

Full CAEECC Quarterly Meeting #49

Hosted by the California Energy Efficiency Coordinating Committee (CAEECC)

Meeting Date: March 12, 2026

Location: Virtual

Last updated March 10, 2026



Welcome & Background

Introductions + Agenda

How to Participate

Welcome & Background

Introductions + Agenda

Welcome!

As folks filter in virtually, please drop your **Name**, **Pronouns**, and **Organization / Representation** in the chat.

CAEECC Members & Alternates, please add a “C - “ in front of your zoom name.

What's a favorite style of art, or artist?

Welcome!

View Details in Agenda Document

9:00

Welcome & Background

9:10

Energy Division Updates

9:30

Process Considerations and CARB's Update on the Zero Emission Space and Water Heating Standards

Break 11:00

11:10

CAEECC Business Items

12:00

Optional Assembly

Adjourn 12:45

Meeting Goals

1

Learn about **Energy Division's** relevant updates

2

Discuss how **CARB's Appliance Standards** may impact EE portfolios

3

Discuss proposed CAEECC Engagement on **Workforce Standards** and other Business Items

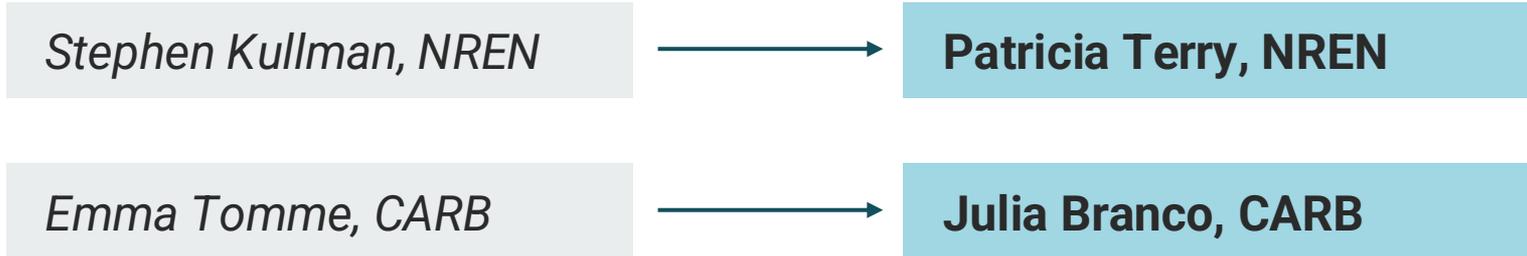
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Learn updates from the **EAC**

00: Welcome & Background

Membership Updates

Welcome new CAEECC leads!



CAEECC has 22 total Members: 12 PAs, 6 implementers, and 4 advocates, and 3 Ex-Officio government entities

Structure & Composition

Facilitation Team

Birch Road Consulting;
Common Spark Consulting; Raab Associates

Co-Chairs

1 PA: MCE
1 Non-PA: The Energy Coalition

Advocates - 4

1. Natural Resources Defense Council
2. Sheet Metal Workers Local 104
3. Small Business Utility Advocates
4. Local Government Sustainable Energy Coalition

Implementers - 6

1. Center for Sustainable Energy
2. CodeCycle
3. Frontier Energy
4. San Joaquin Valley Clean Energy Organization
5. The Energy Coalition
6. City of SF Dept of Environment

+

Portfolio Administrators (PA) - 12

1. Community Choice Aggregators (1): MCE
2. Investor-owned Utilities (4): PG&E, SCE, SDG&E, SoCalGas
3. Regional Energy Networks (7): 3CREN, BayREN, CCR REN, I-REN, NREN, SoCalREN, and SDREN

Government - 3 *Ex-officio*

1. California Air Resource Board
2. California Public Utilities Commission
3. California Energy Commission

00: Welcome & Background

How to Participate

We're joining from ONLINE only



Virtual Emcees:
Facilitators
Katie &
Michelle



Members: Chat is only for technical issues. No substantive comments except from the Public.

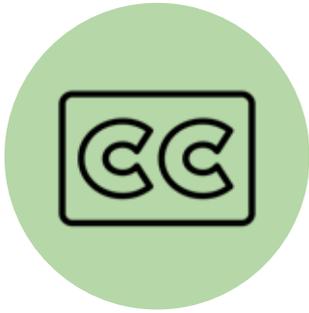


Virtual:
Reactions +
Raise Hand



Unmute & mute
mics!

Virtual Participants



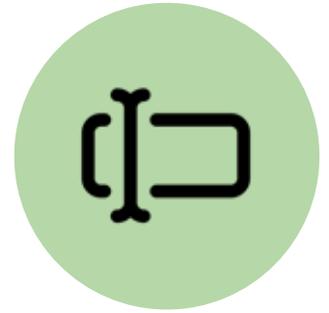
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Share your **video** if possible



Mute yourself when you're not speaking.



Rename yourself with your Representation & Pronouns



When the Public Can Participate

These are the dedicated Public input opportunities, as indicated on the agenda with “*”:

- * Energy Division Updates
- * Process Considerations and California Air Resources Board’s (CARB’s) Update on the Zero Emission Space and Water Heating Standards
- * CAEECC Business Items
- * Optional Assembly



How the Public Can Participate:



Use the **chat function** at dedicated times on the agenda, as announced by the Facilitator



Please **add your name/attribution** to your question to support facilitation.

Groundrules



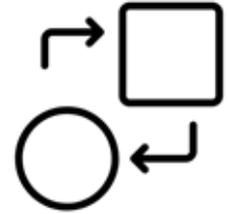
Attend all meetings



Do your homework



Materials are posted 3 days in advance



Propose alternatives



Proposed Meeting Norms

1. Make space, take space (share the mic).
2. Stories shared here stay here; what is learned here leaves here.
3. Share your unique perspective: share your unpopular opinion!
4. Generative thinking: "yes, and" instead of "yes, but".
5. Listen from the "We", speak from the "I".
6. Offer what you can; ask for what you need.
7. Be inquisitive.
8. Assume best intent.
9. Be empowered to share impact.

01

Energy Division Updates

Energy Division Energy
Efficiency Activity

Evaluation Studies Update

EE Dashboards on CEDARS

Business Plan Application
Timeline

Energy Division Staff Updates

CAEECC Q1 Meeting, 3/12/26

Agenda

1. Recent Energy Efficiency Work
2. CEDARS updates
3. Business Plan Application Timeline



Energy Division Energy Efficiency Activity

Proceeding Activity

- Viable Electric Alternative comments and replies
- SDG&E off-cycle application to withdraw
- Multi-Family definition

Other EE work

- Auditors Report - Our commitments
- Custom Projects Annual Net-to-Gross Memo
- Market Transformation initiatives
- Customer Electrification Estimator Tool

Upcoming

- Goal constructs for Market Support and Equity Segment follow up
- DEER resolution

Evaluation studies concluding soon (March)

- Commercial Go Green Financing Evaluation
- Residential Go Green Financing Evaluation
- FlexAlert Marketing Evaluation
- Power Efficient Design Workforce Needs Assessment
- Building the Electrification Workforce: Fuel Substitution Workforce Readiness Phase
- 2025 Compliance Improvement Process Evaluation
- ETP Pulse Check
- Commercial Pop NMEC Evaluation

Evaluation studies (cont.)

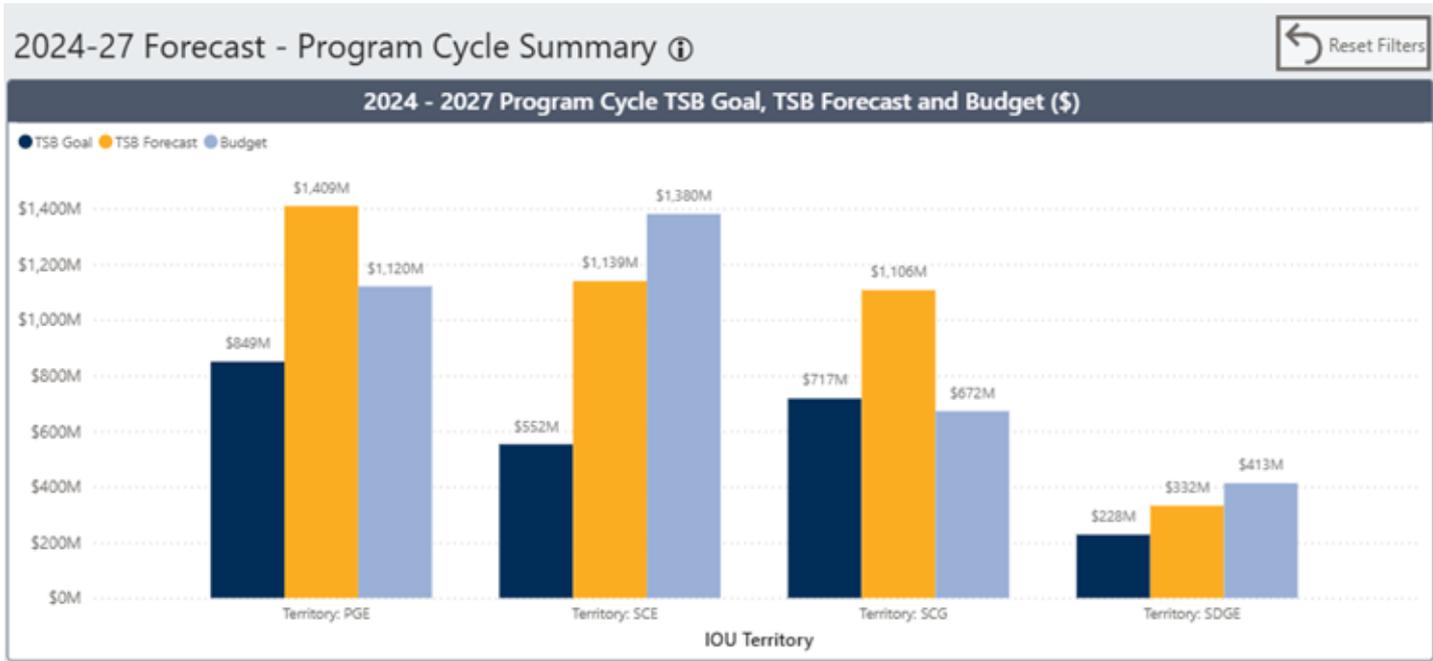
Ongoing

- Water Heating Evaluation
- Residential Pop NMEC Evaluation

Upcoming

- Portfolio Design Assessment Phase II
- C&S Impact Evaluation
- WE&T LEARN Program Evaluation
- Equity Segment Needs Assessment and Gap Analysis
- IDEEA 365 Rapid Assessment
- New Construction Program Needs Study
- Heat Pump Market Characterization Study Time 3

EE Dashboards on CEDARS



- Note: values in each IOU territory includes CCA and REN forecasts
- CEDARS dashboards now display updated claims data along with forecasted 2026 and 2027 figures derived from the Mid-Cycle Advice Letters.

Additional CEDARS updates

- Will add measure-level data to the dashboards within the coming months
- Adding a more dependable output for "Participant"
- Developing more robust reporting instructions to improve users' application of equity-targeted flags

Business Plan Application Timeline

- **March 16, 2026:** Portfolio Administrator Business Plan Application Submissions due
- **Late March – April (TBD):** Comments and replies
- **Mid-2027:** Anticipated CPUC Decision
- **September 2027:** True-Up Advice Letter Filings
- **2028-2031, 2032-2035:** Business Plan Application Cycles

CAEECC's Website: 2028-2035 Business Plans/Application Docs | CAEECC
CPUC Energy Efficiency Rolling Portfolio Website: Rolling Portfolio Program
Guidance

Member Input

Raise your hand in the virtual room

Public Input

Use the chat to share your comment or question. Please include your name and affiliation.

Time permitting, if we need clarification, we may request a question be conveyed verbally.

02

Process Considerations and California Air Resources Board's (CARB's) Update on the Zero Emission Space and Water Heating Standards

02: CARB Appliance Standards

Overview of CARB's zero-emission space and water heater standards (current proposal and next steps)

CARB Proposed Appliance Standards + EE

During the 2025 Q4 PA Business Plan Formal Consult presentations, CAEECC members noted **lower budgets from PAs**. PAs noted that this was due to the assumed CARB Appliance Standards.

The initial version of this standard, more or less, end gas water heating and gas heating and cooling appliance sales in 2030. **This is no longer the proposal CARB is considering.**

This session is to share updated information on the CARB current proposal and their regulatory process, and open up a conversation on how to consider, integrate, and prepare this change in the current Business Plans and EE Portfolio.



CARB Proposed Appliance Standards + EE

For this session:

1. Hear from **CARB** on the current state of their regulatory process and proposal
2. Hear from **MCE and SVCE** on the coordination in advance of the BAAD appliance standards
3. **Breakout into groups** for CAEECC members to discuss potential impacts, needs, and ideas for how CPUC and PAs should consider and plan EE work in complement to the standards
 - a. The public can also participate in their own breakout group
4. **Report out**





Zero-Emission Space and Water Heater Standards

Maggie Seay

California Energy Efficiency Coordinating Committee Meeting

March 12, 2026

Motivation for Zero-Emission Space and Water Heater Standards



- **Reduce climate pollutants.**
 - Space and water heaters account for ~10% of statewide greenhouse gas (GHG) emissions.
 - Strategy for achieving 2045 carbon neutrality targets in the 2022 Scoping Plan.



- **Improve air quality and public health.**
 - Space and water heaters account for ~5% of statewide smog-forming nitrogen oxides (NOx) emissions.
 - 2022 State Implementation Plan (SIP) Strategy included space and water heater GHG emission standards.

Regulatory Concept Evolution

2022 State Strategy for the State Implementation Plan Concept:

100% sales must meet zero-GHG emission targets starting in 2030



May 2024 Concept:

100% sales with different target dates varying by equipment type and size starting in 2027 and ending in 2033



December 2025 Proposal:

Less than 100% concept focused on emissive sales limits and combined with a credit system to provide flexibility to address regulated entity and end user challenges

Revised Regulatory Proposal

- **Limits on Emissive Equipment Sales**
 - Sales of new space and water heaters in California must not exceed GHG-emissive limits.
- **Credit System for Compliance Flexibility**
 - As a flexible alternative compliance pathway, credits can be earned, banked, or traded to comply with regulation.



Proposed GHG-Emissive Sales Limit

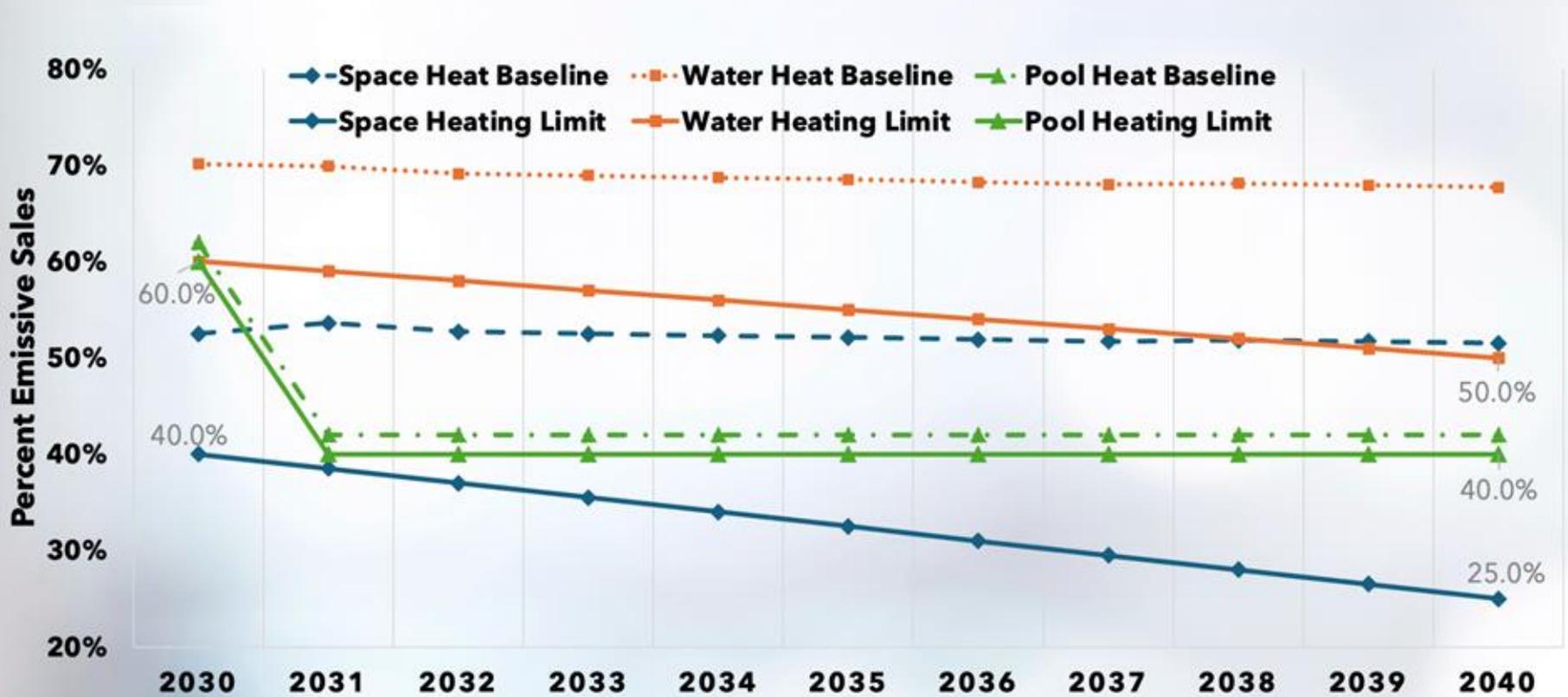
- Each manufacturer's annual GHG-emissive equipment sales in California should be less than or equal to their total annual equipment sales x GHG-emissive sales limit (%).
- Sales refers to equipment produced or delivered for sale or sold in California.
- Equipment with a rated heat input $\leq 2,000,000$ Btu/hour must comply with emissive sales limits starting in 2030.

Proposed Statewide GHG-Emissive Equipment Sales Limits

Year	Space Heating	Water Heating	Pool Heating
2030	40%	60%	60%
2035	33%	55%	40%
2040+	25%	50%	40%

$$\text{Emissive Equipment Sales}_{\text{Manufacturer}} \leq \text{Total Equipment Sales}_{\text{Manufacturer}} \times \text{Emissive Sales Limit (\%)}$$

Emissive Sales Baseline and Proposed Emissive Limits



Proposed Optional Credits

Reducing GHG emissions

- Pre-2030 early compliance
- GHG-emissive equipment sales below the limit

Improving equity

- Equipment or monetary donations for equitable building decarbonization projects

Addressing performance and reducing retrofit costs

- Innovative zero-emission technologies (e.g., cold climate heat pumps, low-power units, large capacity packaged rooftop units)

Reducing the impact of refrigerants

- New equipment using ultra-low global warming potential or reclaimed refrigerants

Next Steps

- Continue to revise regulatory proposal based on public feedback.
- Collaborate with manufacturers, distributors, and other interested parties to refine the proposal.
- Release preliminary regulatory language for early public feedback.
- Publish economic analysis for review.
- Continue collaborating with sibling state agencies (CEC, CPUC) around complementary policies and implementation planning.
- Release regulatory package followed by 45-day public comment period.

For More Information

- **Website:** background, including FAQs:
<https://ww2.arb.ca.gov/our-work/programs/zero-emission-space-and-water-heater-standards>
- **Listserv:** Subscribe to CARB's Building Decarbonization GovDelivery topic to stay informed:
https://public.govdelivery.com/accounts/CARB/subscriber/new?topic_id=bldg
- **Email:** buildingdecarb@arb.ca.gov

Member Clarifying Questions

Raise your hand in the virtual room

02: CARB Appliance Standards

Community Choice Aggregate (CCA)
and Bay Area Air District (BAAD)
coordination in advance of local
appliance standards



California Energy Efficiency Coordinating Committee Meeting

March 12, 2026



Drivers, Obstacles, and Shifts

Advocacy

- High Road Training Partnership is setting workforce standards for the Bay Area

Legislation and Policy

- SB222-Wiener (CA)
- 6 million heat pumps by 2030
- Title 24 (building code)

Regulatory

- Bay Area Air District: Rulings 9-6 and 9-4: 2027 and 2029: Ban the sale of NOx producing water heaters and HVAC
- California Air Resources Board: No gas fired heaters and water heaters starting 2030



Community Choice Aggregators (CCA) in California's Bay Area



Phase 1 (2023-2025) Collaboration Outcomes: Study Example

Heat Pump Water Heater (HPWH) Incremental
Cost: \$3,496

Water heater typical life: 13 years

- Bay Area Households with <75,000 Btu/hr gas water heaters: 1,558,900
- Annual turnover: 119,915

To cover incremental costs for Bay Area owner-occupied low-income properties (<250% FPL)
\$49.6MM annual cost



Phase 1 (2023-2025) Collaboration Outcomes

- Developed electrification solutions analysis report which identifies key barriers and technical issues for compliance with Air District rules.
 - Led to development of recommendation on space constraints for some project scenarios.
- Completed financial solutions analysis, which became a financing pilot led by Peninsula Clean Energy, for easily-accessible, low-cost customer options for electrification. CCAs advise this effort.



Phase 2

(2025-present)

Regional Collaboration



Ongoing
Communication



Contractor
Support



Permitting Issues



Streamlined
Financing



Incentive Support



Regional Scope

Contractor Support

Goal: Incentivize new contractors to install HPWHs

Feedback/Information Sessions

- MCE Power Breakfasts
- BayREN/SJCE/SVCE hosted South Bay Contractor Workshops
- 4 CCA Contractor working group meetings led by SVCE

Key Contractor Barriers Identified

- Financial risk in installing new equipment
- Lack of incentive (financial cost, customer demand)
- Permitting challenges (wait times and inconsistency)

CCA Programs

- SVCE Contractor Training Program
- SJCE HPWH Contractor Incentive
- MCE Green Workforce Pathways Program
- Joint CCA HPWH Contractor Incentive coming soon!



Addressing Permitting Issues

Goal: Strategic coordination with local building departments that catalyzes electrification.

CCA Activities to date:

- Application assistance
- SolarAPP+ Foundation (AVA)
- Rock Rabbit (SVCE, MCE on deck)
- SB 222 (Wiener) support
- MCE Permitting Study



Incentive Support

Goal: Align local incentive program offerings and communications to reduce market confusion

Outcomes to date:

- Regional CCA alignment on rebate levels for HPWH in 2026
- Continued coordination to discuss regional HPWH rebate levels for 2027
- Multiple CCAs coordinating to run a HPWH “kicker” to increase rebate levels for a short period of time
- Coordinated market actor and customer messaging



Financing Options

Goal: Provide a financing solution with favorable rates and fees AND a streamlined customer/contractor experience

Outcomes to date:

- Regional CCA (PCE) negotiating with potential partners to deliver streamlined financing with favorable terms.
- PCE is also exploring revenue-generating credit enhancements to both improve terms and program sustainability.
- Other CCAs advising and will act based on lessons learned.



Takeaways

Partnering with regulators takes time, but pays dividends for all parties, especially customers

Regional energy groups can help shape strong safeguards and practical solutions for their customers

Consensus building among like-minded groups should be ongoing
Build in a commitment to continue to move forward together

Thank you!



mceCleanEnergy.org
info@mceCleanEnergy.org

Member Clarifying Questions

Raise your hand in the virtual room

02: CARB Appliance Standards

CAEECC Discussion Via Breakouts

CAEECC + Public Discussion Via Breakouts

Breakout Instructions

You will be moved to a random breakout room for 25 min.

1. **Select one person** to guide discussion, keep time, and report back.
2. **Use the Breakout Slides (QR Code)** to take notes and view the prompts.

CAEECC Members and the Public will be separated, but report backs will be together.

bit.ly/4rDZb0p



Breakout Questions

1. Share your initial thoughts about how CARB's update may impact Business Plans and the EE Portfolio
2. What recommendations and process considerations should the CPUC and PAs think through given the proposed CARB standards? (e.g., inclusion of gas appliances in EE portfolio, budget true-up, amendments to business plans)
3. If CARB adopts standards much like the proposal, how should the EE portfolio complement and support the success of those standards?
 - a. How can the EE portfolio help address affordability and equity concerns that accompany these standards?
 - b. What would be the most effective way for PAs and CARB to collaborate?

bit.ly/4rDZb0p



CAEECC is on Break until 11:10am

View Details in Agenda Document

9:00	Welcome & Background
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9:10	Energy Division Updates
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9:30	Process Considerations and California Air Resources Board's (CARB's) Update on the Zero Emission Space and Water Heating Standards
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Break 11:00

11:10	CAEECC Business Items
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12:00	Optional Assembly
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Adjourn 12:45

03

CAEECC Business Items

1. Workforce Standards
Proposal for Possible
CAEECC Engagement
2. Equity Advisory
Committee Updates
3. Q2 Proposed Topics

3A: CAEECC Business

Possible CAEECC Engagement on Proposed HVAC and Lighting Workforce Standards

Workforce Standards Workshop

- **Purpose:** To establish a common understanding of the opportunities, benefits, challenges, and perspectives of different interested parties re: applying workforce standards to energy efficiency/electrification programs. *Note the purpose isn't to problem solve*
- **Topics:** Brief history & context; presentations on any proposals in Business Plan Applications; exercise to gather concerns and perspectives on existing standards; problem-mapping exercise
- **When:** Spring/summer 2026, approximately 2-3 hours
- **Audience:** CAEECC Members + stakeholders plus key players including CEC, contractors/industry (including electrification, DERs, etc), CALCPT, California Energy Alliance (e.g. acceptance testing), and others



Image courtesy [FreePik](#)

Member Input

Raise your hand in the virtual room

Public Input

Use the chat to share your comment or question. Please include your name and affiliation.

Time permitting, if we need clarification, we may request a question be conveyed verbally.

3B: CAEECC Business

Equity Advisory Committee Update

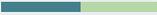


About the Equity Advisory Committee (EAC)

During the 2025-2026 pilot, the EAC will focus on advising Portfolio Administrators and Energy Division on **Equity Best Practices**.

They are tasked with:

- Sorting through CEDARS equity programs to understand scope & scale
- Attending Equity sections of CAEECC Quarterlies and PPRR Meetings
- Providing informal recommendations to PAs on best practices and optional informal recommendations to CPUC



About EAC cont.

EAC Members

Amaury Berteaud

Brooke Wright

Chris Pilek

Julia Hatton

Facilitation Team

Michelle Vigen Ralston

Suhaila Sikand

Katie Abrams

Special thanks to the 7+ CAEECC Members and 20+ Public Members who attended Meeting #4!!

July - Sept 2025

EAC Conducts Background Analysis

EAC Members reviewed the preliminary CEDARS analysis on equity programs, attended CAEECC Meeting Equity Highlights, and reviewed an NEB study analysis.

Oct - Dec 2025

EAC Sends Initial Recommendations to CAEECC PAs

EAC Members drafted and sent via memo on Dec 19 2025, Initial Recommendations for consideration ahead of PA Business Plan filings anticipated in early 2026.

Jan - Mar 2026

EAC Drafts Additional Recommendations for CAEECC PAs

EAC Members are drafting additional recommendations on Equity Best Practices and near-term solutions to make portfolios stronger and better integrate equity across them.

Mar - May 2026

EAC Sends Final Recommendations to CAEECC PAs

EAC Members plan to send a Memo with additional recommendations to CAEECC PAs.

Timeline
subject to
change

Reminder: Initial Memo of Recommendations

bit.ly/4kYraWc



On December 19, the EAC issued their Initial Memo of Recommendations.

These recommendations were prioritized for publication in order for them to be considered in the forthcoming BPAs.

We encourage PAs to review this Initial Memo of Recommendations and leverage or refer to them in their BPAs.



New Draft Recommendations

The EAC is building upon the Initial Memo with some new draft recommendations. Bolded recommendations in the following slides represent some of the draft recommendations the EAC is working on.

We encourage PAs to join the March 17 meeting to hear about the additional Draft Recommendations and leverage or refer to them in their BPAs.

Draft Recommendations - *A Preview*

1) Simplify and Clarify Program Eligibility to Build Trust with Program Participants

1. Streamline Eligibility to Reduce Participant Burdens and Advance Equitable Outcomes
2. Clarify Coordination and Collaboration with Income Qualified Programs to Foster Greater Participation and Delivery of Benefits to Eligible Participants

2) Strengthen Use of Data & Evaluation for Equity

1. Standardize Equity Metrics to Support Deeper Analysis of Equity Outcomes Across the Portfolio
2. Capture and Value Equity Program Contributions Across the Portfolio (e.g., Reach vs. Service, Baseline, NEBs)

Draft Recommendations - *A Preview cont.*

3) Integrate Equity into Portfolio Design & Planning

1. Position Equity Programs as Innovators for the Broader Portfolio
2. Reframe equity efforts as programs to address “missed opportunities” or “gaps-in-success”, complementary to Resource Acquisition and Market Support programs.
3. **Establish a Formal Body to Leverage Lessons Learned from the Equity Segment Across the Portfolio**

4) Expand Equity Value through WET Program Integrations

1. Expand Equity Value through Workforce, Education, and Training Integrations



New Draft Recommendations

The EAC will meet one or two more times to finalize its recommendations. We welcome you to join the next one on Tuesday 3/17 from 12pm - 2:30pm.

In particular, we invite CAEECC PAs to join and also to share any policy recommendations they are making in their Business Plan applications with EAC Members for consideration in their Final Recommendations.

If any CAEECC Members are interested in reviewing and sharing input on the new draft recommendations, please contact michelle@common-spark.com



March 17, 2026

EAC Meeting #4
*Refine Additional
Recommendations and
Draft Final Memo*



March 27, 2026

Review Revised Draft
Final Memo



April 7, 2026

EAC Meeting #5
Held, but not finalized.
Discuss revised draft
feedback and next
steps. Determine next
steps and timeline.



June 9, 2026

Q2 CAEECC Meeting

Final Memo Drafting Plan

We anticipate sharing EAC Recommendations by June 1 ahead of the **Q2 Quarterly CAEECC Meeting on June 9, 2026.**

3C: CAEECC Business

Q2 2026 Proposed Meeting Topics



Upcoming Quarterly Meeting Topics

Q2 Main Assembly:

- Possible ED update on PA Business Plan applications including dashboard/data summary, timeline, how to engage in the process, policy recommendations, and/or other analysis on PAs filing
- EAC pilot next steps (+ possible presentation of Final Recommendations)
- Other topics?

Q2 Optional Assembly:

- CalTF Update
- CEDARS update

Member Input

Raise your hand in the virtual room

Public Input

Use the chat to share your comment or question. Please include your name and affiliation.

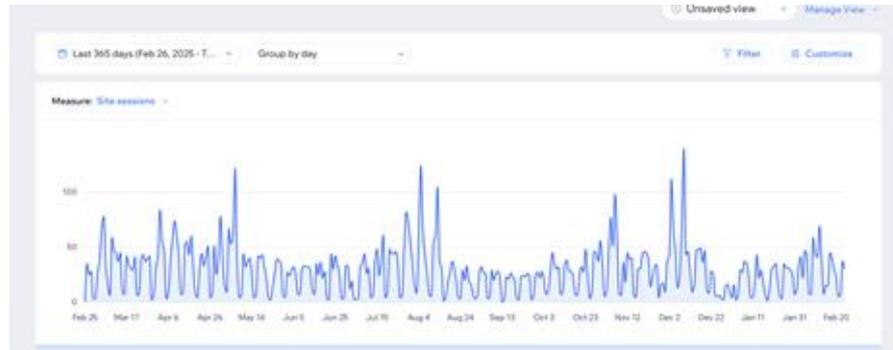
Time permitting, if we need clarification, we may request a question be conveyed verbally.

3: CAEECC Business

Miscellaneous Business Items: Website & Groundrules

CAEECC Website Refresh

- 12 people (CAEECC Members, Ex-Officio, + stakeholder) completed a survey on how you use the site and opportunities for improvement
- Survey will be used by CAEECC Leadership Team during mid-March Website Strategy Refresh workshop
- Next update at Q2 meeting



Checking in - Groundrules Amendment

In December, CAEECC adopted the following groundrule change.

III.A.iii.f Any presenter (Member or their proxy or designee) should have their presentation ready for posting at least **five three** business days prior to the meeting; and presenters should work with the Facilitator Team prior to the posting deadline to help ensure that materials are clear, concise, and on topic” (page 2)

How did this groundrule change feel in action before this meeting?

CAEECC Members & Public - please use the chat to provide feedback

08

Main Assembly Wrap Up

PA Solicitation Reminder

2026 Meeting Dates

Evaluations

Next Steps

PA Solicitations are included in the Appendix. Please email the contacts provided for any questions regarding them.

Amended 2026 Meeting Dates

Date	Meeting	Location
6/9 (T)	Q2 Full CAEECC Meeting #50	Virtual, SF, LA
7/30 (Th)	Portfolio Performance Report Review (Annual)	Virtual
9/23 (W)	Q3 Full CAEECC Meeting #51	Virtual, SF
11/4 (W)	Portfolio Performance Report Review (Semi-Annual)	Virtual
12/9 (W)	Q4 Full CAEECC Meeting #52	Virtual, SF, LA

12/09/2025 Meeting Evaluation Scores

Evaluation Question Summaries	Avg.
Objectives of the meeting were accomplished.	5.5
Presentations and background documents were clear and helpful.	5.2
This meeting was an inclusive and trusting environment.	5.3
The facilitators were effective in running the meeting.	5.8
Overall, the meeting format was smooth and effective.	5.5
Overall, this Full CAEECC meeting was successful.	5.2

Scores are 1-6 scale, where 1 is "strongly disagree" and 6 is "strongly agree"; and 3.5 is mid-point of 1-6 scale

Scores based on responses from 17 members and 2 stakeholders

Facilitation Team and Co-Chairs reviewed and debriefed comments from respondents

This Meeting Evaluations

CAEECC Members are required by Groundrules to complete each Meeting Evaluation.

Members of the Public are encouraged to complete the evaluations.



Evaluations will be sent by
CAEECC Facilitator



Complete evaluations **today** and
latest by March 19, 2026 COB

Next Steps: Meeting Notes



3/19/2026

Draft meeting
summary posted on
CAEECC website



3/26/2026

Draft meeting summary open to
suggested changes

PAs will be asked to clarify
responses and respond to
unanswered questions



4/2/2026

Final meeting
summary posted

CAEECC Main Assembly Has Ended

Those not wanting to stay for Optional Assembly are free to leave. Thank you!

9:00	Welcome & Background
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9:10	Energy Division Updates
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9:30	Process Considerations Regarding Softening of CARB's Standards
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Break 11:00

11:10	CAEECC Business Items
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12:00	Optional Assembly
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Adjourn 12:45

04

Optional Assembly

CalMTA Update

CalTF Update

04: Optional Assembly

CaIMTA Update



Market transformation in California moves forward

- Full CAEECC Meeting #49
March 12, 2026

2025: a year of milestones for California's Market Transformation Administrator



- **Two MTIs approved by CPUC** for market deployment (D. 25-11-023)
- Phase II **research and market engagement conducted for four other MTIs**
- **One new MT idea** moved into Phase II development
- First year of **Equity Sounding Board** engagement (four meetings + consulting hours)
- **New website and solicitation portal** for implementation/evaluation RFPs

CalMTA portfolio progress



FIRST TRANCHE



Room Heat Pumps



Induction Cooking

UPCOMING - SECOND TRANCHE



Commercial Rooftop Units



Residential Heat Pump Water Heating



Commercial Replacement & Attachment Window Solutions

IN DEVELOPMENT



Foodservice Water Heating Systems



Commercial Building Efficiency Accelerator

2025

- Approved/conditionally approved by CPUC Decision
- Market deployment begins in 2026

2026

- Preparing for submission via CPUC application in Q2

2027

- Preparing for submission after second application decision

First tranche of MTIs



ROOM HEAT PUMPS MTI



- **Implementation RFP** closed Jan. 30
- Contract award and **program launch in Q3**
- **3rd-party evaluation RFP in Q2**

INDUCTION COOKING MTI



- MTI refined with focus on accelerating **120V technology**
- **Tier 2 Advice Letter** filed Q1; implementation RFP to be released after CPUC approval

Commercial Rooftop Unit (CRTU) MTI



Over half of the commercial floor space in California is served by RTUs, which are especially prevalent in small/medium buildings.

This MTI seeks to accelerate adoption of and market interest in **high-efficiency heat pump RTUs with variable-speed fans and connected commissioning and controls** for energy-efficient heating and cooling in California's commercial buildings.

Commercial Replacement & Attachment Window Solutions (CRAWS) MTI



Building windows are responsible for HVAC losses of ~40% - roughly 12% of a typical building's overall energy use. They can also impact thermal comfort, indoor air quality, and other factors.

This MTI promotes **commercial secondary windows as an alternative to full window replacement** in buildings with single-pane windows, particularly schools and public sector buildings - encouraging an **"envelope-first" approach to building decarbonization**.



Residential Heat Pump Water Heating (HPWH) MTI



California has invested heavily in HPWHs, but adoption is still only ~5-6% of annual water heater sales - constrained by high installed costs, the bill impacts of switching from gas, and complex & varied requirements across programs.

This MTI seeks to fill identified market gaps to accelerate HPWH adoption: ensuring availability of **form factors well-suited to California housing stock**, creating a more **consistent statewide infrastructure**, and **aggregating demand** to ultimately drive product cost down and increase contractor and consumer confidence.



Recent CalMTA research and market insight



- **120V Battery-Equipped Induction Ranges Field Study Report**: Presents quantitative and qualitative data about technology performance and user behavior following the installation of battery-equipped induction ranges at an affordable housing complex
- **Room Heat Pump California Window Stock Study**: Summarizes findings from a statewide homeowner survey, indicating that nearly half of California's residential windows are horizontal sliders - which are incompatible with most RHPs
- **Market characterization reports** for second tranche of MTIs: CRTU MTI, CRAWS MTI, Residential HPWH MTI

Stay engaged with MTI development



- **Market Transformation Advisory Board** meetings are open to the public. [Next meeting: March 25 - 9am-1 pm \(virtual\)](#).
- **MTI Plans shared for public comment** via [Energy Division PDA site](#)
 - CRTU MTI Plan posted Dec. 17-Jan. 9
 - CRAWs & Res. HPWH MTI Plans to be posted April-May 2026
- Check [Open Solicitations webpage](#) for active bid opportunities



Transformative Energy Solutions for the public good

Market transformation is a proven approach that works to remove market barriers so that energy efficient, equitable, and climate-friendly approaches become the new standard practice for all Californians.

Sign up for updates at: calmta.org/subscribe/

Questions? Email lcuthoys@calmta.org

Follow us on
LinkedIn:



04: Optional Assembly

CaITF Update



Cal TF & Related CA Work in 2026

Annette Beitel
President, Future
Energy Enterprises, LLC



Overview

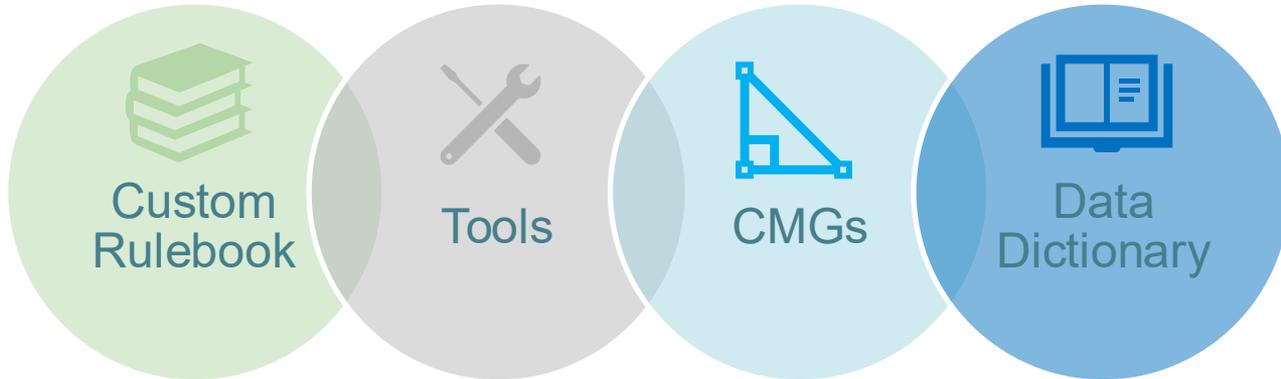
Thank you to CAEECC for inviting FutEE to present current and ongoing work of the California Technical Forum (Cal TF) and related California initiatives.



Current and Planned Cal TF Activities (2026)

Regulatory and Policy Advocacy

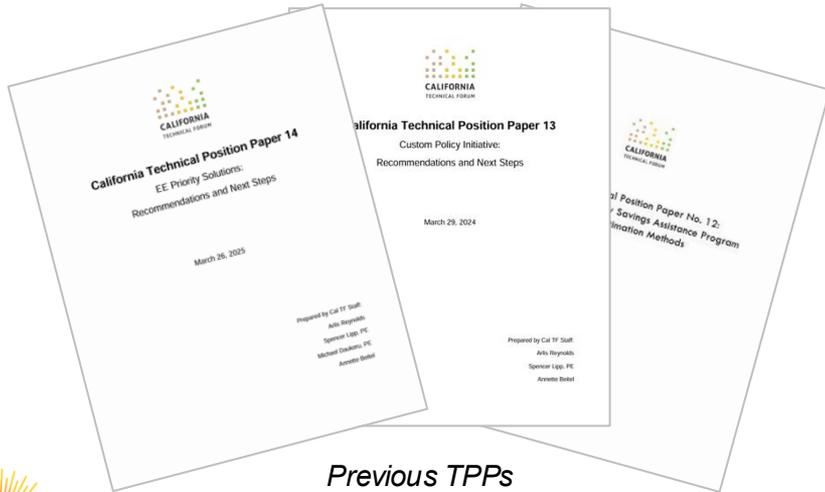
Most Important Objective: File and seek CPUC approval of Key Custom Initiative Documents/Tools



Cal TF Technical Position Papers & White Papers

2026 Cal TF TPP

Cal TF Policy Priorities and Advocacy Strategies (in progress)



Previous TPPs

2026 Cal TF White Paper

This year's topics may include:

- Re-Aligning EM&V to Support California's Current Energy Policy Objectives
- Integrated Demand Side Management (IDSM)
 - Expanding eTRM to permit IDSM measures and other new measures (such as resiliency measures with energy savings attributes)

Full list to be discussed in March 26th Cal TF Meeting (access meeting details [here](#)).

Current and Planned Cal TF Activities (2026)

Leverage Cal TF 2026 “Policy Priorities” with other ongoing policy efforts (where possible)

Achieve Affordability and Unleash IDSM through:



Streamlining Data, Rules, and Processes



Market Focus



Seek Adjustments to Policy Practices, Processes, Rules

More Consensus Yields Greater Impact

eTRM: Data Source of Record

System Integration

Improved integration between CEDARS, CET, and eTRM



Data Analytics

Further development of eTRM to support advanced data analytics

Automation & AI Tools

Auto-validations and NextGen AI Tooling to reduce cost/improve analysis

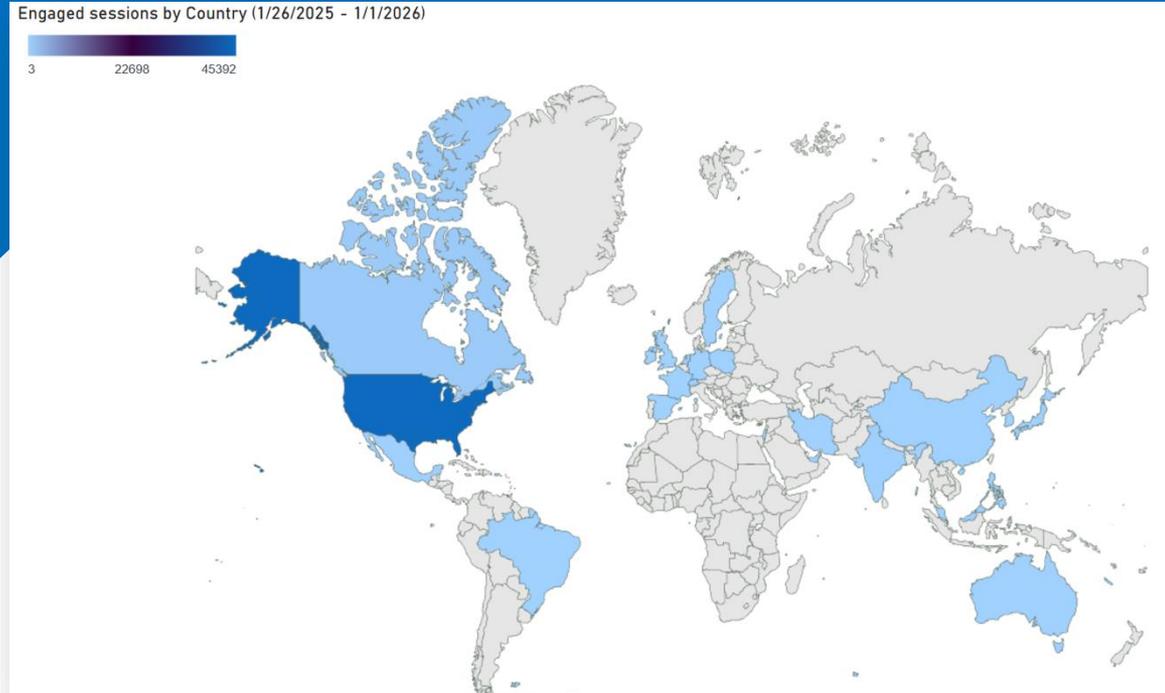
Expanded Use Cases

- IDSM measures
- Resiliency measures with Energy Savings Attributes
- Low-income measures

Example: POU TRM developed by FutEE (streamlined TRM using eTRM data for POU)

FutEE developed, administers, and maintains the CA eTRM database (California's data source for Energy Efficiency measures)

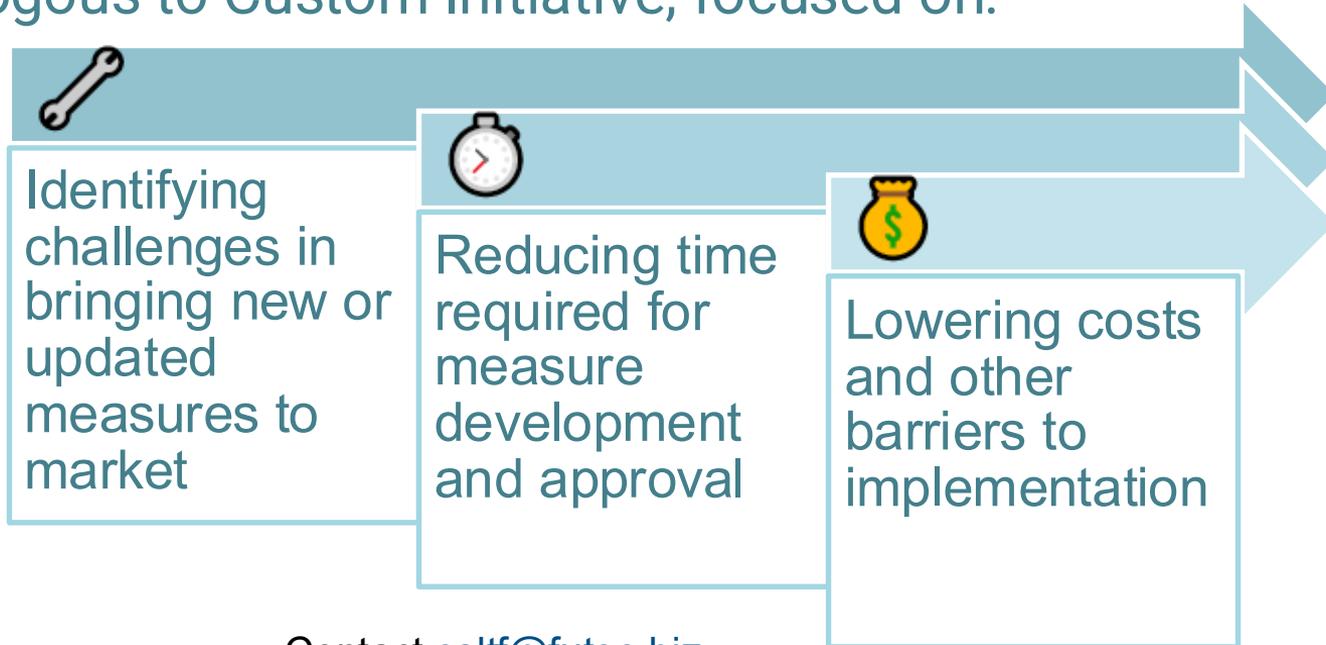
SOFTWARE DESIGN & DEVELOPMENT



The CA eTRM is used extensively by energy practitioners across the globe with more than 4,500 active users

New “Deemed Initiative” – Launching Now

Analogous to Custom Initiative, focused on:



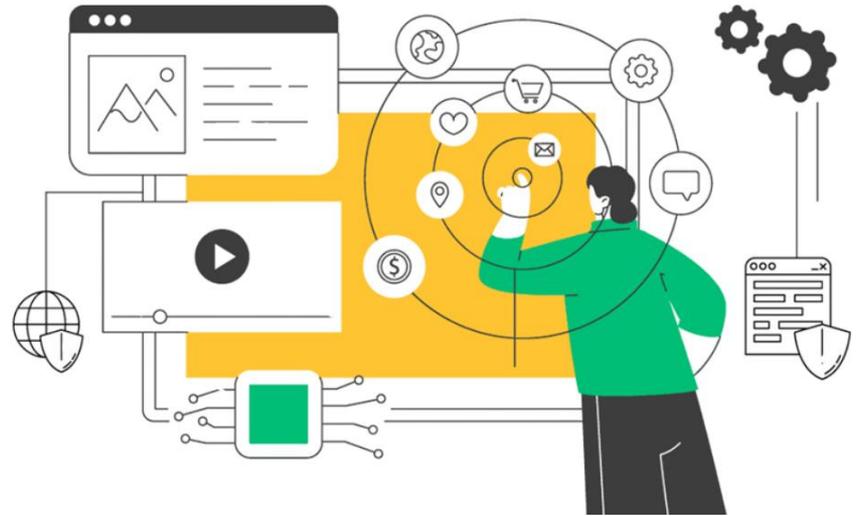
Contact calf@futee.biz

New FutEE Work: PCG Facilitation

FutEE is selected to facilitate the PCG (Project Coordination Group)

PCG Tasks related to ongoing Cal TF work, include:

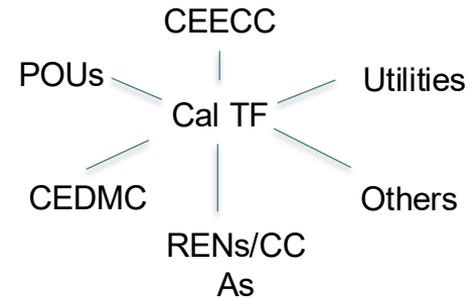
- IDSM measures
- Streamlining data
- Improving documentation
- Improved integration of CEDARs, CET and eTRM
- Governance
- Improved meeting management to foster efficient and effective input and collaboration



Discussion & Conclusion

Coordination & Engagement

Cal TF seeks to leverage and coordinate with activities across the California EE Ecosystem



Discussion (time permitting)

Where are opportunities for Cal TF to leverage or coordinate with ongoing efforts?

Learn More / Get Involved

 For more information: www.caltf.org

 For suggestions, questions, interest in engaging: CalTF@FutEE.biz



Appendix

PA Solicitation Updates

Appendix A

Portfolio Administrator Solicitation Updates

SDG&E Solicitation Update Q1 2026 CAEECC Meeting

Solicitation Status:

No active solicitations.

Changes to program status:

The CPUC Energy Division approved SDG&E's Advice Letter 4494-E/3332-G requesting approval to transition its role as the statewide lead Program Administrator of the Plug Load and Appliance (PLA) to SCE on November 6, 2024.

SDG&E is expected to submit an Advice Letter to close its PLA program in March 2026.

Contact Information:

Stacie Risley: SRisley@sdge.com

Solicitation Updates

Solicitation	On Track?	Stage	Summary/Next Action	Deliverables
Large Commercial	Yes	AL Filing	<ul style="list-style-type: none"> AL filed on Feb 25th Development of Implementation plan 	<ul style="list-style-type: none"> CPUC Approval of AL
IDEAA Round 3 (Windows)	Delayed	Negotiations	<ul style="list-style-type: none"> Measure Package is still pending final approval (est. March) 	<ul style="list-style-type: none"> CPUC approved MP Fully Executed Contract
IDEAA Round 4	Yes	RFP Evaluation	<ul style="list-style-type: none"> Bidder Notification 	<ul style="list-style-type: none"> Scoring of proposals

PG&E 2024 – 2026 Solicitation Schedule

Year		2024												2025												2026			
Quarter		Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1		Q2	
Month		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Local	2024 Summer Reliability																												
Local Res & Comm	Zonal Electrification – Pilot 1																												
Local Res & Comm	Zonal Electrification – Pilot 2																												
Local Residential	Res. Electrification Equity																												
Local Commercial	Comm. Energy Mgmt. (SEM Expansion)																												
Local Residential	Res. Whole Home Load Management																												
State wide WE&T	SW WE&T Career and Workforce Readiness																												
State wide Commercial	SW HVAC																												

Legend:	
	RFA Prep
	RFA
	RFP Prep
	RFP
	Contract Negotiation
	AL (if applicable) + Approval + IP

Recently Launched Programs:

- Commercial Energy Management (SEM Expansion)
- Residential Whole Home Load Management

Advice Letters Under Review:

- None

Contract Execution:

- SW WE&T Career & Workforce Readiness

Terminated Solicitations:

- None

Kicking-off Negotiations:

- SW WE&T Career & Workforce Readiness

In-flight Solicitations:

- SW HVAC

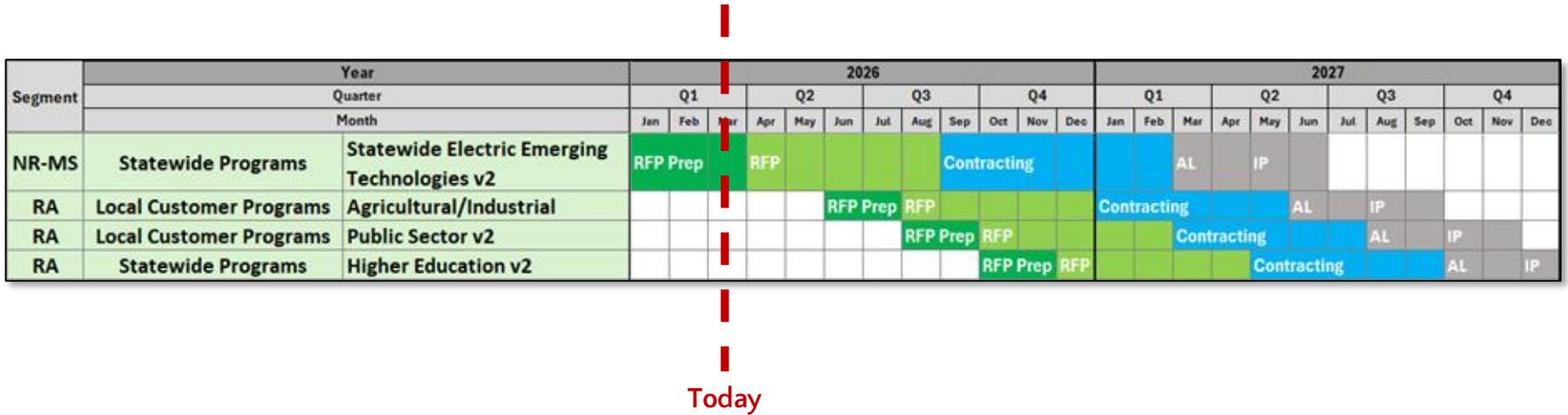
Upcoming in 2026:

- TBD

Internal

Solicitation Contact: PMOFSolicitations@pge.com

SCE Solicitation Timeline



LEGEND:

RFA Prep
RFA/RFI
RFP Prep
RFP
Contract Negotiation
AL (if applicable) + Approval + IP

Upcoming Solicitations:

- Statewide Electric Emerging Technologies
- Agricultural/Industrial

Proposed Solicitations:

- Public Sector
- Higher Education