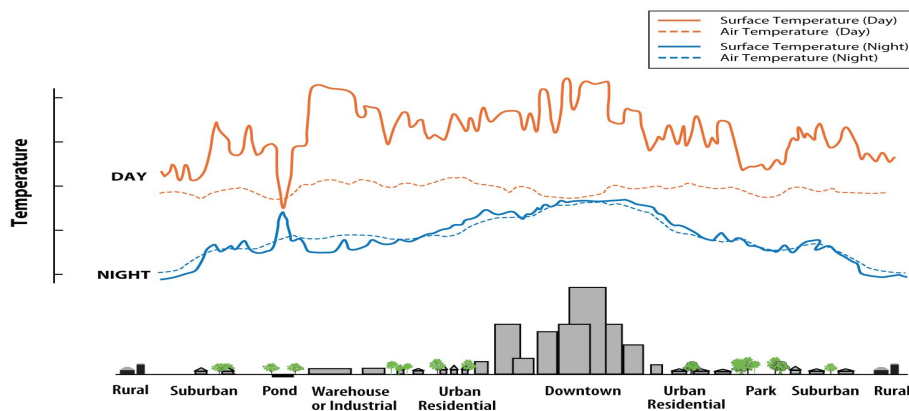


Local Action Framework:
A Guide to Help Communities Achieve
Energy and Environmental Goals

45/28/2001
Spring 2010



Heat Island Program



- Advance actions by local governments and the public to mitigate heat islands through green roofs, cool roofs, cool pavements, and trees/vegetation
- Protect public health, save energy, and lower GHGs
- Leverage public concern about heat threats and heat inequity

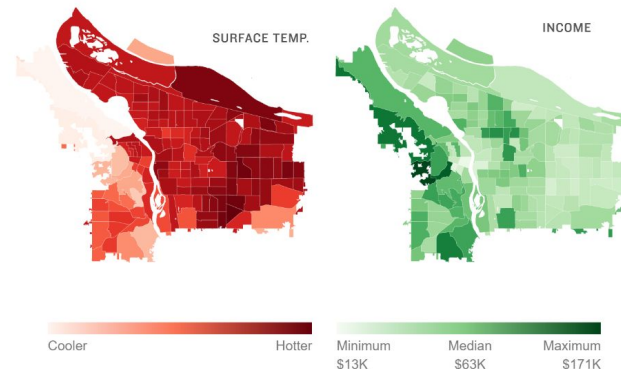
Current offerings

Resources and analytics – *Compendium*, website, newsletter, webinars

Enhanced outreach – New summer social media campaign on heat-health-climate change



Heat and Income in Portland, OR

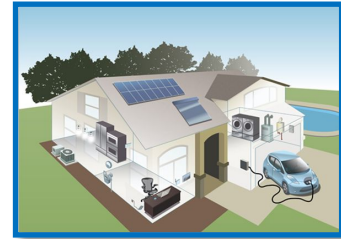


Source: NPR (from NASA/USGS, Census Bureau data)

<https://www.epa.gov/heatislands>

Beneficial Electrification Resources

SLB partners with EPA's Office of Transportation and Air Quality (OTAQ) to inform state and local governments about beneficial electrification policies, programs, and analysis that can help them meet decarbonization goals.



Tools and Resources

- ❑ Recorded [webinars](#) on emerging electrification topics
- ❑ [Tool-finder for Electrification Benefit Quantification](#)
 - screen and select tools and resources designed to measure the environmental and economic impacts of current and prospective electrification initiatives
- ❑ ENERGY STAR resources
 - EV Charger Specification for Level I and II, DC coming soon
 - [Website](#) with product finder, procurement guidance, incentives list, public EVSE locator and more
- ❑ OTAQ Resources
 - [Green Vehicle Guide](#)
 - [Fuel Economy.gov](#)
 - Additional tools, grants, and guidance at www.epa.gov/state-and-local-transportation

Additional Tools and Resources

Tool Finder for Local Government Clean Energy Initiatives

- Enables staff to screen the tools/resources that measure the emissions, energy, and economic impacts of their policies and programs

Local Climate Strategy Series

- Series of 12 guides to greenhouse gas (GHG) emissions reduction strategies that local governments can use covering energy efficiency, transportation, community planning and design, solid waste and materials management, and renewable energy

Clean Energy Financing Toolkit for Decisionmakers

- This toolkit provides profiles of about a dozen types of clean energy financing programs. This introductory information is intended to help decisionmakers understand the basics of a range of financing programs, view examples and access additional resources to learn more.

Webinars

- State and Local case studies and best practices from around the US

Newsletters

- Sign up to receive news updates as well as learn about new resources, webinars, and funding opportunities



USEPA State and Local Climate and Energy Program

Maggie Molina

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Andrea Denny

Local Program Lead

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Audience Q&A

Please add your questions or input for Andrea or input in the chat or raise your hand

- *Input topic*: What positive experiences have you had with State or fed agencies offering effective assistance for grant preparation?

BPC Workshop

Topic: Discussion

*Registration
is Now Open!*

14th Annual California Climate & Energy Forum

Investment, Innovation, and Inclusion:
Locals Leading a Clean Energy, Climate-Stable Future for All



June 13 - 14, 2023 · Santa Rosa, CA

- Registration is open for the [2023 CCEC Forum!](#)
- Contact me for individualized grant help: ahacker@civicwell.org

Local Energy Resources Network



What's Next?

- **NEW** Bonus Breakouts up next!
- No June meeting
 - Next meeting **July 11, 2023**
- Share [invitation](#) with others



Optional: Bonus Breakouts

Thanks for joining us!

This is a **NEW** space for informal discussion among the LERN network. Feel free to:

- Offer an announcement, success story, or opportunity
- Share a need for information, collaborators, or advice
- Raise a suggested topic or speaker for future LERNS

If you need an in-depth discussion, you can pitch a specific bonus breakout topic and invite others to join you (today or we can plan ahead for next month)



CCEC Serves Local Needs



wEEkly Update



CURRENTS Quarterly



Webinars



Annual Forum



Active Funding Opportunities



Funding Program Database



Technical Assistance



Technical Assistance Directory



Local Government Roundtables



Best Practice Database



Interviews and Case Studies