SAN MATEO COUNTY
Sustainability Department

RICAPS Monthly Meeting

February 25, 2025

C/CAG City/County Association of Governments of San Mateo County

SAN MATEO COUNTY ENERGY WATCH

PENINSULA CLEAN ENERGY

RICAPS technical assistance is available due to funding from the City/County Association of Governments (C/CAG), Peninsula Clean Energy, and the San Mateo County Energy Watch program, which is funded by California utility customers, administered by Pacific Gas and Electric Company (PG&E) under the auspices of the California Public Utilities Commission and additional funding provided by Peninsula Clean Energy.

Agenda

1:30-1:35 - Welcome & Agenda Review

1:35-1:40 - Announcements

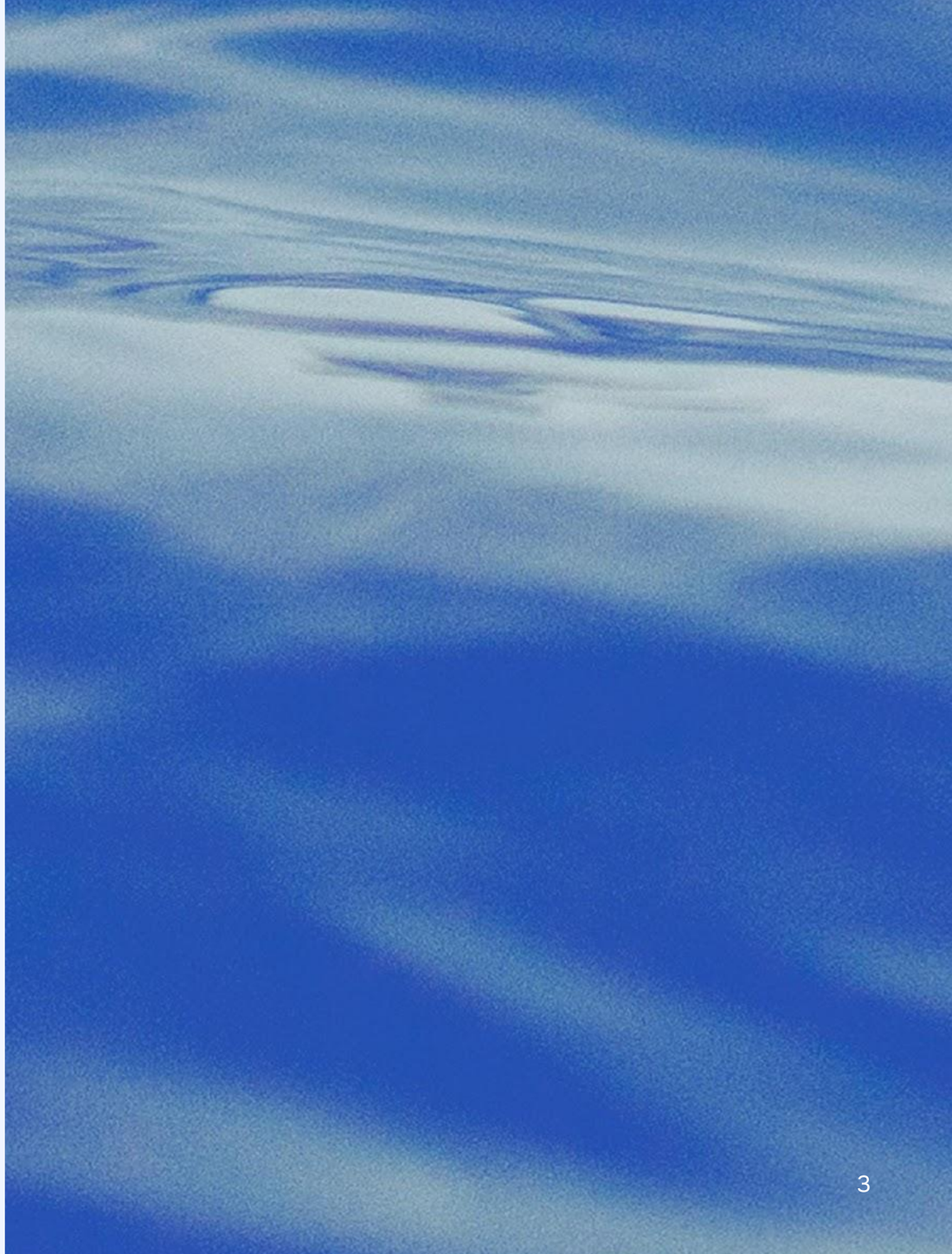
1:40-2:25 - Charting the Course for 2025 Reach Codes - TRC

2:25-2:45 - Jurisdiction Round Robin Updates

2:45-2:55 - *Did you know we can help you with that?* RICAPS Tool and Resource Review

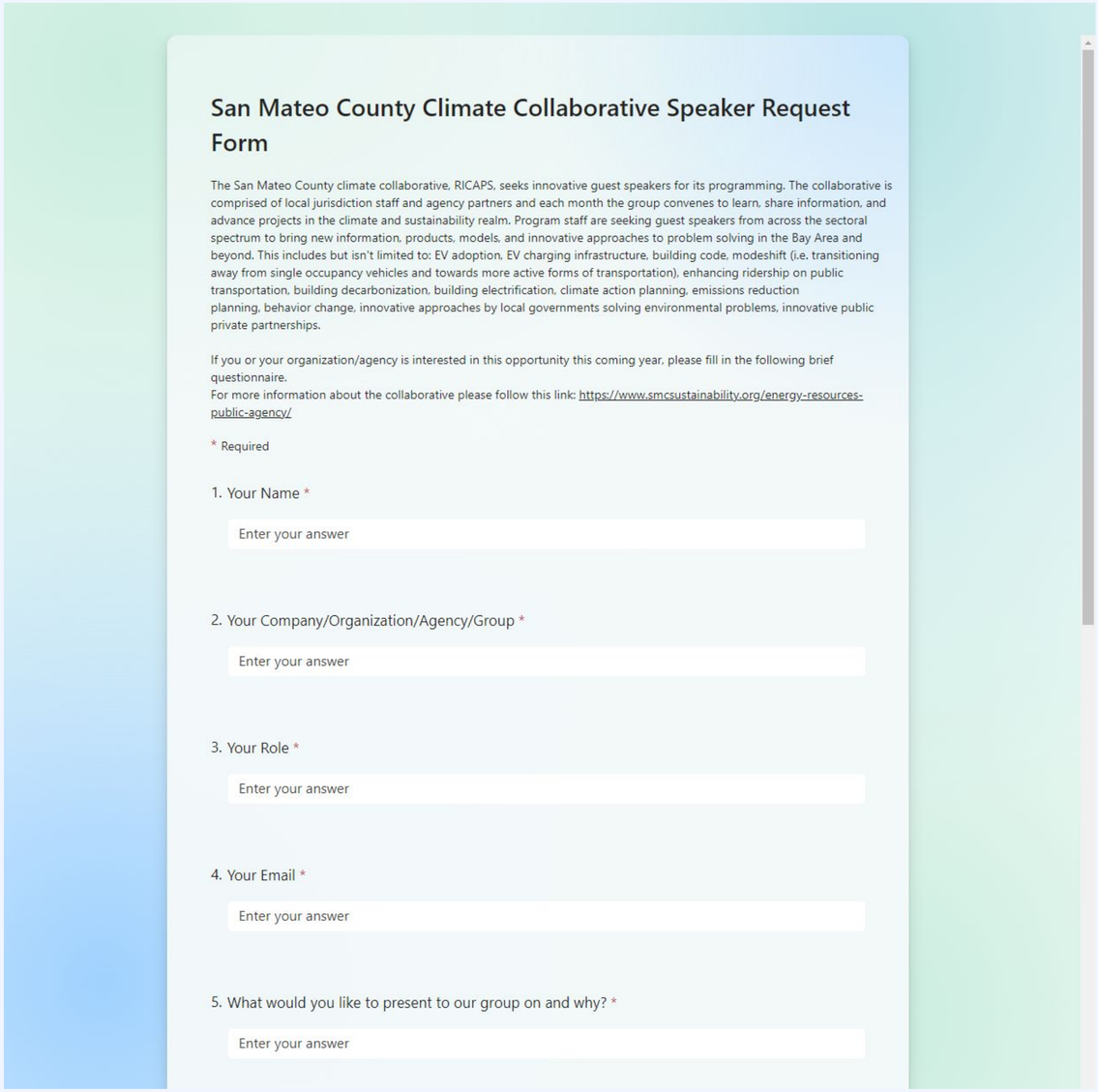
2:55-3:00 - RICAPS Website?!

3:00 - Closing



Announcements

Survey for Guest Speakers at RICAPS



San Mateo County Climate Collaborative Speaker Request Form

The San Mateo County climate collaborative, RICAPS, seeks innovative guest speakers for its programming. The collaborative is comprised of local jurisdiction staff and agency partners and each month the group convenes to learn, share information, and advance projects in the climate and sustainability realm. Program staff are seeking guest speakers from across the sectoral spectrum to bring new information, products, models, and innovative approaches to problem solving in the Bay Area and beyond. This includes but isn't limited to: EV adoption, EV charging infrastructure, building code, modeshift (i.e. transitioning away from single occupancy vehicles and towards more active forms of transportation), enhancing ridership on public transportation, building decarbonization, building electrification, climate action planning, emissions reduction planning, behavior change, innovative approaches by local governments solving environmental problems, innovative public private partnerships.

If you or your organization/agency is interested in this opportunity this coming year, please fill in the following brief questionnaire.
For more information about the collaborative please follow this link: https://www.smcsustainability.org/energy-resources-public-agency/

* Required

1. Your Name *

Enter your answer

2. Your Company/Organization/Agency/Group *

Enter your answer

3. Your Role *

Enter your answer

4. Your Email *

Enter your answer

5. What would you like to present to our group on and why? *

Enter your answer

BayREN Events

Up to half of a building's carbon emissions are produced before the doors even open. These "embodied carbon" emissions are created during the manufacture, transportation, maintenance, and disposal of building materials. This forum will discuss how California's Green Building Code addresses embodied carbon, design choices that can reduce emissions over a building's lifecycle, and **how local governments can lead the way in addressing embodied carbon**.

Wednesday, March 19, 2025 9:00 - 12:00 PM

Link to register in the chat

Apply now to participate in BayREN's Decarbonization Showcase, a new service designed to help local governments and special districts transform their public buildings into showcases for decarbonization.

The Showcase will enroll a small selection of public buildings - approximately 10 - in different climate zones in the Bay Area to assist them with decarbonizing their building operations. Projects will implement recommended measures for energy efficiency, distributed energy resources, electrification, and demand response to demonstrate how public buildings can significantly reduce or eliminate emissions.

Selected participants will benefit from three core offerings:

- **Free Professional Engineering Assessments**
- **Funding & Financing Assistance**
- **Ongoing Technical & Engineering Support**

Key Dates

February 25, 2025 – Application question period closes. Submit your questions to publicbuildings@bayren.org.

March 18, 2025 – Application period closes. All applications must be received by 5:00pm PST to be considered.

Additional Announcements...

Green Cities CA Opens Up All-Network Call for Local Gov Staff Discussion about Influencing Utility Rates in CA

February 27, 2025 All-network call to non-GCC CA jurisdictions and extend the time to 90 minutes (3:00-4:30 pm). This first session of a three part discussion series is designed for local government staff to **explore strategies for advocating and influencing utility rates in California**. The discussion will be structured in two parts. First, we will be joined by a series of guest speakers who will present on key topics, including the drivers of electric rates, grid benefits of distributed energy resources, and potential solutions to high electricity costs. Then, after our guest speakers leave, we will have a private conversation among local government staff to share takeaways, ask questions of their peers, and coalescing around potential solutions. **See full agenda, here.**

Because this discussion, which is exclusive to California local government staff, is an open and extended meeting, we ask that you register in advance and help spread the word by sharing the registration link with other local government staff from your city and neighboring jurisdictions who might be interested. **Please register here**.

We hope you can join us for this important conversation, as we work to identify actionable approaches to ensure affordability, equity, and sustainability in energy policy.

Bay Area Regional Climate Action Plan Survey

The Bay Area is taking the lead on addressing global climate change, and we need you to weigh in on how we do it: **Please take our Bay Area Regional Climate Action Plan (BARCAP) Survey today!**

We are gathering feedback from Bay Area communities on priorities and concerns regarding regional climate goals and potential strategies and actions. Public input is critical to guiding the priorities for BARCAP development — *we urge you to forward this on to your networks*.

This survey takes 5-10 minutes to complete**.** Submit a response for a chance to win one of four $50 Amazon gift cards!

PCE’s Energy Advisor and Turnkey Services are LIVE!!!

In-house call center

- Better customer experience
- Support on programs

Electrification Advisor

- Personalized 1-on-1 support
- Scheduled service

Free upgrades for income-qualified residents

- Whole-home electrification at no-cost

Incentives and fixed pricing for all other residents

- PCE-backed installation with select vetted contractors

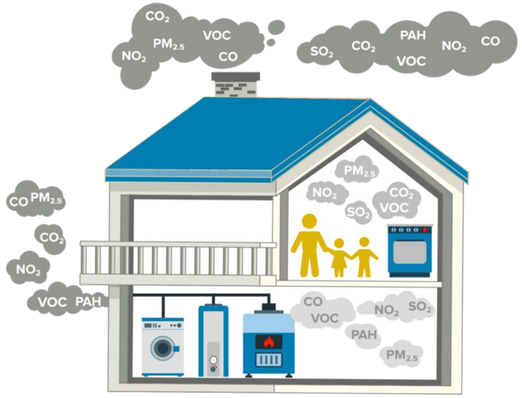
Charting the Course for 2025 Reach Codes

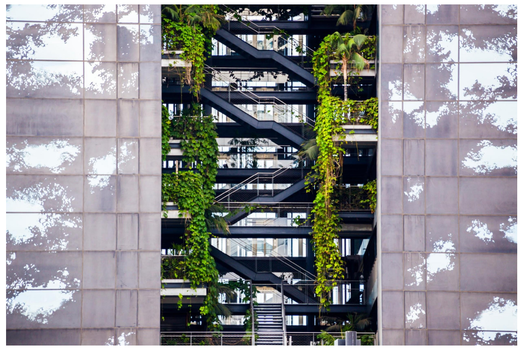
RICAPS Meeting

Feb 25, 2025

Purpose

1. Understand regular reach code opportunities.
2. Introduce potential alternative reach codes.
3. Foster opportunities for jurisdictions to connect, ask questions, and find alignment.
4. Identify jurisdiction reach code priorities and resource needs.

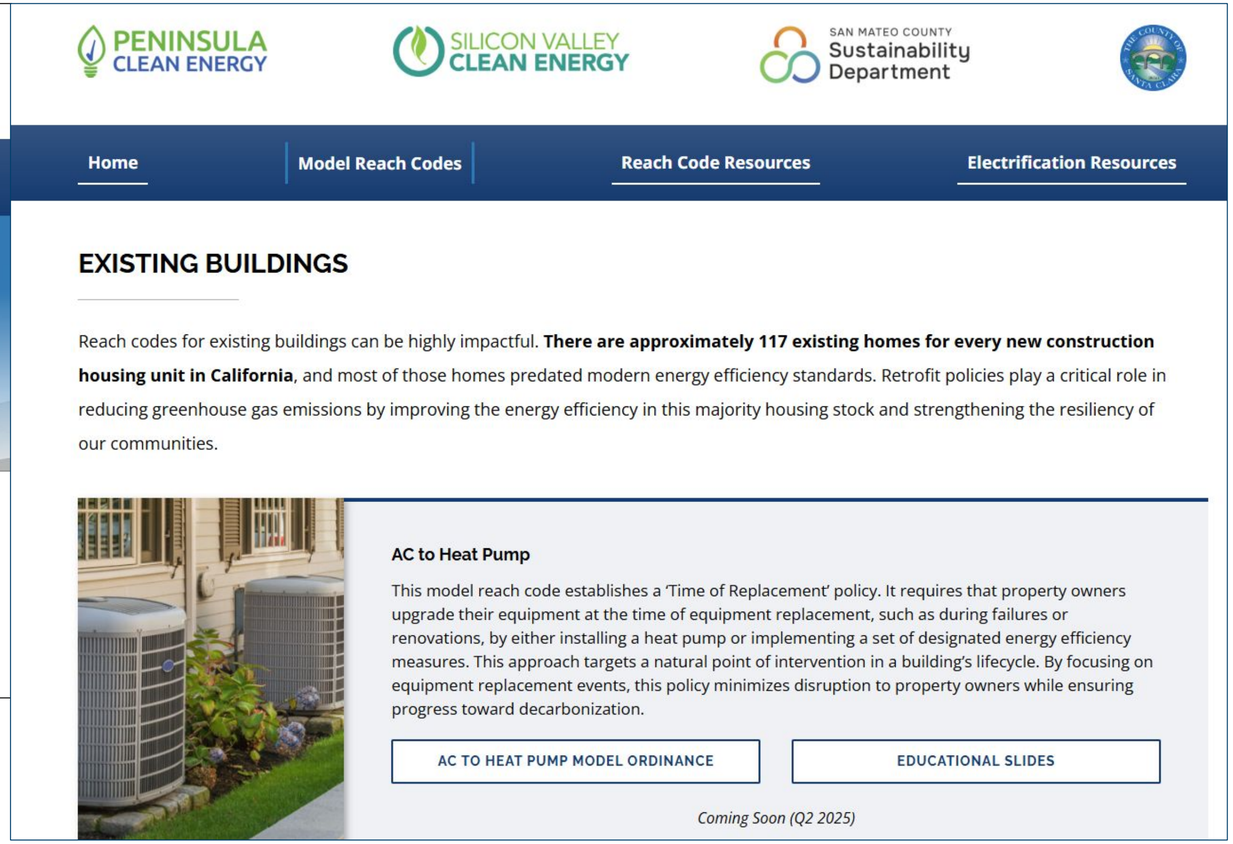




Topics	Timing
Introduction	3 min
Regular Reach Code Approaches	15 min
Discussion	*10 min*
Alternative Reach Code Approaches	15 min
Discussion	*10 min*
Survey	10 min
Closing	2 min

Reach Codes Website Update

BayAreaReachCodes.org



Regular Reach Code Approaches

Reach codes with available information today

- **Existing Buildings**
  - AC to HP
  - SF FlexPath
  - Electric Readiness
- **New Construction**
  - Energy Performance

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Reach Code Poll

What was the last reach code your jurisdiction adopted?

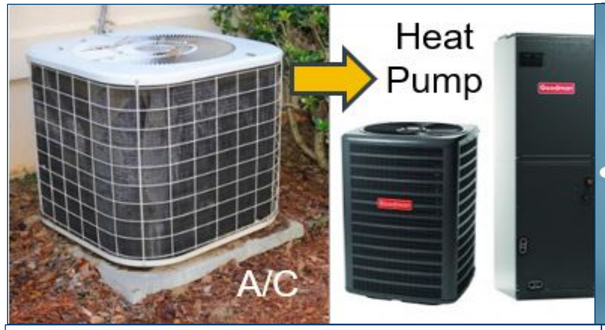
- All-Electric / Gas Ban
- Energy Performance
- Electric Vehicle Infrastructure
- Electric Readiness
- Air Quality
- Other (Not sure / Have not adopted a reach code / etc.)

Reach Code Poll

Is the next reach code cycle on your radar?

- Yes
- Somewhat
- No

Overview of Approaches

Existing Buildings			New Construction
Single Family AC to Heat Pump	Single Family FlexPath	Electric Readiness	Energy Performance Approach
			
▪ A *"Time of Replacement"* reach code that requires property owners at the time of AC equipment replacement (upgrades or burnouts) to install either: 1. A heat pump 2. Efficiency measures ▪ Originates from the 2025 CALGreen Tier 1 Voluntary Pathway.	▪ A *"Time of Renovation"* reach code that requires applicants that are already pulling a permit to abide by a flexible menu of: 1. Energy efficiency measures 2. Electrification measures 3. Electric readiness requirements	▪ A *"Time of Renovation"* reach code that requires applicants that are completing a relevant addition or alteration to abide by electric readiness requirements.	▪ Requires a higher *Source Energy* compliance margin than what the state requires through the performance path of the Energy Code, Part 6.

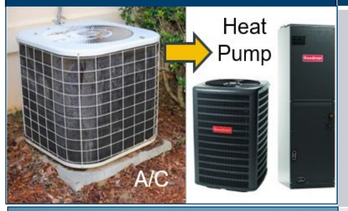
Timeline to Adoption & Future Workshops

- CCAs, IOUs, and their consultants are collaborating to develop workshops and resources for jurisdictions
- Timeline is current best-guess

SF = Single Family

MF = Multifamily

NR = Nonresidential

	Approach	Q1 2025	Q2	Q3	Q4	Q1 2026
	Existing Building – **Single Family AC to HP**	CEC Building Electrification Summit	Cost-effectiveness workshop. Model code + resources published			
	Existing Building – **Flex Path**	Model code and resources published (SF)	Cost-effectiveness workshop (NR)	Cost-effectiveness workshop (MF)	Model code and resources published (MF, NR)	
	Existing Building – **Electric Readiness**		Model code and resources published (SF)		Model code and resources published (MF,NR)	
	New Construction – **Energy Performance Approach**			Cost-effectiveness workshop (SF)	Cost-effectiveness workshop (NR)	Cost-effectiveness workshop (MF)

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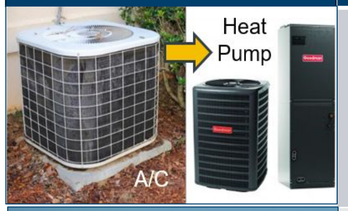	Existing Building – **Single Family AC to HP**	CEC Building Electrification Summit	Cost-effectiveness workshop. Model code + resources published			
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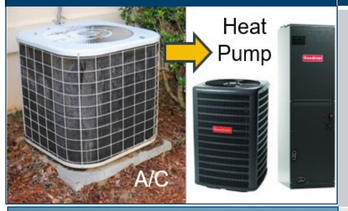	Existing Building – **Single Family AC to HP**	CEC Building Electrification Summit	Cost-effectiveness workshop. Model code + resources published			
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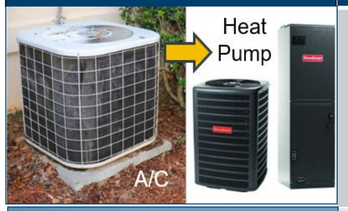	Existing Building – **Single Family AC to HP**	CEC Building Electrification Summit	Cost-effectiveness workshop. Model code + resources published			
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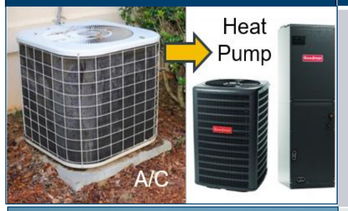	Existing Building – **Single Family AC to HP**	CEC Building Electrification Summit	Cost-effectiveness workshop. Model code + resources published			
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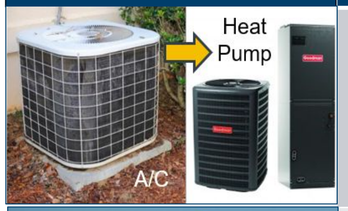	Existing Building – **Single Family AC to HP**	CEC Building Electrification Summit	Cost-effectiveness workshop. Model code + resources published			
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Alternative Reach Code Approaches

Reach codes that can be developed/adopted in 2025, and may contain more uncertainty

- Gas WH to HPWH
- Air Quality
- Zero Carbon Energy
- Green Building Ordinance

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SILICON VALLEY CLEAN ENERGY

Overview of Approaches

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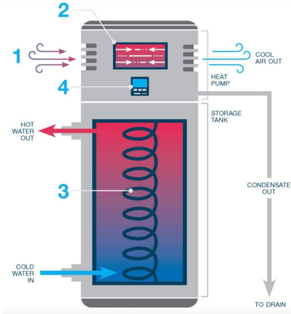
Existing Buildings

Gas WH to HPWH



- For existing single family buildings
- Replace a gas water heater with
  - Heat pump water heater; OR
  - Like-for-like gas + solar thermal
- Cost effectiveness results <u>available</u>
- Amends the 2025 Energy Code
- Requires CEC approval

New Construction *and/or* Existing Buildings

Air Quality

- Can capture new construction and/or existing buildings
- Regulates building or appliance nitrogen oxide (NOx) emissions
- Fuel-neutral; focus is on emissions
- Cost effectiveness not needed
- Amends CALGreen, Part 11
- Does not require CEC approval

Zero Carbon Energy

- Can capture new construction and/or existing buildings
- Buildings must utilize renewable energy through:
  - a) On-site renewable electricity;
  - b) Grid-sourced carbon free electricity;
  - c) Grid-sourced carbon free biogas;
  - d) Non-SOx-producing biofuels;
  - e) Renewably-produced hydrogen;
  - f) District system.
- Amends Municipal or Building Code
- Cost effectiveness not needed
- Does not require CEC approval

Green Building Ordinance

- Can capture new construction and/or existing buildings
- Projects must either:
  - a) be zero-emission; or
  - b) comply with a fuel-neutral certification program containing many green initiatives.
- Amends Municipal or Building Code
- Cost effectiveness not needed
- Does not require CEC approval

Jurisdiction Next Steps

- Start conversations with your key stakeholders.
- Identify questions to be answered.
- Reach out with your support needs.
- Stay tuned for more information in the coming months.
- PCE/SVCE tentatively planning an Elected Officials Workshop in June 2025.

Jurisdiction Survey

Menti.com

Code 5115 8716

Link in chat

Please take 10 minutes to fill out the survey!

Regular Reach Code Options:	Alternative Reach Code Options:
AC to HP	Gas WH to HPWH
SF FlexPath	Air Quality
Electric Readiness	Zero Carbon Energy
Energy Performance	Green Building Ordinance

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Thank you!

Contact TRC:

TTaylor@trccompanies.com

FFarahmand@trcccompanies.com

Contact PCE/SVCE:

BHerrschaft@peninsulacleanenergy.com

Anthony.Eulo@svcleanenergy.org

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APPENDIX

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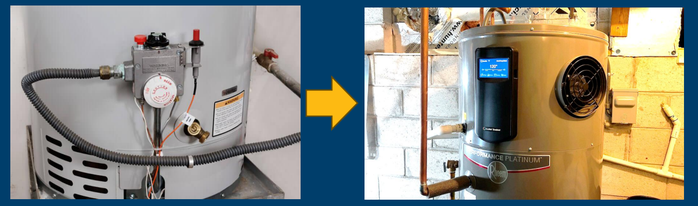
Gas WH to HPWH

Gas Water Heater to Heat Pump Water Heater



Description:

- For existing single family buildings
- Replace a gas water heater with
  - Heat pump water heater; OR
  - Like-for-like gas + solar thermal
- Cost effectiveness results available
- Amends the 2025 Energy Code
- Requires CEC approval

Pros:

- Widely LSC cost-effective under variety of existing conditions and equipment types (e.g. 120V)

Cons:

- While it's close, On-Bill cost-effective is challenging without some of these:
  - Incentives
  - Demand Response program participation
  - Solar PV installation
  - Rate increases for gas surpassing electricity
  - POU rates

Legal Considerations:

- Similar to AC to HP for DHW, which is promoted by the CEC
- Includes an energy-equivalent pathway for gas water heating when combine with a 50% solar fraction solar thermal system
- Work on-going for alternate gas pathways to mitigate risks

Air Quality

Description:

- Can capture new construction and/or existing buildings
- Regulates building or appliance nitrogen oxide (NOx) emissions
- Fuel-neutral; focus is on emissions
- Cost effectiveness not needed
- Amends CALGreen, Part 11
- Does not require CEC approval

Pros:

- Direct benefit to air quality / health
- High impact on emissions reduction
- Likely to result in all-electric construction (construction cost savings)
- Regulates all emitting equipment (including cooking, fireplaces, dryers, etc.)

Cons:

- Limited precedence on implementation and enforcement

Legal Considerations:

- Legally untested
- Relies on Clean Air Act authority rather than Energy Policy and Conservation Act
- NYC Local Law No. 154 - GHGs
- Litigation Against SCAQMD

Zero Carbon Energy

Description:

- Can capture new construction and/or existing buildings
- Buildings must utilize renewable energy through:
  - a) On-site renewable electricity;
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- Likely to result in all-electric construction (construction cost savings)

Cons:

- Limited precedence on implementation and enforcement

Legal Considerations:

- Legally untested
- Allows different fuel sources, as long as they are renewable

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Description:

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- Projects must either:
  - a) be zero-emission; or
  - b) comply with a fuel-neutral certification program containing many green initiatives.
- Amends Municipal or Building Code
- Cost effectiveness not needed
- Does not require CEC approval

Pros:

- Municipal code updates require fewer updates (compared to Energy Code updates)
- Zero emission buildings are the easy option

Cons:

- Certification program compliance can be complex and costly for applicants not choosing the zero-emissions option

Legal Considerations:

- Precedence with many green building codes adopted 15 – 20 years ago
- Certification programs (e.g., GreenPoint Rated or LEED) can be fuel-neutral or not require the achievement of energy credits for certification
- Legally untested

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Sustainability
Department

Jurisdiction Round-Robin: Verbal share out

- Methods for tracking CAP metrics?
- Challenges with tracking CAP metrics, or a specific metric that is difficult to get data on?
- Anyone work on developing a Two-Way AC Reach Code?

Did you know we can help you with that?

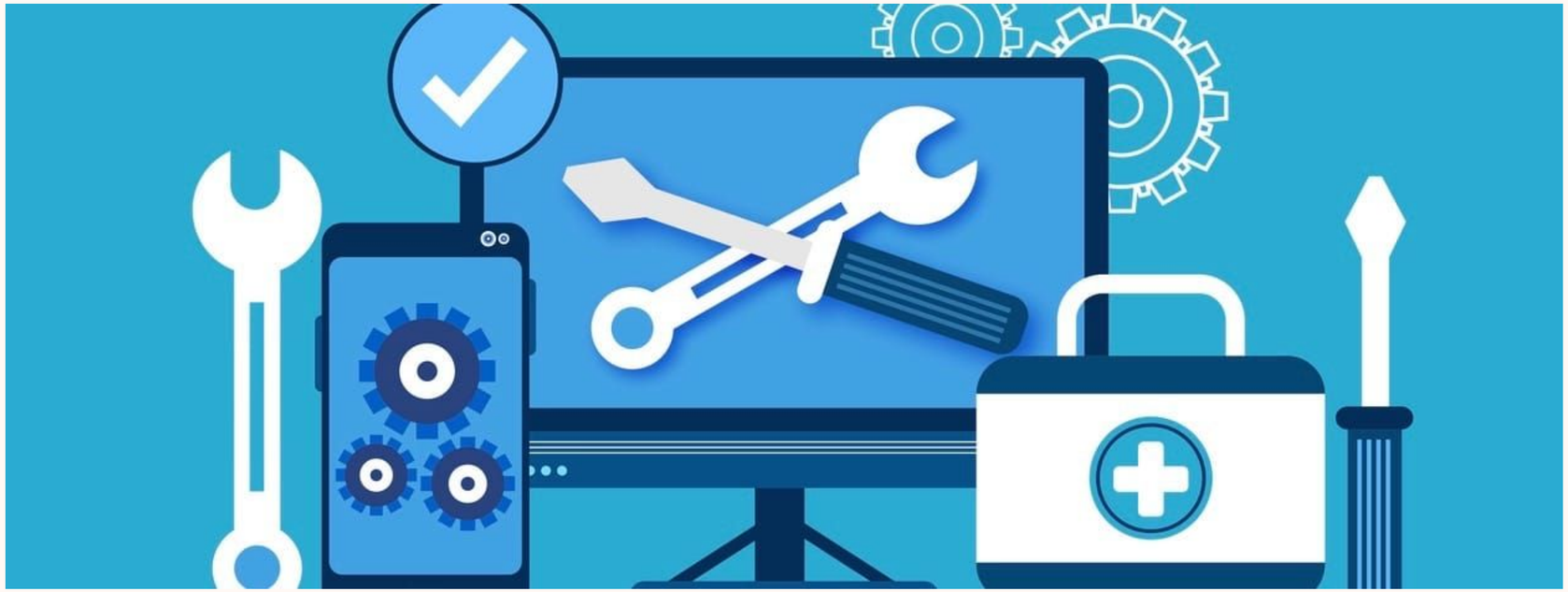
RICAPS Tool and Resource Review

February 25, 2025

Anna Yip
Rincon Consultants

Available Tools and Resources

- GHG Inventory
- Forecast & SPARQ Tool
- Menu of Measures
- Building Electrification Model
- Methane Gas Catalogue Tool
- Electric First Policy
- CAP Template and CAP Support



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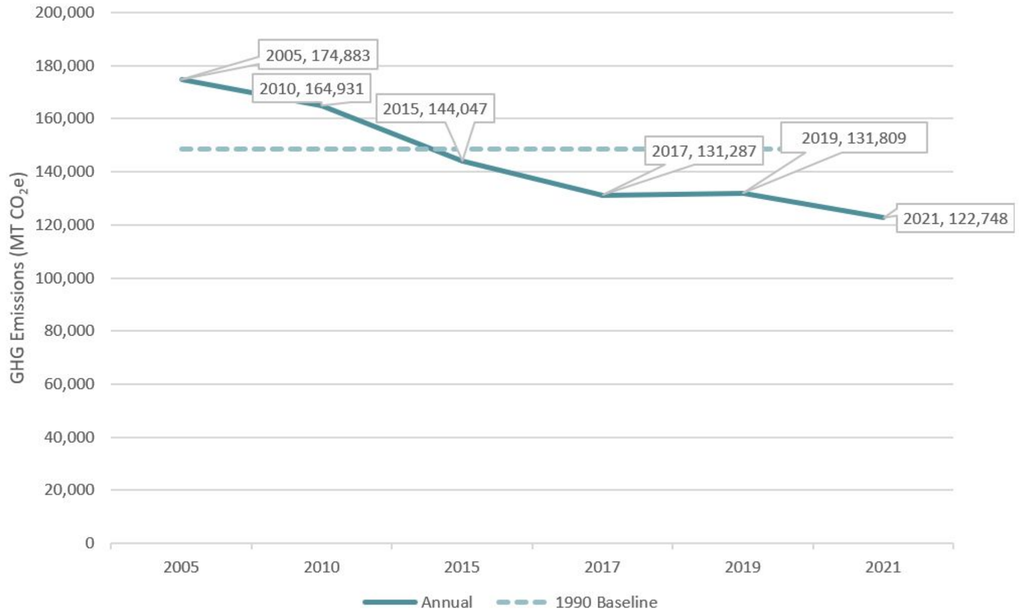
GHG Emissions Over Time

Year	Annual GHG Emissions (MT CO_2e)
1990	148,651
2005	174,883
2010	164,931
2015	144,047
2017	131,287
2019	131,809
2021	122,748



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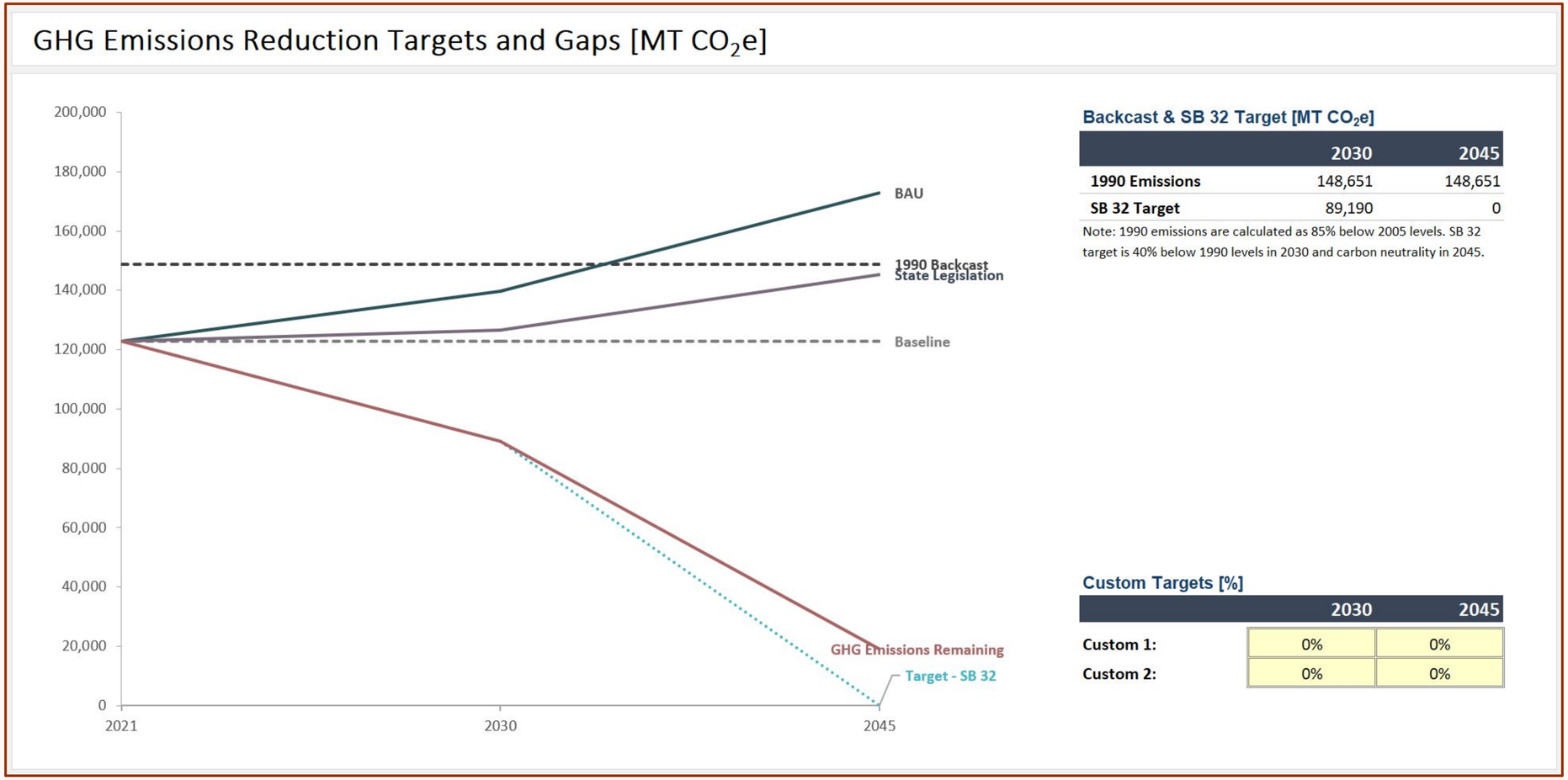

Backcast & SB 32 Target [MT CO_2e]

	2030	2045
1990 Emissions	148,651	148,651
SB 32 Target	89,190	0

Note: 1990 emissions are calculated as 85% below 2005 levels. SB 32 target is 40% below 1990 levels in 2030 and carbon neutrality in 2045.

Custom Targets [%]

	2030	2045
Custom 1:	0%	0%
Custom 2:	0%	0%

Available Tools and Resources

- GHG Inventory
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- **Menu of Measures**
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Select Measure/Action	Action ID #	Pillar	Action Text	2030 Potential Emission Reduction Impact (% Impact of Sector Emissions)	2045 Potential Emission Reduction Impact (% Impact of Sector Emissions)
	Measure T-1		**Develop and implement an Active Transportation Plan to decrease VMT by [x]% in 2030, and [x]% in 2045, increasing active transportation mode share from X% to [4%-10%] in 2030 and [8%-15%] in 2045;**		
	Action T-1.1	Structural Change	Develop an Active Transportation Plan by 2024 (designed for x% VMT reduction) focused on reallocating parking and vehicle roadways to active transportation infrastructure. The Plan should include: - An analysis of existing bicyclist and pedestrian conditions and infrastructure with a focus on identifying areas currently isolated due to freeways and busy roads; - A survey of recent bicycle and pedestrian collisions; - A prioritized list of bikeways to install including shared-use paths, buffered bike lanes, bike boulevards, and separated bikeways; - A schedule for reducing vehicle speed limits at prioritized locations; and - A prioritized list of projects for accelerated completion by 2030.	1%-2% of on-road transportation emissions	1%-4% of on-road transportation emissions
	Action T-1.2	Structural Change	Provide Pedestrian Network Improvement: Increase sidewalk coverage to improve pedestrian access, building (x) miles of new sidewalks, while improving (x) miles of degraded or damaged sidewalks. Ensure sidewalk is contiguous, and links with existing and planned pedesrian facilities, and that network proritizes pedestrian safety.	Up to 6% reduction in VMT from Study AreaQuantifiable, dependent on existing sidwalk length in study area.	Up to 6% reduction in VMT from Study Area. Quantifiable, dependent on existing sidwalk length in study area.
	Action T-1.3	Structural Change	Construct or Improve Bike Boulevard, connecting to a larger existing bikeway network, expanding the network by (x) miles. Bicycle bouleavards are a designation within a Class III bikeway that create safe, low-stress connections for people biking and walking on streets. Prioritize low-income and underserved areas, and communities with lower rates of vehicle ownership and fewer transit options.	Up to 0.2% of GHG emissions and VMT from vehicles on roadway . Quantifiable, based on percent of plan/ community on VMT to have bicycle Boulevard	Up to 0.2% of GHG emissions and VMT from vehicles on roadway. Quantifiable, based on percent of plan/ community on VMT to have bicycle Boulevard
	Action T-1.4	Structural Change	Expand Bikeway Network: increase the length of a city or community bikeway network by (x) miles, which is an interconnected system of bike routes, cycle tracks, bike paths, and bike lanes. Connect bike lanes to transit hubs. Bikeway network must either be Class I, II, or IV infrastructure.	Up to 0.5% of GHG emissions from vehicle travel in the plan/ community . Quantifiable, based on bikeway miles in plan/ community,	Up to 0.5% of GHG emissions from vehicle travel in the plan/ community . Quantifiable, based on bikeway miles in plan/ community,
	Action T-1.5	Structural Change	Implement Pedal (not electric) Bikeshare Program: Establish a bikeshare program (either docked or undocked) to provide users, equivalent to (x) percent of community access to bikeshare system, with on-demand access to bikes for short term rentals.	Up to 0.02% of GHG emissions and VMT from vehicle travel in the plan/ community . Quantifiable,	Up to 0.02% of GHG emissions and VMT from vehicle travel in the plan/ community . Quantifiable,

Introduction | Pillars | Building Energy Measures | Transportation Measures | Waste Measures | Carbon Sequestration Measures | Implementation Measures

Available Tools and Resources

- GHG Inventory
- Forecast & SPARQ Tool
- Menu of Measures
- **Building Electrification Model**
- Methane Gas Catalogue Tool
- Electric First Policy
- CAP Template and CAP Support

Building Electrification Emission Reductions Calculations

Emission Reduction Summary by Sector [MT CO_2e]

Sector	Measure	Subsector	Yes/No	2030	2030.	2045	2045
		Single-family	No	0		0	
		Multi-family	No	0		0	
	Energy Performance Standard/2025 Building Code	Nonresidential	No	0	0	0	0
		Single-family	Yes	3,006		4,732	
		Multi-family	Yes	420		720	
	Local Zero NOx Rule -New Appliances	Nonresidential	Yes	265	3,691	946	6,398
		Single-family	Yes	1,283		13,798	
		Multi-family	Yes	299		2,387	
New Building Electrification	BAAQMD Zero NOx Rule - New Furnaces and Water Heaters	Nonresidential	Yes	11	1,593	238	16,423
		Single-family	Yes	5,072		0	
		Multi-family	Yes	158		0	
	Two-Way AC	Nonresidential	Yes	2,523	7,754	13,339	13,339
		Single-family	Yes	9,697		4,885	
		Multi-family	Yes	466		235	
	Local Zero NOx Rule - Existing Furnaces	Nonresidential	Yes	1,059	11,222	16,430	21,549
		Single-family	Yes	3,590		0	
		Multi-family	Yes	904		0	
	Local Zero NOx Rule - Existing Water Heaters	Nonresidential	Yes	425	4,918	2,017	2,017
		Single-family	Yes	7,809		62,590	
		Multi-family	Yes	1,472		7,795	
	BAAQMD Zero NOx Rule - Existing Furnaces and Water Heaters	Nonresidential	Yes	561	9,842	633	71,017
	Heat Pump at Point of Building Sale	Single-family	Yes	7,450	7,450	25,621	25,621
		Single-family	Yes	65		262	
Existing Building Electrification	Cooking Electrification at Kitchen Renovation	Multi-family	Yes	0	65	0	262
Total				**46,535**	**46,535**	**156,626**	**156,626**

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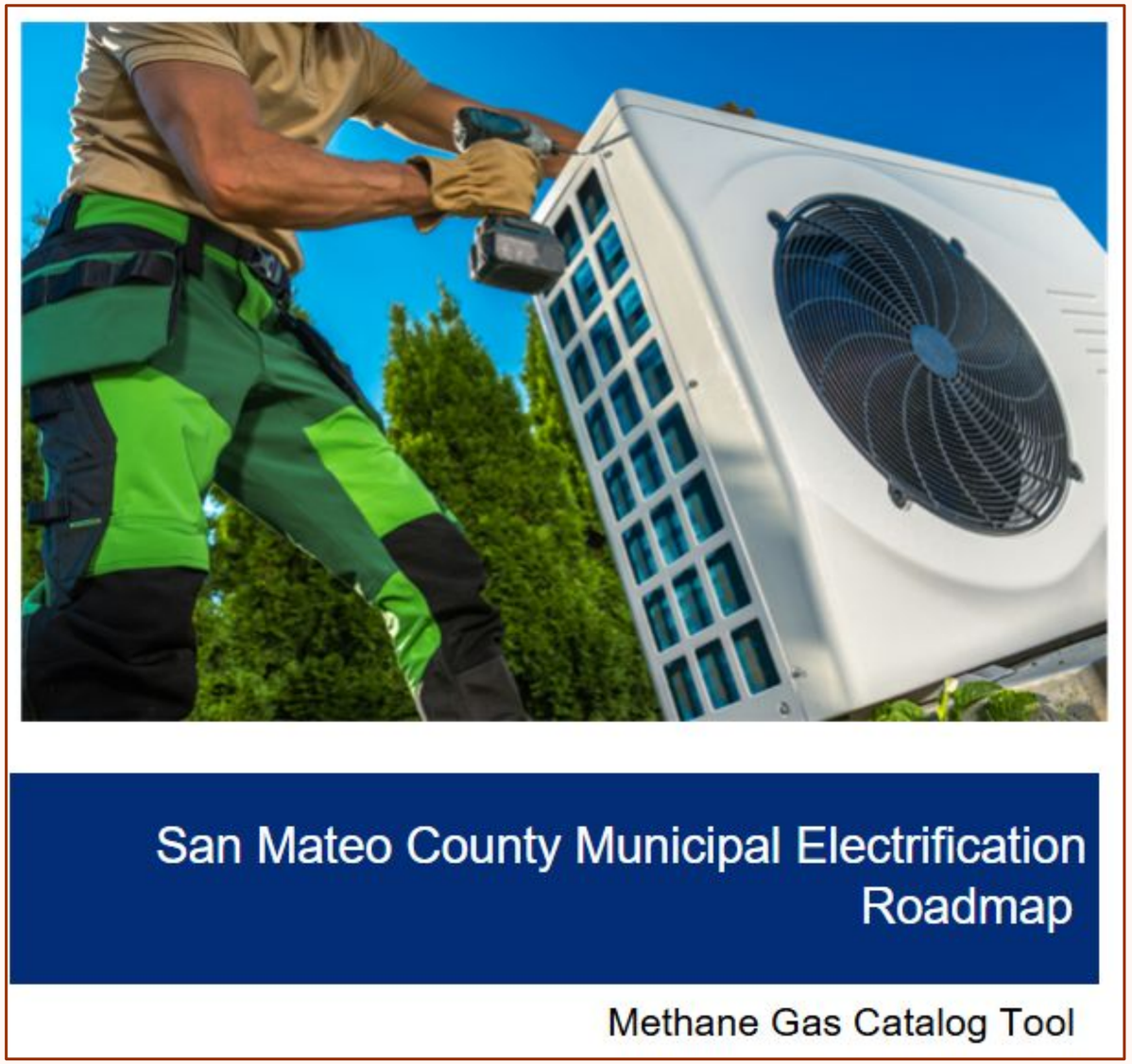

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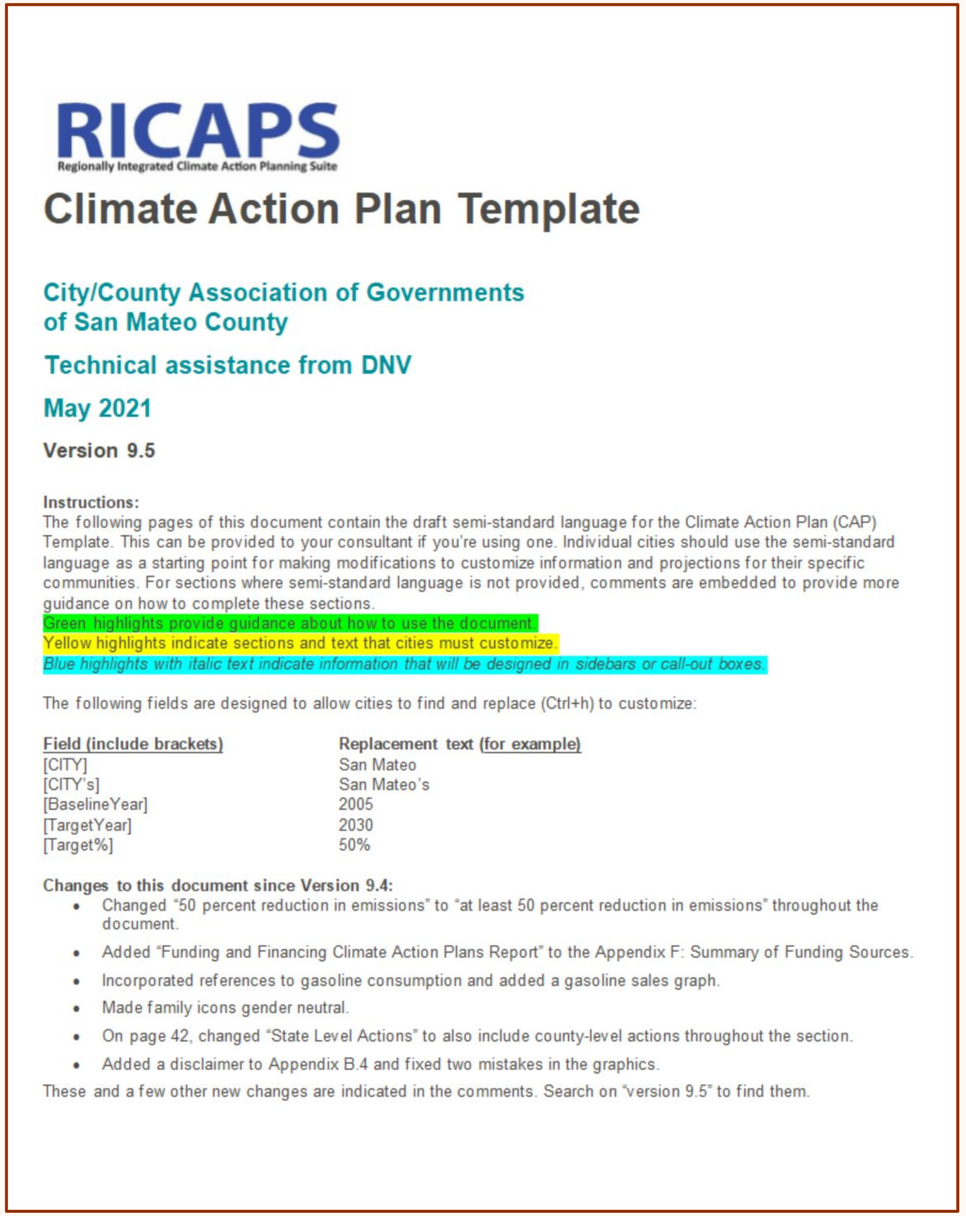


RICAPS
Regionally Integrated Climate Action Planning Suite

Climate Action Plan Template

City/County Association of Governments of San Mateo County

Technical assistance from DNV

May 2021

Version 9.5

Instructions:
The following pages of this document contain the draft semi-standard language for the Climate Action Plan (CAP) Template. This can be provided to your consultant if you're using one. Individual cities should use the semi-standard language as a starting point for making modifications to customize information and projections for their specific communities. For sections where semi-standard language is not provided, comments are embedded to provide more guidance on how to complete these sections.
Green highlights provide guidance about how to use the document.
Yellow highlights indicate sections and text that cities must customize.
Blue highlights with italic text indicate information that will be designed in sidebars or call-out boxes.

The following fields are designed to allow cities to find and replace (Ctrl+h) to customize:

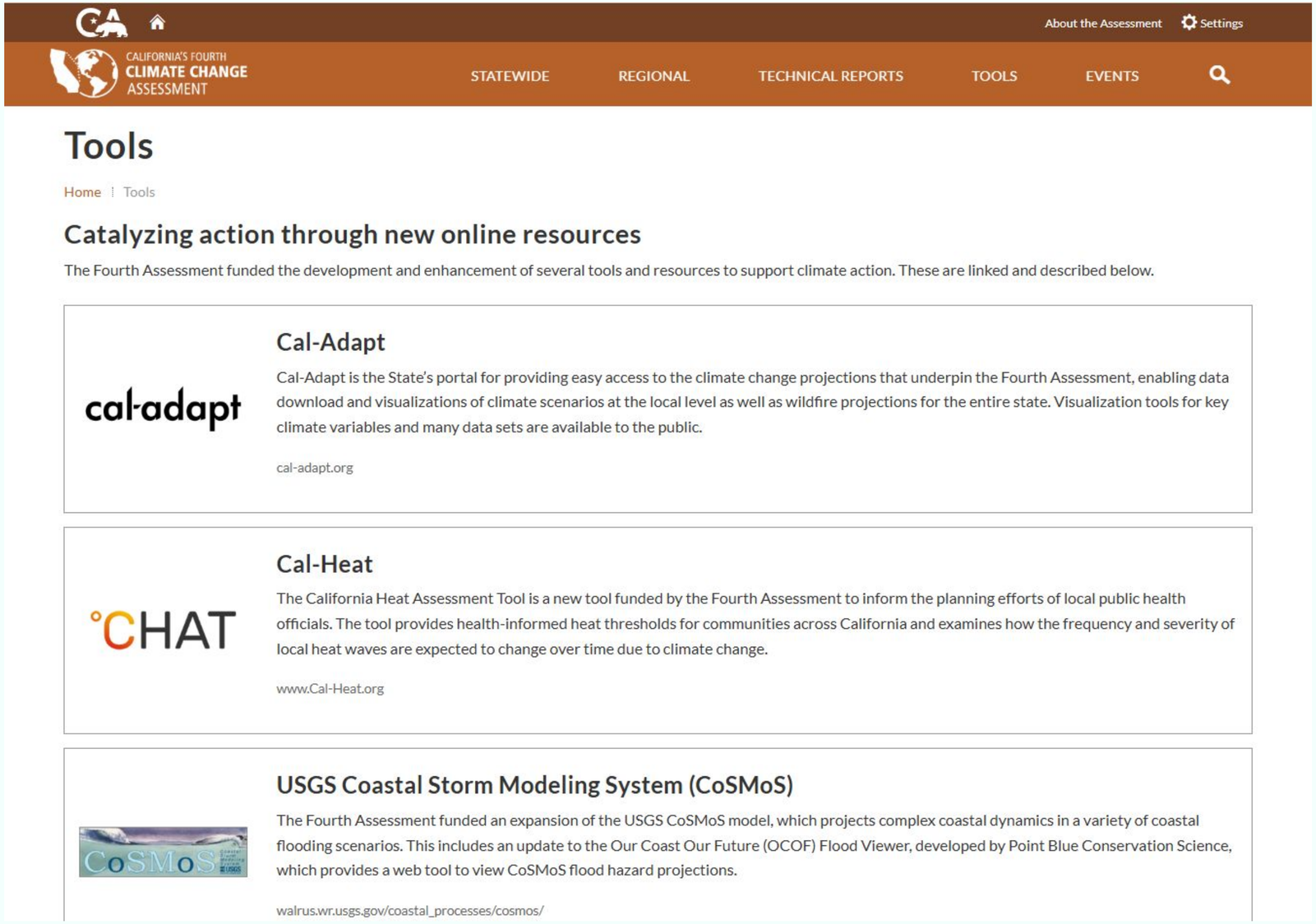
Field (include brackets)	Replacement text (for example)
[CITY]	San Mateo
[CITY's]	San Mateo's
[BaselineYear]	2005
[TargetYear]	2030
[Target%]	50%

Changes to this document since Version 9.4:

- Changed "50 percent reduction in emissions" to "at least 50 percent reduction in emissions" throughout the document.
- Added "Funding and Financing Climate Action Plans Report" to the Appendix F: Summary of Funding Sources.
- Incorporated references to gasoline consumption and added a gasoline sales graph.
- Made family icons gender neutral.
- On page 42, changed "State Level Actions" to also include county-level actions throughout the section.
- Added a disclaimer to Appendix B.4 and fixed two mistakes in the graphics.

These and a few other new changes are indicated in the comments. Search on "version 9.5" to find them.

Could our collaborative use a website?



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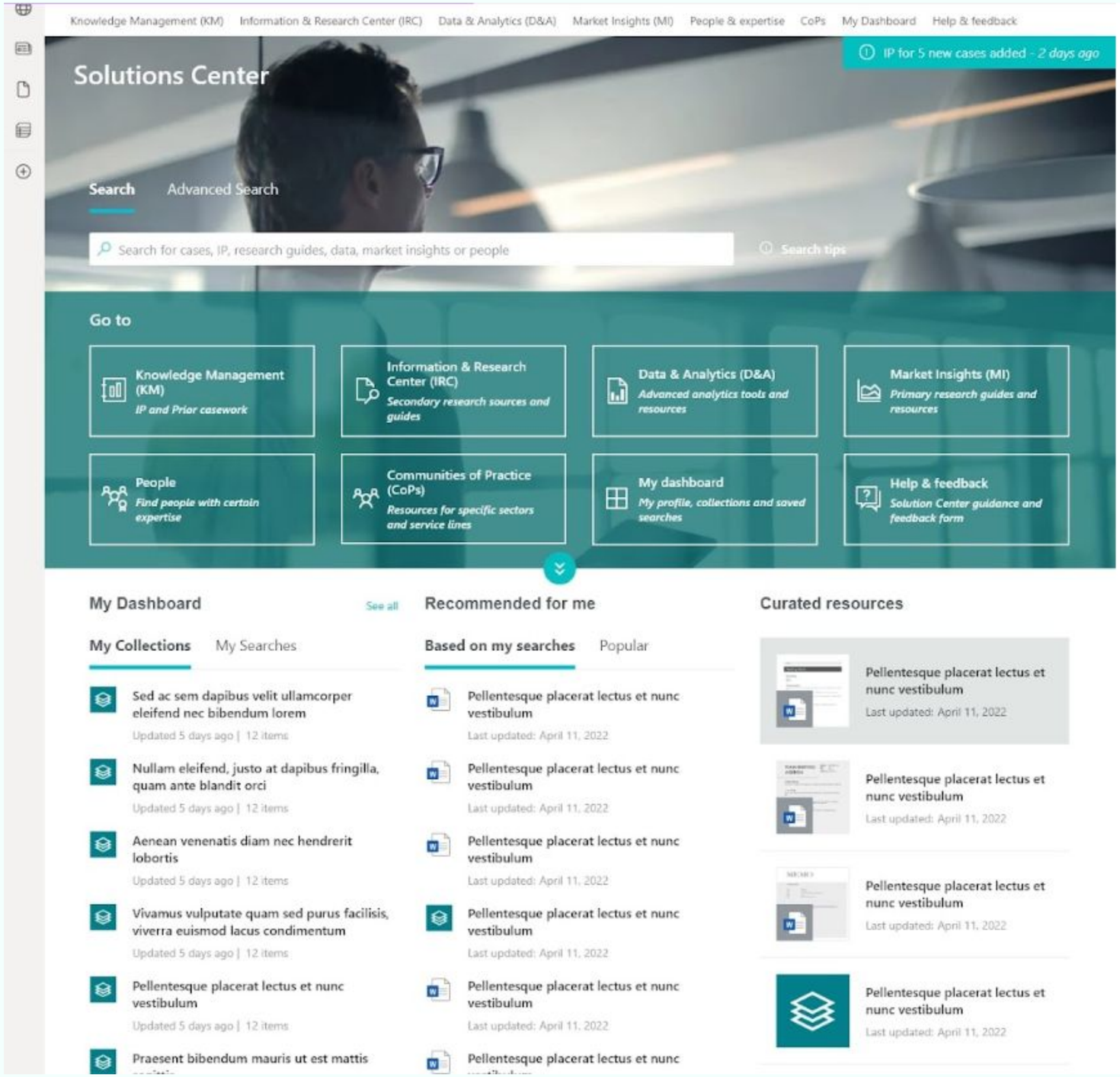

SAN MATEO COUNTY
Sustainability
Department

Thank you!