

Welcome!

Please help yourself to lunch!

Before 12:45, please take a few moments to fill out our Jurisdiction Check-In Google Doc



bitly



RICAPS Monthly Meeting

September 24, 2024



Jurisdiction Round-Robin: Verbal share out

30 seconds each

- A project you're interested in collaborating on?
- A project you need information or resources?



Agenda

12:00-1:10 - Lunch & Jurisdiction Round Robin

1:10-1:15 - Welcome & Agenda Review

1:15-1:25 - Announcements

1:25-1:35 - Building Electrification Measure
Quantification Tool

1:35-1:45 - Break

1:45-2:55 - Presentation from Noah Garcia, EVgo +
EV Charging Infrastructure Discussion

2:55-3:00 - Closing



Announcements



Thank you to Andrea Pappajohn for this space!



Welcome Anna!



Post meeting group photo!



Announcements: GHG Inventories



- **THANK YOU for releasing 2023 inventory data from PG&E!**
- A couple jurisdictions have not authorized the release of 2023 PG&E data – please release ASAP!
- Waiting on PG&E's Energy Data Request Program (EDRP) data; all activity data processed and starting calculations; on track to complete by end of November 2024



Announcements: Sustainability Department RFP



Countywide Heat Pump Water Heater Permit Simplification Pilot

Due Date: Monday, October 14, 2024 5:00pm

Goal: Support San Mateo County jurisdictions in **simplifying the permitting process for heat pump water heaters** to promote

1. Energy efficiency
2. Remove barriers to the transition from natural gas to all-electric appliances.

Initial Cohort: 10 out of 22 cities part of initial pilot cohort, not too late to join!



Events coming up!



Sizzle and Sisig: Induction Cooking Event with Celebrity Chef Reina Montenegro

- October 24, 6pm-8pm
- Induction Cooking Demonstration, in person South San Francisco Library: 120 person capacity
- Live-streamed as well!
- Vegan Filipino food



BayREN Green Labeling: Building your Green Team Meet & Greet

- October 11, 9am - 12pm
- Gathering of Program contractors, Real Estate Professionals, Building Departments, Lenders, Appraisers



Announcements: BAAQMD



Building Appliances Implementation Working Group (for zero NOx rules)

New website with resources and information about the implementation of the zero NOx rules

- [Workforce Challenges for Zero-NOx Requirements](#)
- [Challenging Use Cases and Emerging Solutions for Zero-NOx Appliances](#)
- [Renter Protections Policy Landscape Summary](#)



Announcements: BAAQMD



Bay Area Regional Climate Action Planning Kick-off Virtual Workshop

Come share your vision for a carbon neutral Bay Area!

Join the Air District as we officially kick off the process to develop a Comprehensive Climate Action Plan for the Northern and Central Bay Area region.

The Air District has an unprecedented opportunity to work with many public agencies, communities, and other stakeholders to develop a set of practical and equitable strategies to reduce the region's contribution to climate change.

September 30, 2024, 5:30 – 7:00 PM (Pacific Time) ([Register](#))

More information on the climate planning effort can be found [here](#).





Building Electrification Quantification

September 24, 2024

Ryan Gardner
Rincon Consultants



Building Measure Quantification



Tool Development

- **Purpose:** Quantify GHG emission reduction potential of several electrification ordinances.
- **Benefit:** Helps jurisdictions understand the potential impacts from different measures.

Tool Features

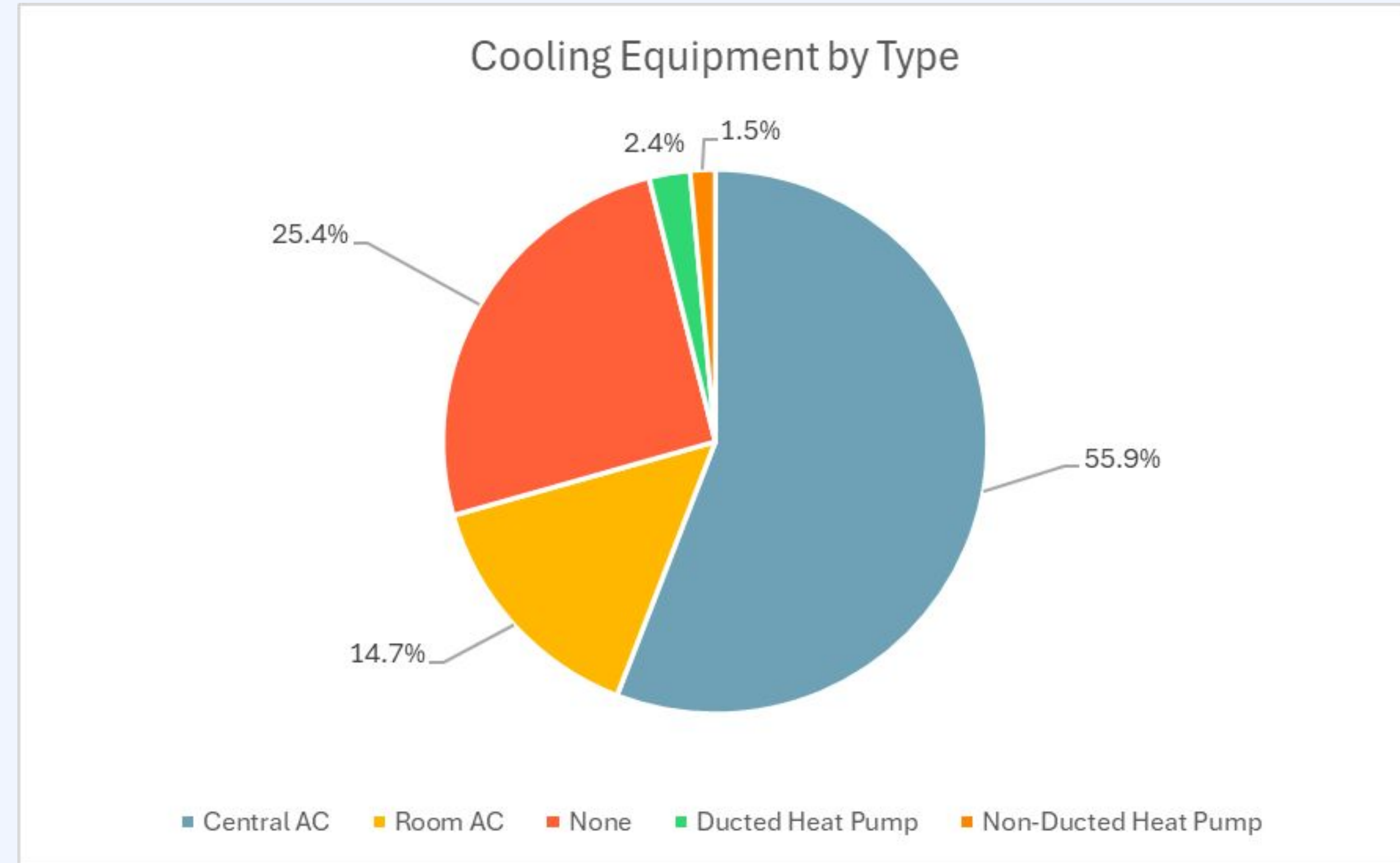
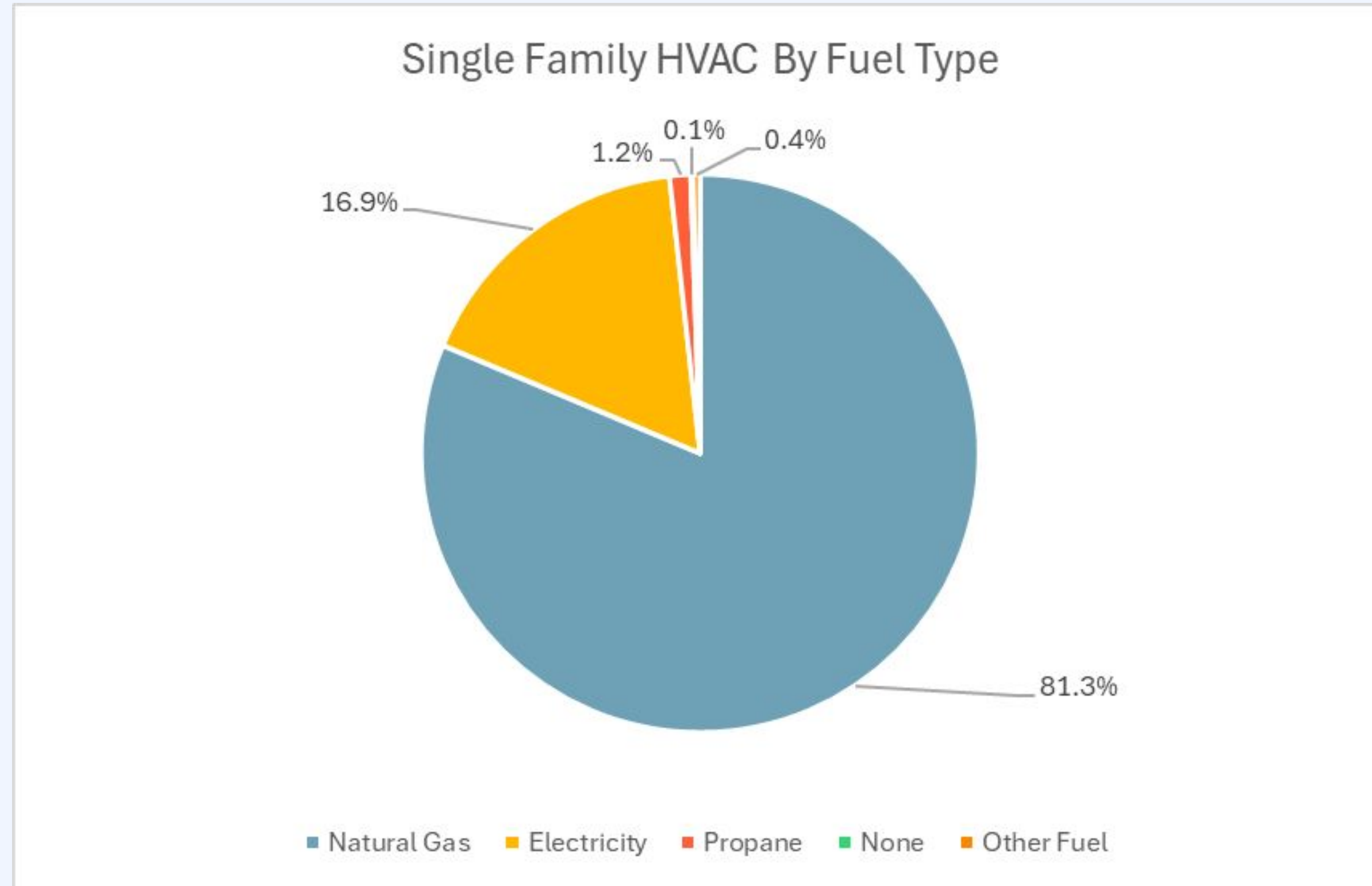
- **City-Specific Data:** Based on inventory and forecast data.
- **Customizable:** Can be run for different ordinances for each city.

Data Sources

- ReStock and ComStock Data for San Mateo County (NREL).



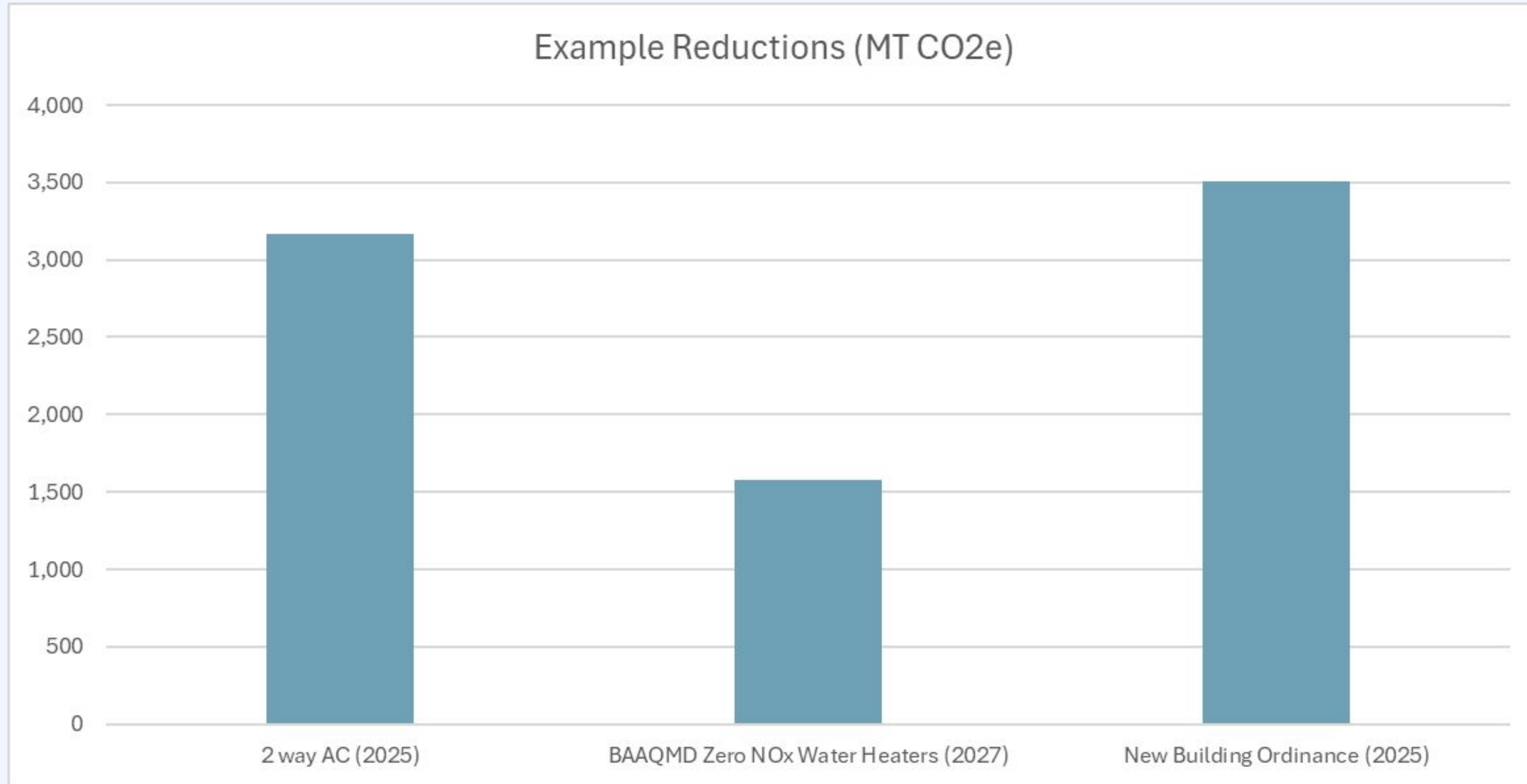
Building Level Modeling for San Mateo County



- First conducted in 1978, the Residential Energy Consumption Survey is a national sample survey that collects energy-related data for housing units occupied as a primary residence and the households that live in them.
- Nearly 18,500 households in housing units statistically selected to represent the 123.5 million housing units that are occupied as primary residences.



Most Impactful Actions - Example





BREAK till 1:35





EV Charging Planning Discussion

September 24, 2024

Avana Andrade
Senior Sustainability Coordinator, Office of
Sustainability, County of San Mateo

Ryan Gardner
Rincon Consultants



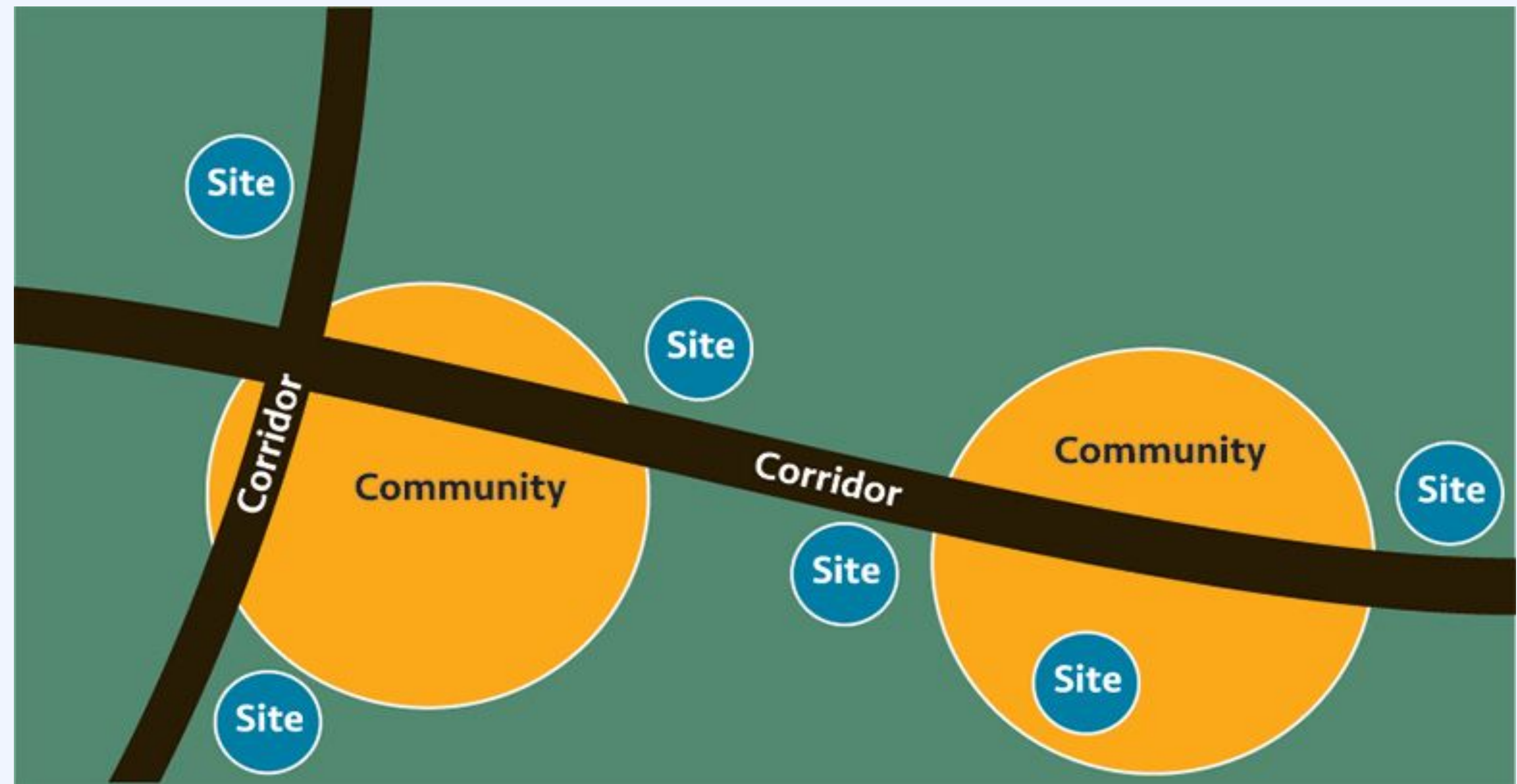
Intro Question



What is your role with respect to EV charging in your city?



Types of EV Infrastructure Planning



<https://www.transportation.gov/rural/ev/toolkit/ev-infrastructure-planning/planning-types#corridor-level-planning>

- **Corridor-level planning** supports infrastructure along roads and highways that facilitate inter-regional travel.
- **Community-level planning** considers infrastructure solutions to meet the diverse needs within a particular region or town.
- **Site-level planning** focuses on the procurement and installation of EV chargers for a predetermined location.



Example EV Infrastructure Plan

Contra Costa County



Identifies existing and required infrastructure

Map existing infrastructure and identify gaps/needs

Generate strategies/framework for moving infrastructure forward

Table 8. Comparison of Current County EVSE Availability with Projected Needs from the CEC Study

	Workplace Level 2		Public Level 2		Fast Chargers		Total ²²	
	Low	High	Low	High	Low	High	Low	High
Projected need by 2025 (Source: CEC)	1,195	1,507	2,107	2,420	352	674	3,654	4,601
Current number of plugs (Source: Plugshare, as of March 2019)	221 ²³		342		52		615	
Percentage of projected need already built	15%–18%		14%–16%		8%–15%		13%–17%	

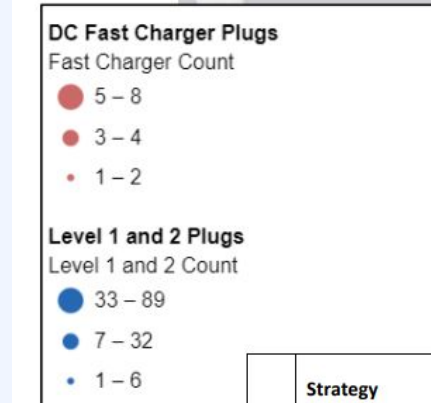
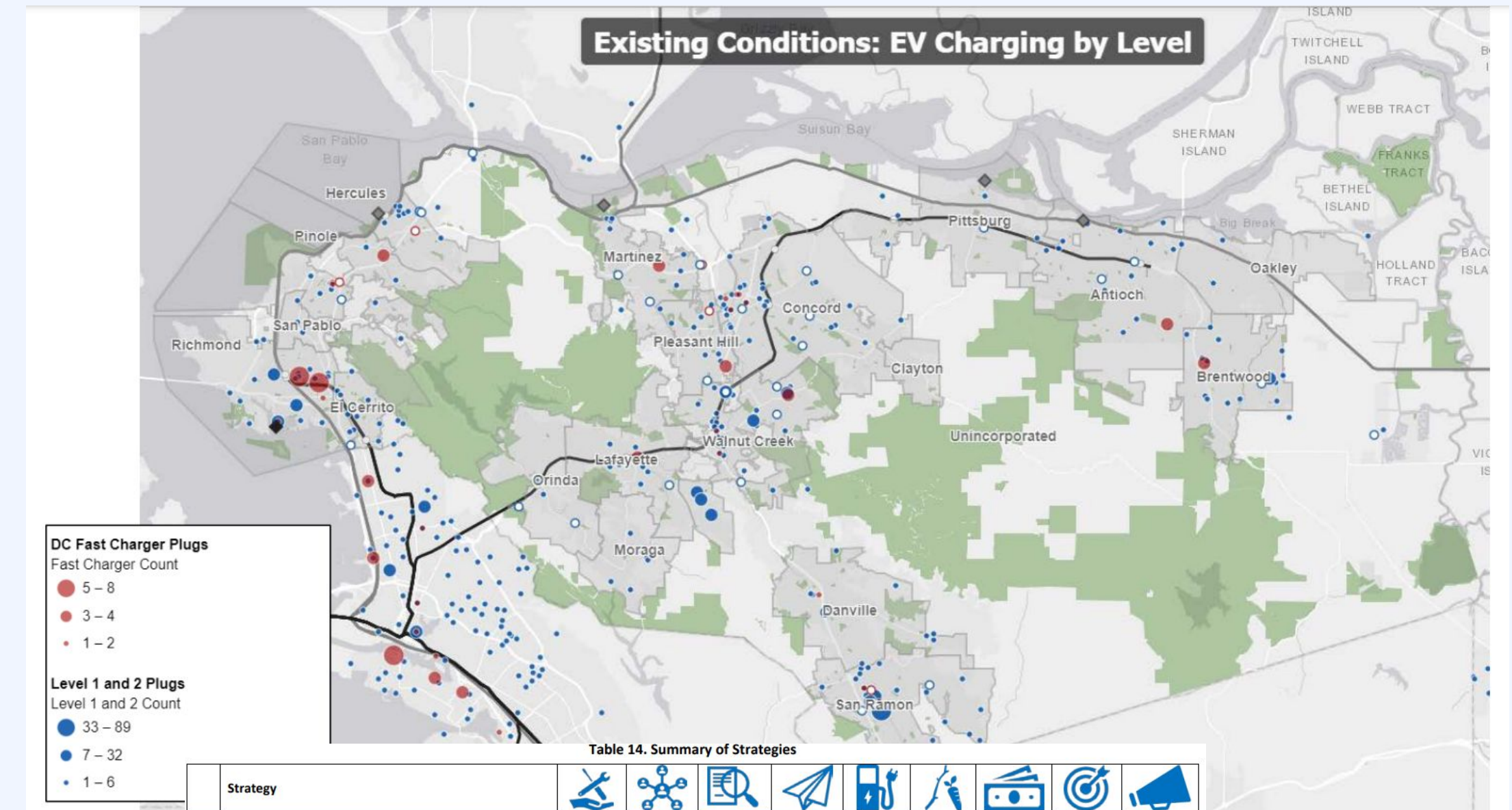


Table 14. Summary of Strategies

Strategy	Icon 1	Icon 2	Icon 3	Icon 4	Icon 5	Icon 6	Icon 7	Icon 8	Icon 9
Continuously Assess Needs									
Install Infrastructure in Priority Areas									
Implement Low-Income Customer Outreach and Education Program									
Amplify Regional Outreach to Consumers, Site Hosts, and Other Entities									
Adopt and Promote EV Reach Codes									
Adopt and Promote Streamlined Permitting									
Contribute to a Regional Charging Network and Engage in Statewide Policy									
Integrate EV Readiness with Growth Management									
Track Progress									
Electrify County Fleets and Encourage Fleets Within Jurisdictions to Electrify									
Implement Scalable Shared, Electric, Connected, and Autonomous Vehicle Pilots									
Expand Pilot Programs to Provide Electric Mobility Services to Underserved Populations									
Integrate EV Carpool and Shuttle Services into County 511 Programs									
Incorporate EV Resilience Planning into County Preparedness Strategies									
Pilot Wireless Inductive Charging on Streets									
Implement and Enhance Shared Mobility Hubs with Electric Options									
Explore Options to Disincentivize Usage of ICE Vehicles and Incent Their Replacement									

Check it out here: [Contra Costa EV Blueprint](#)

Example EV Infrastructure Plan

Culver City



Identifies existing and required infrastructure

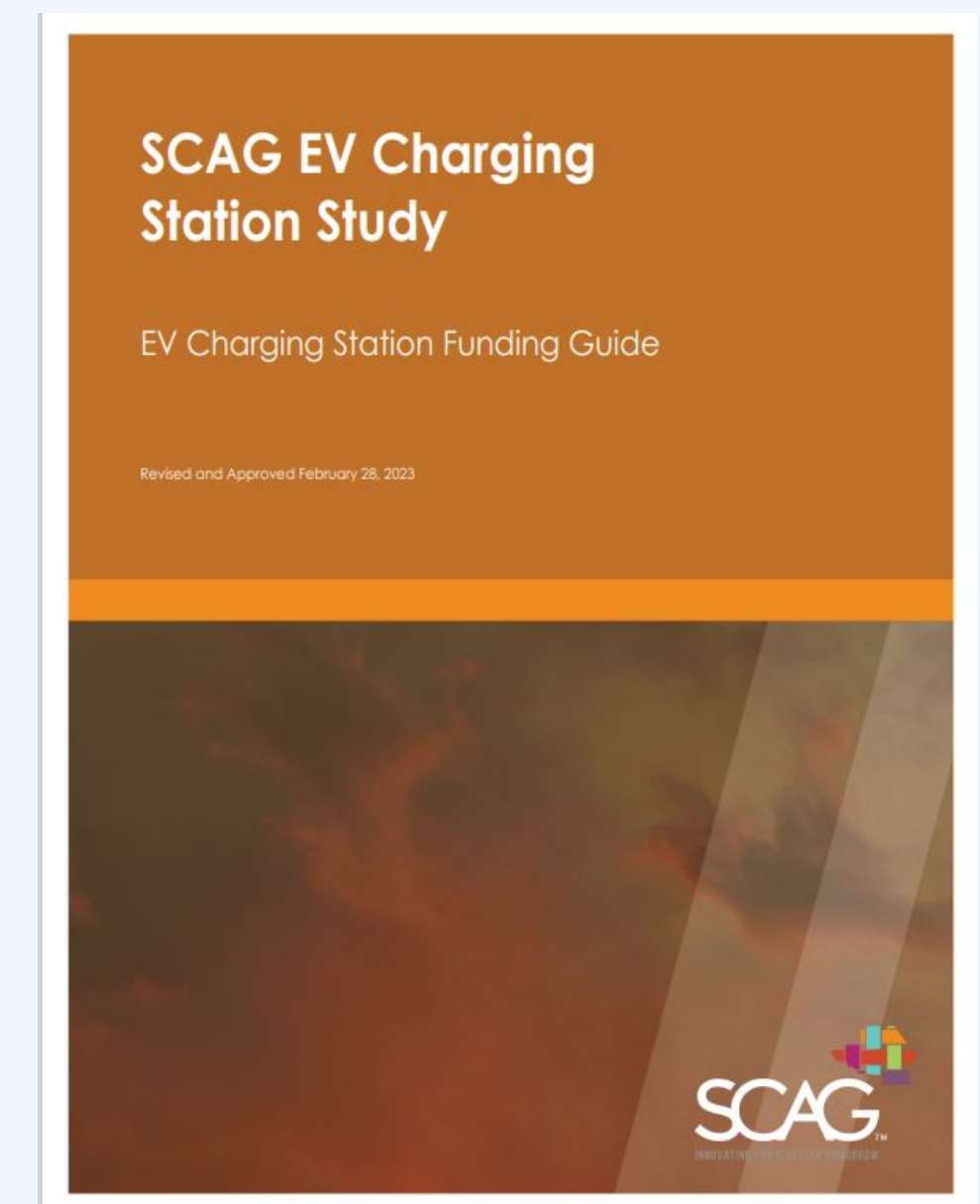
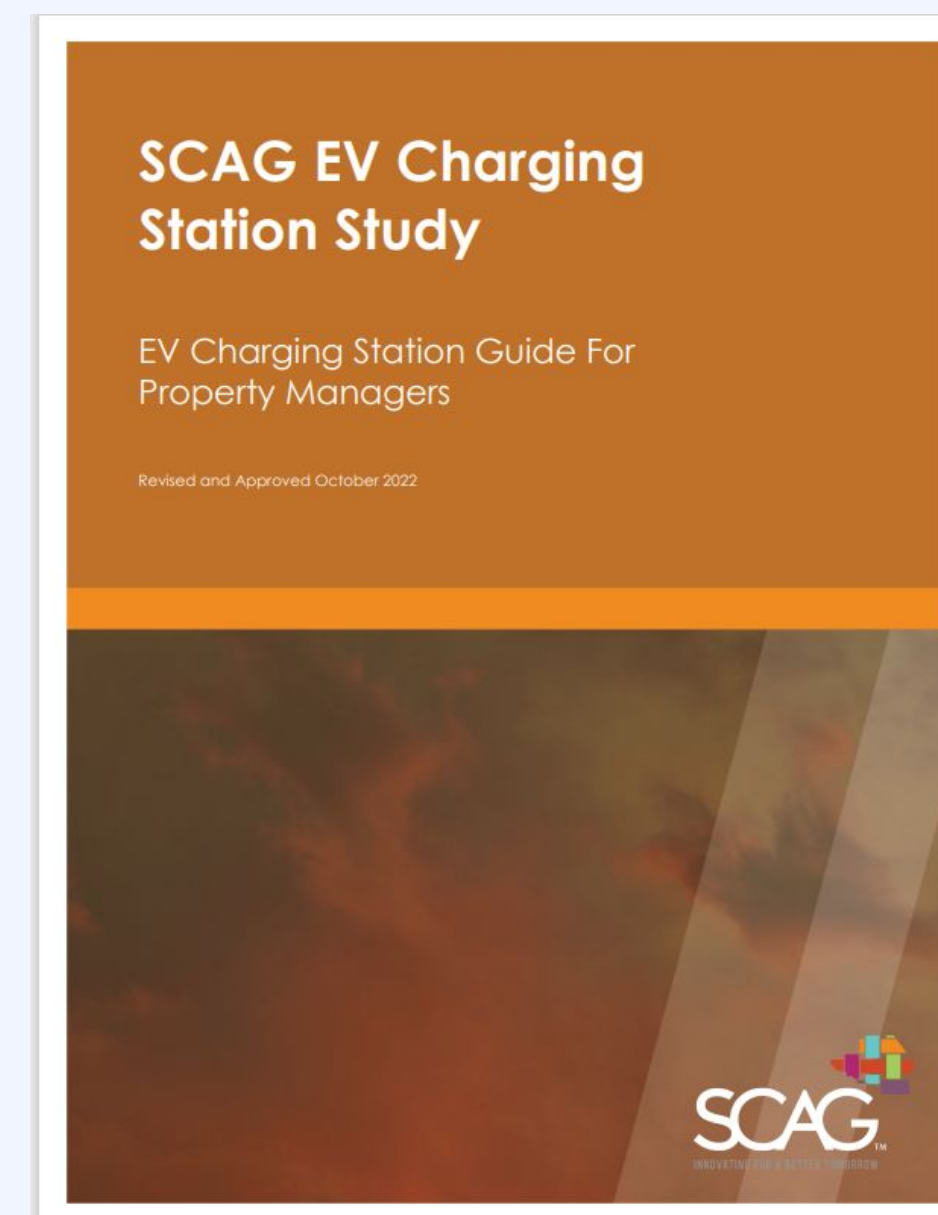
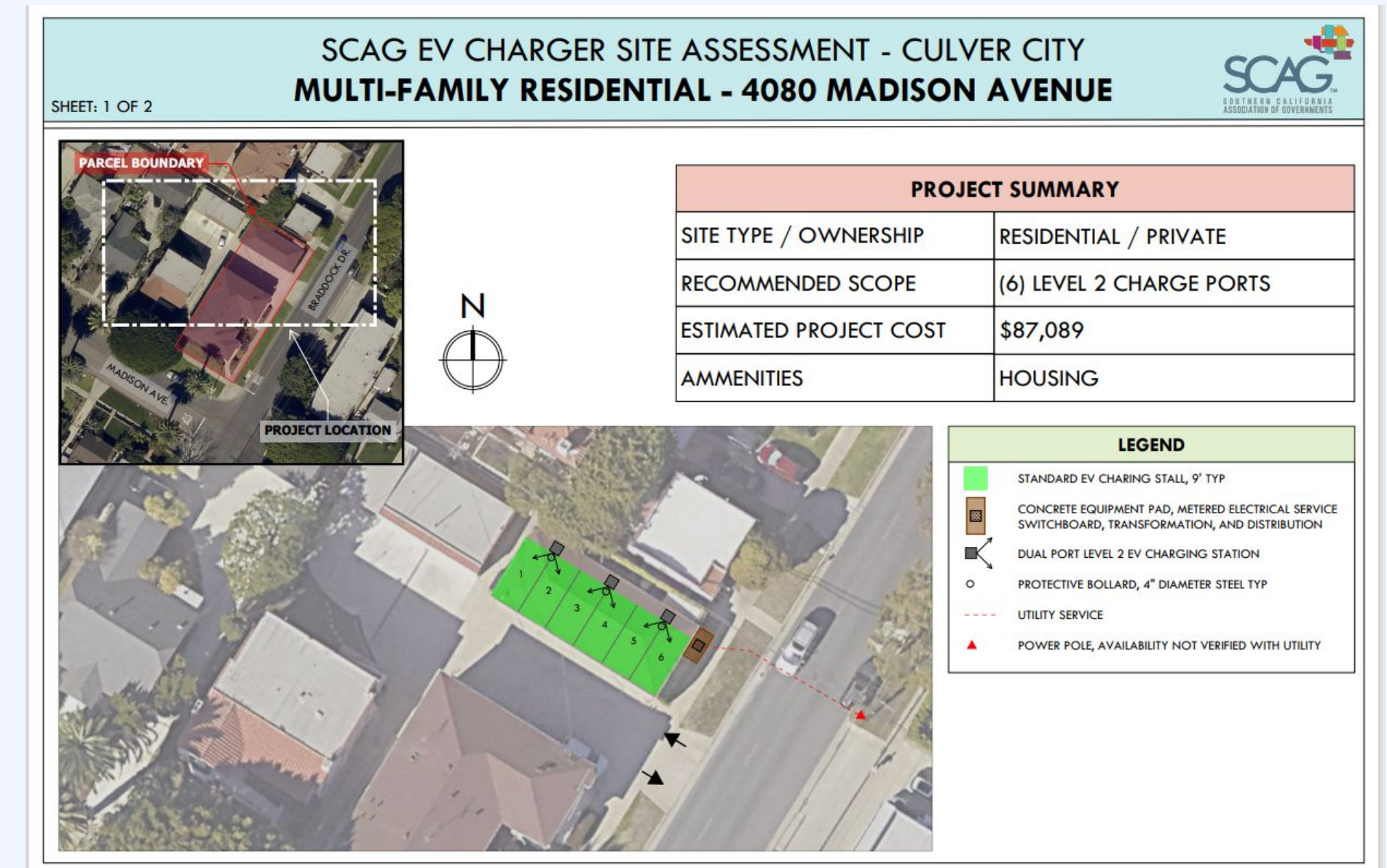
Site Level Analysis and Planning

Guide for Property Managers

EV Funding Guide

Educational Materials

Check it out here: [Culver City EV Charging Study](#)



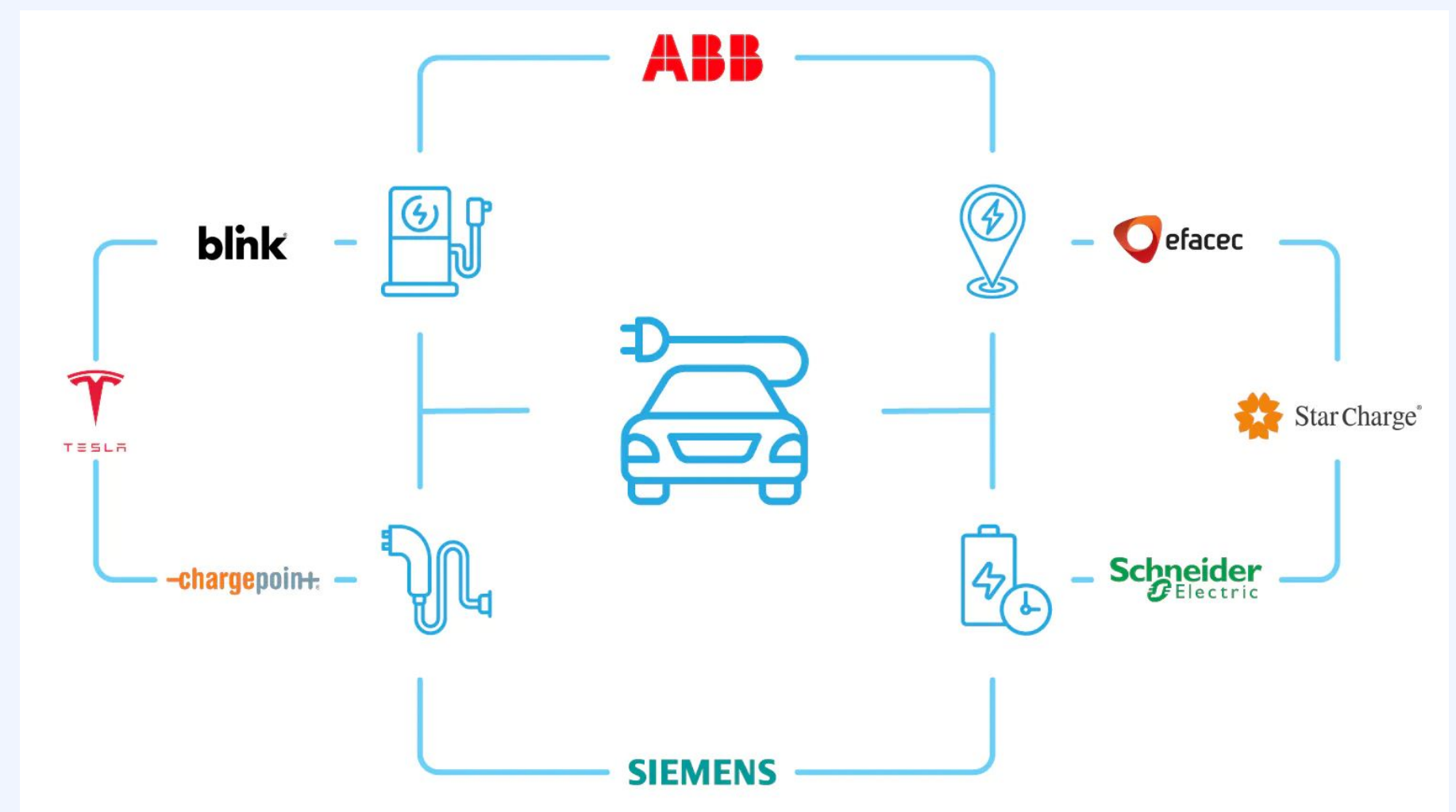
Limitations of Jurisdiction EV Infrastructure Planning

Jurisdiction's primary role:

- Remove hurdles as appropriate
- Incentivize & regulate installation
- Provide information to inform site selection
- Public engagement
- ***Role on private chargers on public right of way?***
- ***Attn to equity b/c private capital isn't going to focus on that***
- ***Interacting with PG&E to id locations with enough electrical capacity already AND whether the demand for charging is there***

Others? Does this look right?

EV infrastructure installation driven



Industry Perspective

September 24, 2024

Noah Garcia
Manager, Market Development & Public Policy
EVgo



Breakout group discussion

Topic:
EV Charging Planning Needs?

*** Shake Things Up! ***

Join a group with folks you haven't worked closely with yet!



What are your current EV planning needs?

Refer to next slide for ideas to get you started.



Breakout Group Discussion Questions:

- ** Please identify a scribe who will take notes and report out! ****
1. Did any of the industry insight **surprise** you?
 2. Do you see any of the opportunities/challenges Noah described **play out in your own jurisdiction**?
 3. Does your jurisdiction **currently plan for where EV infrastructure** gets built?
 4. Is your jurisdiction currently active in **implementing public EV charging infrastructure**? What does this process look like? Timing, people/departments involved etc.

Larger Group Report Out:

1. Any common themes?
2. Did anything particularly strike you?



1. Any common themes?

Group 1: Carri

- Maintaining inf and vehicles - costly and logistically intense, for public and private sectors
- Are there sites with lower actual needs for chargers (1-2 chargers): hard to find a solution to get those installed b/c its such a small amount. There are some public stations in SMC where they only need ~1 charger
- comparison electric power vs gas in terms of pricing
- REC: Volts podcast! and Org - It's electric for curbside

Group 2: Forest:

- Debate about the need for a plan, private industry filling the gaps on its own
- Places that are less dense where a plan might be good "EV deserts"
- Role for advocates: golden number for number of chargers in SMC
- Concern for equity: in MF developments: ability to connect with PCE to build out capacity on their own
- Desire for turnkey solution where the op and maint is taken care of by a single entity

Group 3: Ryan

- ID gaps in network for equitable access
- Swaps for less revenue driving spots: density bonus
- Looking for examples in the county where ministerial approval is happening
- Looking at interesting land use types and co-locating: can we add concessions/coffee



What can we do?

There's lots we can do! But it's important to focus efforts in ways that will **make meaningful changes.**

Here's how jurisdictions could support EV infrastructure installation:

- Amend zoning ordinances
- Amend parking ordinances
- Promote curbside parking installation
- Streamline permitting processes
- Require for Green Business Program
- Collaborate with private industry EV infrastructure companies to coordinate mass installation
- Launch public engagement and education campaigns



Final Reflection Questions



Considering local characteristics what Noah shared around industry insight and the levers jurisdictions can pull with regards to EV infrastructure installation...

1. What type of regional planning effort would be most helpful to increase EV infrastructure installation in San Mateo?
2. What type of EV charging planning makes most sense for RICAPS to focus on?



Thank you!



Post meeting group photo!



Group Discussion

Questions from August RICAPS follow-on

For our September meeting, we, the RICAPS team, will delve into EV infrastructure planning with the group. We would like to determine what assistance in this domain could look like for individual jurisdictions or for the community countywide. We'd like to start with some ground level questions to help us shape the conversation. **Please review these questions in advance of the meeting in September and come prepared to discuss in groups.**

- *What is your role with respect to EV charging in your city?*
- *Who else is/would be involved?*
- *Does your city have an EV charging infrastructure goal or plan in place? If so, what is it?*
- *What hurdles have you encountered while developing EV charging within your city?*

PRESENTATION: AVA/Chargepoint

- *What information would make the installation of EV charging infrastructure easier/faster? Priority locations identified? Funding/connection to private development or investment? Standards and pre-approved plans? Other?*
- *What are other sticks that cities can put in place?*
 - a. Parking regulations (parking maximums etc)*
 - b. Identifying public space that can be dedicated to charging*
 - c. Ordinances: when replacing lighting*
 - d. Include EV charging as a requirement in local green business programs?*
 - e. Offer access to publicly owned land for EV charging development through long-term lease agreements. e.g. a coalition of cities makes X parking spaces at y total city-owned locations available for private charging companies to add charging. probably best if it's a large group of sites across many cities to help get more competitive offers. **this might be the one with the most impact.***



What do you think is a city's biggest role when it comes to EV charging installation?

1. Permitting?
2. Location Identification?
3. Ownership Structure?
4. Funding?
5. Other Barriers?



Typical elements of an EV Infrastructure Plan:

Context Setting

- **Baseline Assessment**
 - Current state of EV infrastructure
 - Analysis of existing EV adoption and EV infrastructure usage
- **Needs Assessment**
 - EV transition goals
 - EV infrastructure needs (can be comprehensive)
- **Stakeholder Engagement**
 - Identify key partners for implementation
 - Strategy for engagement
- **Zoning and Building Codes**
 - Review of local zoning laws and building codes
 - Permit streamlining
 - Recommendations for updates to support EV infrastructure
- **Infrastructure Design and Standards**
 - Design standards for installation and integration w/ existing infrastructure



Typical elements of an EV Infrastructure Plan:

Key Considerations

- **Equity and Access**
 - Define equity and access concerns
 - Assess current equity and access concerns with existing infrastructure
 - Discuss strategies for Plan implementation
- **Ongoing Maintenance**
 - Uptime and reliability standards
 - Strategies and standards for ongoing maintenance for existing and new infrastructure
- **Funding and Incentives**
 - Identification of potential funding sources
 - Summary of incentives/rebates for installation
- **Barriers to EV Adoption**



Typical elements of an EV Infrastructure Plan:

Plan Implementation

- **Site Selection and Analysis**
 - Criteria for selecting and prioritizing sites
 - Analysis of potential sites (equity, demand, grid capacity, etc.)
- **Public Outreach and Education**
 - Campaigns to raise awareness about EV benefits and infra
- **Implementation Plan**
 - Detailed timeline and milestones for Plan rollout
 - Roles and responsibilities of different stakeholders
- **Monitoring and Evaluation**
 - Metrics for assessing success of Plan
 - Strategies for ongoing monitoring and adjustments



1. Does your jurisdiction currently actively plan for where EV infrastructure gets built?

1. If so, what does this process look like?
Timing, people/departments involved...
2. How does a site get selected?
3. Who are the companies involved?
4. Have you collected any data or received input from residents in your city about EV infrastructure barriers?
5. Is there any missing information in this process? What do you wish you had more capacity to do?



Key Questions Addressed in the Explainer

...



What causes power outages?



Will building and vehicle electrification cause more power outages?



What should local governments do to meet climate goals while keeping the grid resilient?



This explainer can be used as a communication tool for:

- Public
- Electeds
- City staff





1. How do you envision using this explainer?
2. How will you use this information to support building electrification?
3. Who else would benefit from this information?
4. What format would be most useful for you to distribute this information (e.g. hard copy; PDF on website)?



Discussion/ Questions



Methane Gas Catalog Tool Roadmap

- Final report to be released in August
- Purpose: Show findings on existing gas equipment in City facilities from pilot group bring roadmap forward to electrify equipment
- Target Audience: City staff, public works/ facilities, electeds, sustainability staff



San Mateo County Municipal Electrification Roadmap

Methane Gas Catalog Tool

prepared with the assistance of

Rincon Consultants, Inc.
449 15th Street, Suite 303
Oakland, California 95612

Willdan
1939 Harrison Street, Suite 430
Oakland, California 94612

May 2024



Break! Please Return In
10 minutes

