Local Energy Resources Network

Meeting 12

October 11, 2022

Let's LERN Together – Featuring a Conversation with Leah Louis-Prescott (RMI) on the Equitable Home Electrification Toolkit

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 + Spotlights
- Featured Discussion with Leah Louis-Prescott (RMI)
- BPC Workshop: CCEC Updates

Opportunity Roundtable - State

Policy Drives Investment	Agencies Scope/ Design Assistance Programs & Gather Input	Applicants Apply to Funding Solicitation
State - FY 21-22 Budget ($15B climate resilience investments) - FY 22-23 Budget ($38.8B climate change) - Cap and Trade auction revenue allocations (~$19B raised since compliance began in 2013) - Other legislative action (e.g. SB 852 local climate resilience financing districts) - State agency proceedings (e.g. *CPUC microgrid, *CEC IPER, *CARB Scoping Plan)	**CA Energy Comm (CEC):** - Community Energy Resilience Investment (CERI) Program ($33.7M in year 1 via DOE IIJA Grid Resilience Formula Subgrants) - Building Initiative for Low-Emissions Development (BUILD) - CA Automated Permit Processing Program (CalAPP) ($20M) -*Behind-the-Meter Zero-Emission Backup Tech RFI due Oct 30 **CA Public Utilities Comm (CPUC):** - Microgrid Incentive Program ($200M in 2021) - Self Generation Incentive Program (SGIP) **CA Office of Planning & Research (OPR):** - *Adaptation Planning Grant ($25M; $10M for Round 1) Workshop Oct 11. Comments due Oct 28. LERN presentation Nov 8. - *Regional Resilience Planning & Implementation Grant ($250M; $25M for Round 1) ** Active Opportunities* **Near-term Upcoming Opportunities*	CERI: NOFA in 2023 BUILD: TA and incentive applications available now CalAPP: Applications due 5/1/23 PG&E: Community Microgrid Enablement Prog avail. now IOUs: SGIP Energy Storage Rebates available now APG Round 1: $10M NOFA in Nov 2022. RRPIG Round 1: $25M NOFA in Winter 2022/23

Opportunity Roundtable - State

Policy Drives Investment	Agencies Scope/ Design Assistance Programs & Gather Input	Applicants Apply to Funding Solicitation
State - FY 21-22 Budget ($15B climate resilience investments) - FY 22-23 Budget ($38.8B climate change) - Cap and Trade auction revenue allocations (~$19B raised since compliance began in 2013) - Other legislative action (e.g. SB 852 local climate resilience financing districts) - State agency proceedings (e.g. *CPUC microgrid, *CEC IPER, *CARB Scoping Plan)	**Strategic Growth Council (SGC):** -Transformative Climate Communities ($106M FY 21-22, $156M FY 22-23) -*Community Resilience Centers ($195M; $25M for Round 1) Guidelines released for comment in Fall -*Affordable Housing Sustainable Communities (AHSC) Workshop in Oct. Comments for Round 7 Guidelines due Oct 31. **CARB** - CA Clean Mobility Options Voucher Program ($1M) **CA Office of Emergency Services (CalOES)** - Building Resilience Infrastructure and Communities (BRIC) (FY22 NOFO $2.3B via FEMA) + non-federal cost share ** Active Opportunities* **Near-term Upcoming Opportunities*	TCC: TA available now to prep for Round 5 (early 2023) CRC: $25M NOFA in 2023 AHSC: Applications expected Jan 2023 CMO: Applications open Nov 2 (first come, first serve) BRIC: Locals apply through CalOES by Dec 2,2022 (NOI was due Sept 16)

Opportunity Roundtable - Fed

Policy Drives Investment	Agencies Scope/ Design Assistance Programs & Gather Input	Applicants Apply to Funding Solicitation
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)	**US DOE** - Energy Efficiency and Conservation Block Grant (EECBG) ($550M IILJ) - Local Government Energy Program ($10M FY22, $25M FY 2023) - Energy Futures Grant ($20M FY22, $105M FY23) - Energy Improvement in Rural and Remote Areas ($1B from IIJA) - Office of Clean Energy Demonstrations: Program Upgrading Our Electric Grid and Ensuring Reliability and Resiliency ($5B from IIJA) - Energy Storage Demonstration Pilot Grant Program ($335M in IIJA) - *Grid Resilience and Innovation Partnerships Program ($10.5B from IIJA) RFI due 10/14/22 **US IRS/Treasury** -*Clean Energy Tax Incentives Comments due 11/4/22 **USDA** ** Active Opportunities* **Near-term Upcoming Opportunities*	EECBG: Applications expected later this year LGEP: TBD EFG: TBD EIRRA: Applications expected late 2022 PUOEG: Applications expected later this year ESDPG: Applications expected later this year GRIPP: Applications expected later this year

Opportunity Roundtable - Other

- **Regional Energy Networks** (BayREN, SoCalREN, 3C-REN): code support, public agency retrofit support, residential/commercial incentives and support
- **CCAs:** Resilience Initiatives
- **DOE/Stop Waste/Berkeley/Gainesville**: Oct. 18 Webinar: Provide Transparency to Residents and Incentivize Energy Efficiency with Home Energy Score
- **PG&E/ProspectSV**: Market Access Program (EE incentives)
- **Building Decarbonization Coalition**: Zero Emission Building Ordinances Tracker
- **RMI/Emerald Cities Collaborative**: Equitable Home Electrification Toolkit

Featured Guest

Manager with the Carbon-Free Buildings Team at Rocky Mountain Institute (RMI)

Leah Louis Prescott

The Equitable Home Electrification Toolkit

10/11/22

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Emerald Cities
COLLABORATIVE

Agenda

Toolkit Background

Toolkit Highlights

Takeaways

Q&A

Toolkit Overview

- **A set of tools and process guide** to help communities advance equitable housing electrification
- Designed for **local governments & frontline communities** to partner from the onset
- Supports development of an **equitable home electrification policy roadmap**

Why focus on existing home electrification?

- Significant, under-addressed source of pollution
- Critical pathway to decarbonization
- Opportunity to address myriad challenges -- housing affordability, health and safety, historical disinvestment

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Toolkit Development

- RMI **supported Berkeley's** Existing Building Electrification Strategy roadmap development
- Adopted RMI's **local government cohort model** with Emerald Cities Collaborative
- Convened **10 teams** of local governments and community partners for 9 months
- Developed and refined **toolkit resources** for additional local governments to follow

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Cohort Participants:

- Contra Costa County + Richmond Progressive Alliance
- Hayward + Local Clean Energy Alliance
- Los Angeles County + Day One
- Oakland + The Unity Council
- Sacramento + Sacramento Area Congregations Together + Sacramento County
- San Luis Obispo + R.A.C.E. Matters
- San Mateo County + El Concilio of San Mateo County
- Santa Cruz + NAACP Santa Cruz County
- Santa Monica + Santa Monica Black Lives Association
- Watsonville + Regeneración

Equitable Approach

- **Building electrification must happen equitably.** This means collaborating with communities most impacted by climate change and poor air quality and co-create solutions that center these communities' needs.
- An equitable approach:
  - **Broadens** the range of voices involved in policy-making by using many engagement methods
  - **Deepens** the influence of those most impacted by climate change and poor air quality
- **Bottom Line:** Equitable climate solutions are the only real climate solutions

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The Online Toolkit

RMI | Our Work | Research & Analysis | Stories | News & Events | Impact | About | Join | Donate

https://rmi.org/equitable-home-electrification-toolkit/

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- Home
- Content Library

Home

This toolkit is intended to help communities across the United States take meaningful steps toward equitably electrifying their existing housing stock through a planning process designed to maximize engagement and co-ownership between local governments and frontline community groups. The content was developed jointly by RMI and Emerald Cities Collaborative for the 2021-2022 Equitable Home Electrification Program, a community of practice between 10 teams representing local governments and community organizations:

Toolkit Framework

Table of Contents

- **Home**
- Content Library
- Establish Your Team
- Complete Preliminary Research
- Engage Your Community
- Draft Your Roadmap

Process Guide & Roadmap Template

Where to begin? To help teams along, RMI/ ECC developed a Process Guide & Roadmap Template with placeholder content, links to resources, and a detailed guide to the strategic processes used in this presentation. Teams are invited to customize these materials as they see fit.

Suggested Process

- Establish Your Team
- Complete Preliminary Research
- Engage Your Community
- Draft Your Roadmap

Sound familiar?

Suggested Roadmap Table Of Contents

1. Executive Summary & Goal Statement
2. Introduction
3. Community Goals & Co-Ownership Process
4. Building Electrification in [Jurisdiction]
5. Proposed Policy and Programmatic Solutions
6. Next Steps
7. Suggested Appendices

Stakeholder Mapping Tool

Helps teams identify critical stakeholders, keep track of their individual and organizational contacts, and develop a plan for engaging each stakeholder group.

EQUITABLE HOME ELECTRIFICATION TOOLKIT: STAKEHOLDER MAPPING

The purpose of this tool is to identify the key stakeholders that need to be involved in the transition to all-electric homes in your jurisdiction. This tool will help you understand each stakeholders' role and begin to develop an outreach strategy.

Directions:
Step 1. Fill out Columns A-B with stakeholders that you feel would be helpful/necessary to support equitable home electrification. Don't spend too much time on one stakeholder! Try to list as many as possible, then fill in the details.
Step 2. Fill out Columns C-G with your best assessment of each stakeholder. Take note of where you are unsure and discuss which partners you could work with to fill in the blanks.
Step 3. Check out the "Grid" tab, which auto-populates with your answers to column F and G. Use this visual to help identify which stakeholders to prioritize in your engagement efforts.
Step 4. Fill out Column H-K for the stakeholders you prioritized in step 3 to begin making plans for your team's outreach/engagement strategy.

EXAMPLE STAKEHOLDER GROUPS FOR COLUMN A: housing; homeowner and tenant orgs; environmental justice orgs; climate orgs; health orgs; labor orgs; business orgs; utility providers; mayors; council/board members; municipal departments (e.g., sustainability, housing, economic development, health, planning, public works, safety); other government agencies

STAKEHOLDER TYPE	STAKEHOLDER NAME	PURPOSE	VALUE PROPOSITION	LIKELY CONCERNS
(See directions for details.)	*What is this organization/person called?*	*Why is it important that we engage this group?*	*What does this stakeholder group stand to gain?*	*What is this group likely to be concerned about? What is the general strategy for addressing or mitigating those concerns?*
Ex: Tenant Organization	*Ex: Neighbors for Fair Housing*	*Ex: NFH represents many BIPOC tenants, a target audience for our program*	*Ex: Energy security, energy affordability, and tenant comfort*	*Ex: "Renovictions" and higher rent; Team will address with incentive programs and protections written into ordinance*

Spectrum of Community Engagement*

Facilitating Power encourages teams to defer power to community groups and genuinely co-create policies with impacted local stakeholders. The further we advance down the spectrum, the better.

STANCE TOWARDS COMMUNITY	IGNORE	INFORM	CONSULT	INVOLVE	COLLABORATE	DEFER TO
	0	1	2	3	4	5
IMPACT	**Marginalization**	**Placation**	**Tokenization**	**Voice**	**Delegated Power**	**Community Ownership**
COMMUNITY ENGAGEMENT GOALS	Deny access to decision-making processes	Provide the community with relevant information	Gather input from the community	Ensure community needs and assets are integrated into process & inform planning	Ensure community capacity to play a leadership role in implementation of decisions	Foster democratic participation and equity through community-driven decision-making; Bridge divide between community & governance
MESSAGE TO COMMUNITY	***Your voice, needs & interests do not matter***	***We will keep you informed***	***We care what you think***	***You are making us think, (and therefore act) differently about the issue***	***Your leadership and expertise are critical to how we address the issue***	***It's time to unlock collective power and capacity for transformative solutions***

Image Credit: Movement Strategy Center

*Created by Rosa Gonzalez & Facilitating Power (link) and shared in toolkit

Ecosystem Mapping Guide

- Most municipalities think they engage CBOs, **but do they pick the right ones?**
  - Many municipalities "check a box" by consulting one or very few CBOs
  - Often the most well-funded, well-connected, and *friendly* groups
- With help from the **People's Climate Innovation Center,** RMI/ECC developed seven indicators to "map" CBOs' expertise, capacity, and equity focus:

Aligned
Are they focused on this work?

Accountable
Are they local and BIPOC-led?

Trusted
Are they seen as legitimate?

Connected
Can they bring along others?

Effective
Do they improve quality of life?

Capacity to Collaborate
Are they ready?

Long-Term Capacity
Will they last?

FAQs for Community Leaders

A 101 guidebook that community leaders can use to build the baseline understanding necessary to meaningfully engage in local government planning conversations.

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How do electrification upgrades work together with other efficiency upgrades?

Efficiency upgrades complement electrification. We should increase energy efficiency incentives and layer incentives with existing energy efficiency programs.

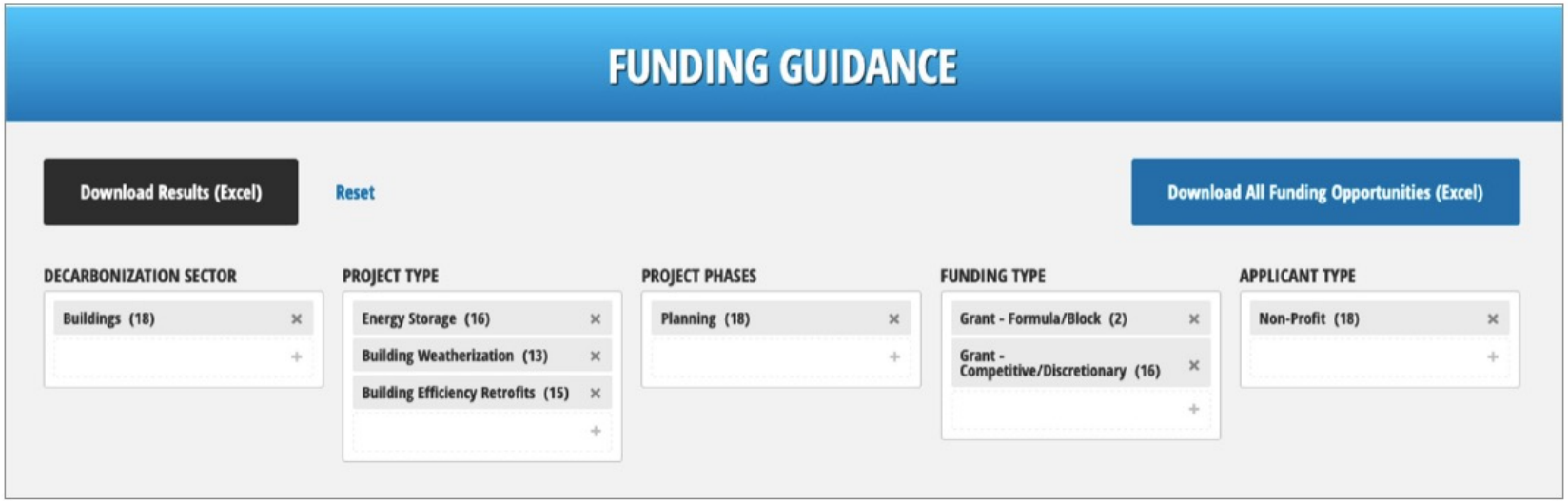
- With electric appliances demanding more electricity, complementary efficiency upgrades can relieve the strain on the system and potentially result in net energy reductions.
- A home's efficiency can influence the size and cost of electric retrofits. For example, homeowners who upgrade their insulation could downsize their heat pumps and reduce cost. Utilities, CCAs, and program administrators provide rebates to help pay for these projects.
- Air sealing and envelope measures completed without electrification can exacerbate the indoor air quality issues associated with fossil fuel appliances.

Further Reading:

- RMI, Decarbonizing Homes: Improving Health in Low-Income Communities through Beneficial Electrification, 2021
- RMI, Residential Energy+: Making Home Energy Upgrades Accessible, Convenient, Affordable, October 2015
- StopWaste, Accelerating Electrification of California's Multifamily Buildings, May 2021

FFOLD Tool

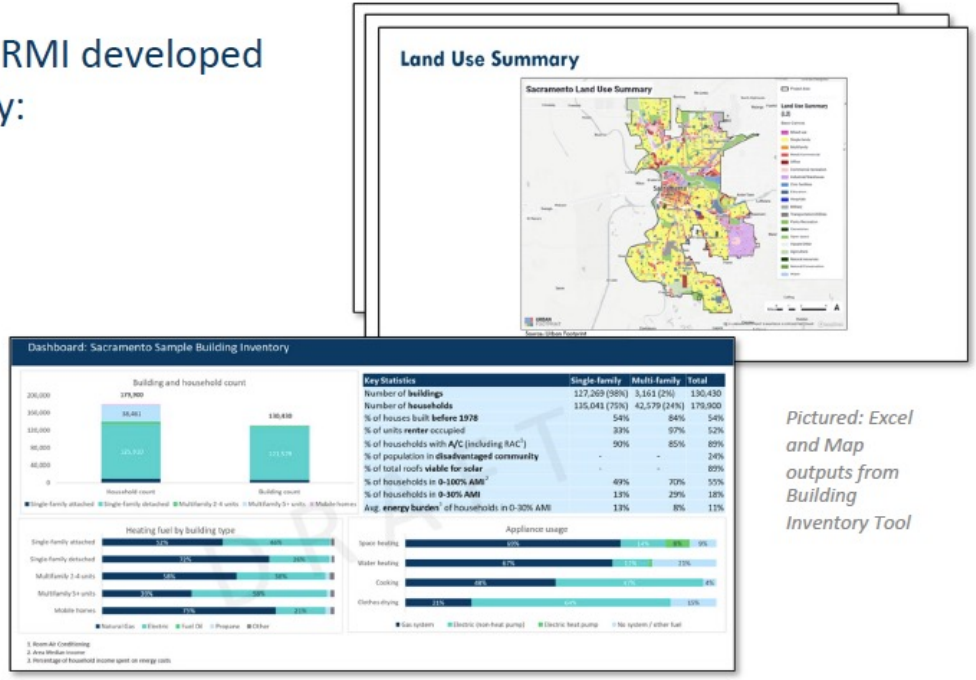
FFOLD ("Federal Funding For Local Decarbonization") is an up-to-date and thorough inventory of federal grants and loans. It can help teams scope work based on available and prospective opportunities.



Building Inventories*

To direct teams toward priority areas, RMI developed custom **Building Inventories** to identify:

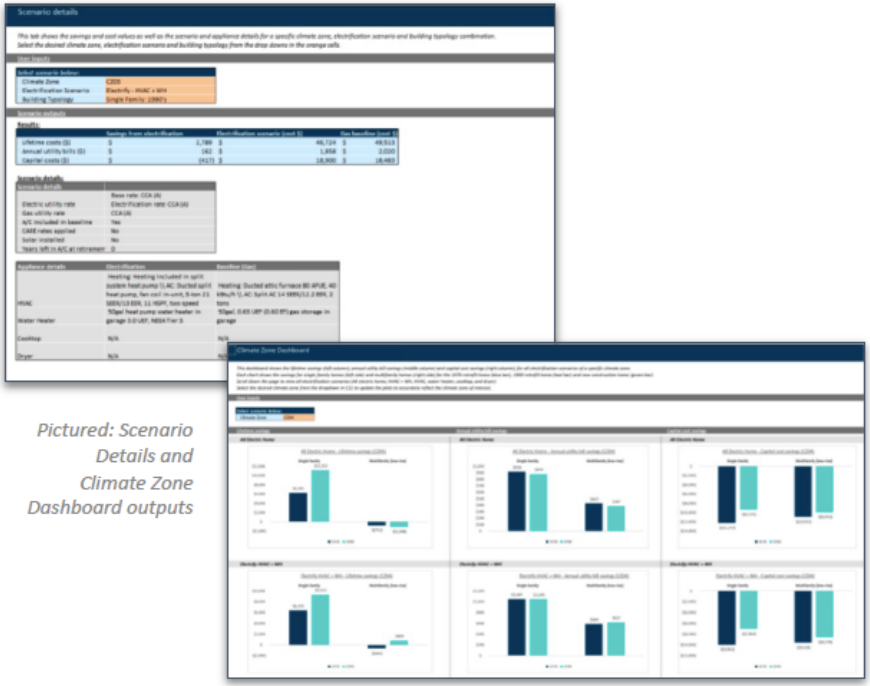
- **Building Types:**
  - Number of buildings, dwelling units
  - Physical characteristics (e.g., age, size)
- **Energy Use:**
  - Fuel types
  - Equipment and appliance types
  - Energy expenditures
- **Equity:**
  - Percentage of owners, renters
  - Median income, percentage LMI
  - Pollution levels
  - Asthma rates



Pictured: Excel and Map outputs from Building Inventory Tool

*Samples and guidance available

Cost Analysis Tool* *(CA Only)*



Pictured: Scenario Details and Climate Zone Dashboard outputs

- Based on reporting by **E3,** RMI's cost analysis tool includes:
  - Estimated capital costs
  - Estimated bill impacts
  - Estimated Lifetime costs
  - Projected utility tariff changes
- **Dynamic scenarios** show custom impacts based on the user's:
  - Climate zone
  - Building type and vintage
  - Electrification scenario

*Tool available upon request

Roadmap Action Menu

To help with teams' goal setting, RMI created an **Action Menu** listing actions adopted by leading cities. The Menu explores different paths to achieving the goal of equitable building electrification.

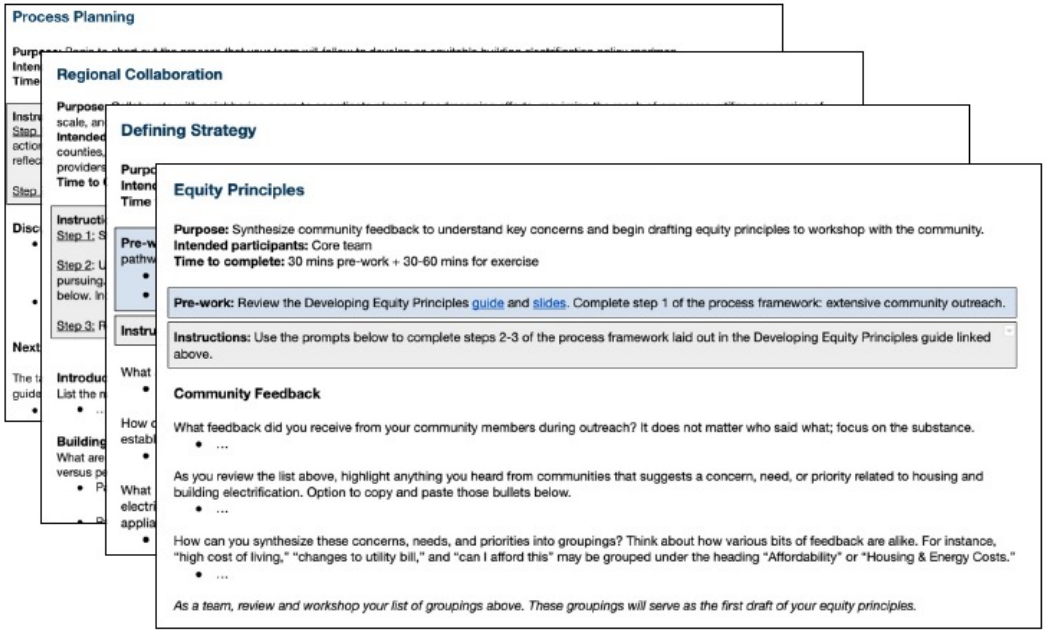
California Equitable Home Electrification Program
Roadmap Action Menu
Sources: Alameda, CA; Ann Arbor, MI; Berkeley, CA; Denver, CO; New York, NY; San Francisco, CA (Phase 2); San Francisco, CA (Phase 1); San Jose, CA

Note: Most Roadmap Actions are precisely worded and can be searched for (Cntrl F) in the documents above

Municipality	Roadmap Action	Targeted Completion	Upgrade / Technology Mandate Requirements and triggers to upgrade appliances, weatherization, and BE technologies	Upgrade / Technology Incentive Consumer-oriented funding, financial, and regulatory incentives to upgrade appliances, weatherization, and BE technologies	Tenant & Resident Protection Efforts to shield tenants and low income homeowners from electrification-induced costs and displacement	Workforce / Contractor Development Training offered to project designers, engineers, installers, etc. who will be paid to electrify buildings	Innovation & Market Transformation Industrial and supply chain improvements to produce cheaper, more efficient products	Commercial Buildings Efforts specifically affecting commercial (i.e. non-residential) buildings	Multi-Family Buildings Efforts specifically affecting multi-family buildings
Alameda, CA	Explore requiring electrical panel upgrade at sale	Phase 2	x						
Alameda, CA	Emulate the City of Berkeley's earthquake preparedness tax by creating a similar Refundable Electrification Transfer Tax	Phase 2							
Alameda, CA	Explore requiring electrification or efficiency retrofit at the point of sale	Phase 2	x						
Alameda, CA	Explore requiring both single family and multifamily residences to have a mandatory energy score or energy audit performed at the point of sale or leasing. Consider exemptions for homeowners that score at a certain level.	Phase 2	x						x

Community Collaboration Workbook

Developed from workshop exercises and intended to guide team conversations that directly inform a policy roadmap



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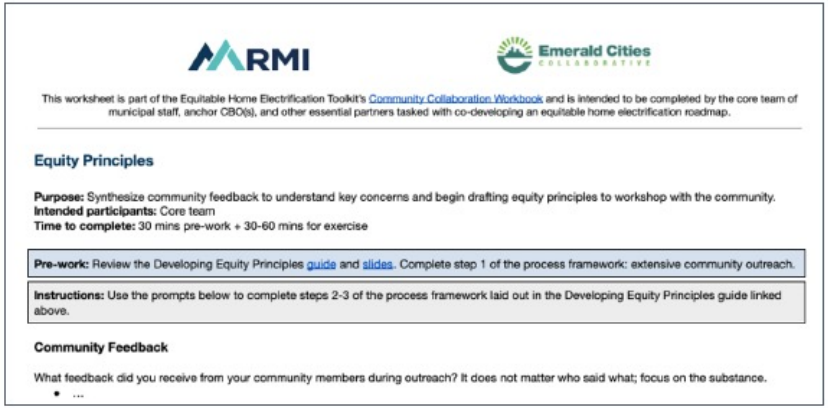
Equity Principles

Draft Your Roadmap
Roadmap Planning
Defining Strategy
Early Campaigns
Funding & Financing Opportunities
Housing Affordability Synergies

Equity Principles

Framework to define guiding principles that all future policy proposals must meet in order to address key concerns from communities through an iterative engagement process

Workbook exercise #11



RMI Emerald Cities COLLABORATIVE

This worksheet is part of the Equitable Home Electrification Toolkit's Community Collaboration Workbook and is intended to be completed by the core team of municipal staff, anchor CBO(s), and other essential partners tasked with co-developing an equitable home electrification roadmap.

Equity Principles

Purpose: Synthesize community feedback to understand key concerns and begin drafting equity principles to workshop with the community.
Intended participants: Core team
Time to complete: 30 mins pre-work + 30-60 mins for exercise

Pre-work: Review the Developing Equity Principles guide and slides. Complete step 1 of the process framework: extensive community outreach.

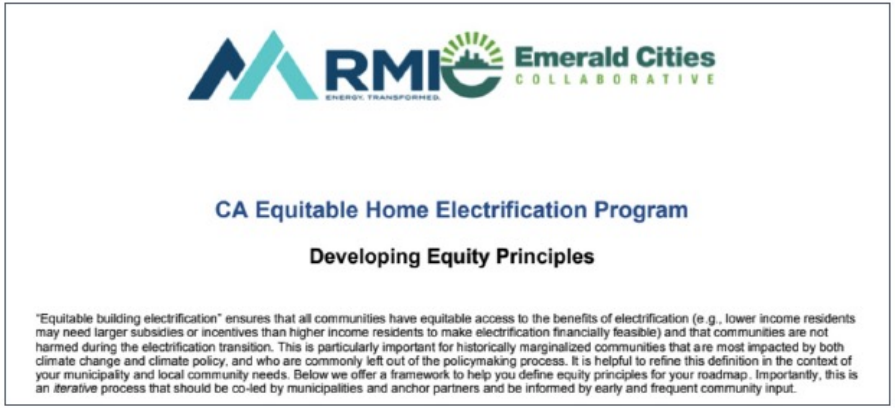
Instructions: Use the prompts below to complete steps 2-3 of the process framework laid out in the Developing Equity Principles guide linked above.

Community Feedback

What feedback did you receive from your community members during outreach? It does not matter who said what; focus on the substance.

- ...

Guidance Document (linked in exercise)



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CA Equitable Home Electrification Program

Developing Equity Principles

"Equitable building electrification" ensures that all communities have equitable access to the benefits of electrification (e.g., lower income residents may need larger subsidies or incentives than higher income residents to make electrification financially feasible) and that communities are not harmed during the electrification transition. This is particularly important for historically marginalized communities that are most impacted by both climate change and climate policy, and who are commonly left out of the policymaking process. It is helpful to refine this definition in the context of your municipality and local community needs. Below we offer a framework to help you define equity principles for your roadmap. Importantly, this is an *iterative* process that should be co-led by municipalities and anchor partners and be informed by early and frequent community input.

Agenda

Toolkit Background

Toolkit Highlights

Takeaways

Q&A

Takeaways

- **Walk before you run.** If you're not ready to create detailed policy, start by focusing on roadmapping (aka "a plan for the plan").
- **Enable an equitable process.** Seek the right frontline community partners to work with as collaborators.
- **Commit to equitable outcomes.** Codify equity principles and evaluate the social, economic, and racial impacts of potential policies.
- **Partnerships produce progress.** Invest in your partners! Fund CBOs for their engagement. Spend time on outreach and education.
- **This is a rapidly evolving space.** Anticipate a market shift and start working now before conditions are perfect.

Thank You!

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BPC Workshop

Topic: Forum Resources & LERN Feedback

- Resources from the 2022 CCEC are now available at **eecoordinator.info/library/**
  - Presentation slides and other supplementary materials are available now!
- **We want to hear from you!** Please take a few minutes to complete this feedback survey for LERN to inform our future planning efforts!

www.surveymonkey.com/r/W2RYY7S

Local Energy Resources Network

What's Next?

- Next meeting **November 8, 2022**
- Share invitation with others

CCEC Serves Local Needs

- wEEkly Update
- CURRENTS Quarterly
- Webinars
- Annual Forum

- Technical Assistance
- Technical Assistance Directory
- Local Government Roundtables

- Active Funding Opportunities
- Funding Program Database

- Best Practice Database
- Interviews and Case Studies