



Local Governments Empowering Our Communities

## BayREN Regional Forum

No Missed Opportunities: Decarbonization of Public Buildings

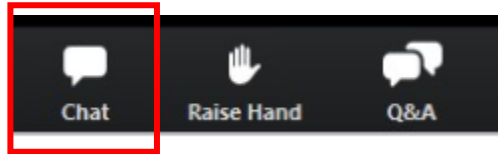
September 16, 2020

# Zoom Meeting How To's

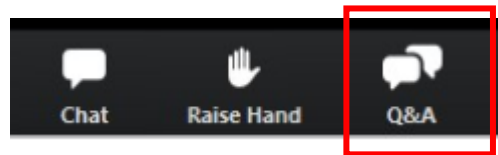
- Video camera not needed.
- Please use the chat feature to interact with panelists and other participants.
- Please use Q&A function or raise hand function if you have a question or comment.
- We will break for questions at the end of each session.

# Zoom Meeting How To's

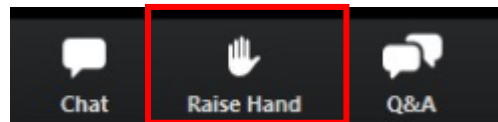
- Chat in lower left-hand corner



- Q&A button at right side of tool bar



- Raise hand button in middle of tool bar





# BayREN County Reps



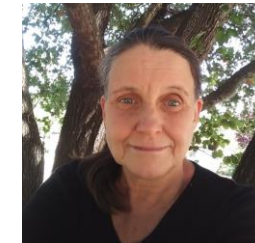
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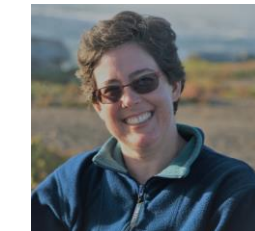
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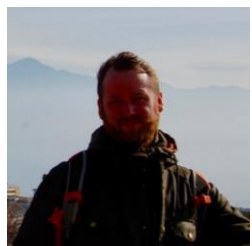
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# Programs

- Single Family Home+
- Green Labeling
- Bay Area Multifamily Building Enhancements (BAMBE)
- BayREN Business
- Water Upgrades \$ave
- Codes and Standards

# Codes and Standards

Joint effort of Bay Area local governments to support the development and implementation of tools, best practices, trainings, and policies for accelerating compliance with, and exceeding, California Title 24, Part 6.

## Two Broad Areas of Effort

- **Compliance Improvement:** Investigate areas for improvement in code enforcement processes & offer solutions
- **Policy:** Share best practices & develop regional resources for going above code



# Codes and Standards

## Energy Code Trainings

- **Free live online** trainings on Energy Code Compliance
  - 60-90 minutes in length
  - can be scheduled for staff meetings
  - ICC CEUs for building department staff
  - Topics include QII, Nonres TI, HPWH, HERS Registry and more
- **On-demand** Heat Pump Water Heater training now available
- Scheduled sessions can be viewed at [bayrencodes.org/events](https://www.bayrencodes.org/events)
- More at <https://www.bayrencodes.org/services/trainings/>

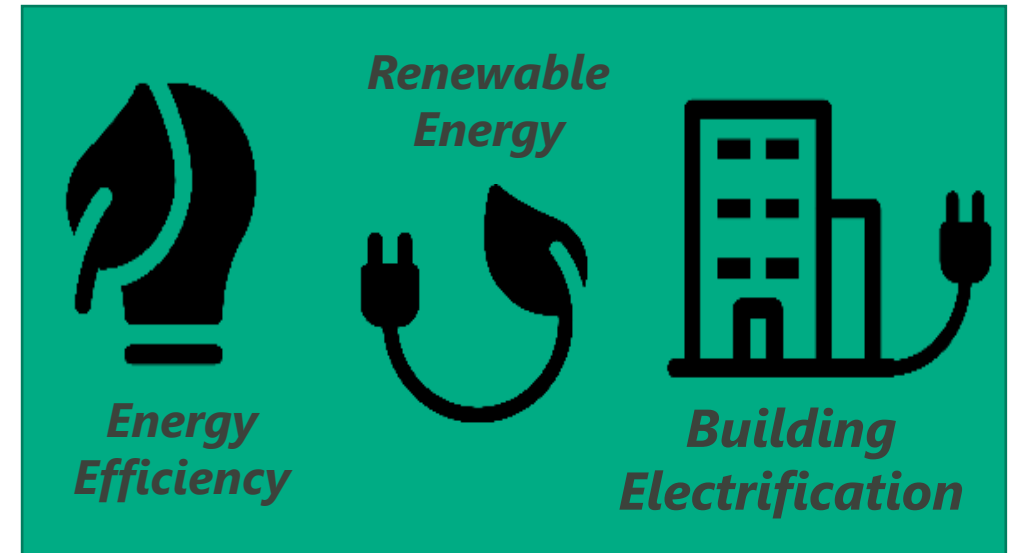




# Codes and Standards

## Municipal ZNE/ZNC Technical Assistance

- **Technical Assistance:** No-cost engineering analysis to help local governments retrofit or build municipal buildings to be ZNE/ZNC, or to demonstrate ZNE/ZNC policy feasibility for municipal building portfolios.
- **Municipal ZNE RFP and OPR Template Language:** Request for proposal (RFP) and owner project requirements (OPR) template language for local governments to encourage developers to construct new municipal buildings to ZNE.



# Codes and Standards

## ePermit Tool

A free, user-friendly online tool that provides information and Energy Code requirements for building permit forms for three of the most common types of home projects:

- Replacing a hot water heater
- Replacing all or part of a roof
- Replacing or adding new windows

***Available at:***

<https://www.bayrenerpermittool.com/generic#!/>



# Presentations & Materials

All presentations & materials will be emailed to you and available at <https://www.bayrencodes.org/events>

# Disclaimer

*The views expressed in these presentations are those of the author(s) and do not necessarily reflect the position of the Association of Bay Area Governments, the Bay Area Regional Energy Network or the jurisdictions that BayREN represents. Any questions pertaining to the views and information in the presentations should be directed to the author(s).*

# Meeting Agenda

## **Part I: Introduction to Challenges and Opportunities of Decarbonization of Public Buildings**

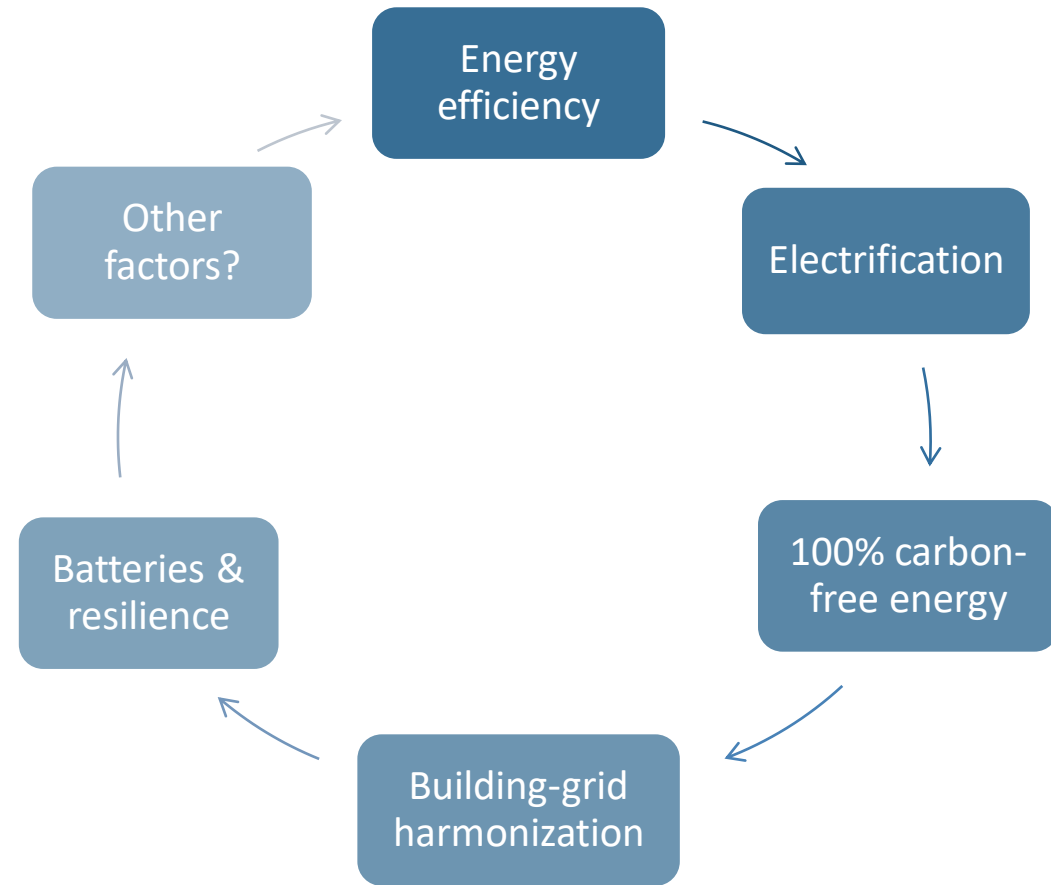
- 9:15 am** Municipal Projects: Lessons Learned & Opportunities
- 9:35 am** Considering Projects Holistically: Technological, Financial, and Operational Factors
- 10:00 am** Part I: Q&A with Speakers
- 10:10 am** California's Regulatory Landscape & Implications for Local Governments on Municipal Building Projects
- 10:30 am** Poll and Break

## **Part II: Panel on Local Government Strategies**

- 10:45 am** Panel: Local Strategies, Policies, and Projects
- 11:35 am** Part II: Q&A with Speakers
- 11:50 am** Handouts, Closing Comments & Group Takeaways

Part I:  
Introduction to  
Challenges & Opportunities of  
Decarbonizing Public Buildings

# What is included in building decarbonization?



# Zero Net Energy vs. Zero Net Carbon

## Zero Net Energy

- Combines energy efficiency and renewable energy generation to **consume only as much energy as can be produced onsite** through renewable resources over a specified time period.

## Zero Net Carbon

- Is highly energy-efficient and produces onsite, or procures, carbon-free renewable energy in an amount sufficient to **offset the annual carbon emissions** associated with operations.

Sources:

U.S. Department of Energy

Zero Carbon Building Standard Canada Green Building Council





# Today's focus: Public buildings

- Owned and operated by public agencies
- Examples: libraries, community centers, city administrative buildings & schools



# Municipal Projects: Lessons Learned & Opportunities



**Blake Herrschaft**

Director of Building Decarbonization  
DNV GL

# Considering Projects Holistically: Technological, Financial, and Operational Factors



**Joe Fullerton**

Energy and Sustainability Manager  
San Mateo County Community College District

# Part I Q&A

**Panelists: Blake Herrschaft & Joe Fullerton**

**Moderator: Susan Wright**

# California's Regulatory Landscape & Implications for Local Governments on Municipal Building Projects



**Sara Baldwin**  
Electrification Policy Director  
Energy Innovation

# Poll Questions

# 15-MINUTE BREAK

# Part II: Panel on Local Government Strategies



# Examples from Bay Area Jurisdictions



**Erik Pearson**

Environmental Services Manager  
City of Hayward



**Eden Brukman**

Senior Green Building Coordinator  
San Francisco Department of the  
Environment

# BayREN Municipal Zero Net Energy/ Zero Net Carbon Assistance



**Peter Pollard**  
Principal  
kW Engineering

# American Cities Climate Challenge



**Betty Seto**

Network Manager, ACCC  
Natural Resources Defense Council



**Wendy Lee**

Policy Advisor, ACCC  
Natural Resources Defense Council

# Part II Q&A

**Panelists: Erik Pearson, Eden Brukman, Peter Pollard, Betty Seto & Wendy Lee**

**Moderator: Sara Baldwin**

# Handouts/Resources

- Available on the BayREN Codes & Standards website!  
<https://bit.ly/35oQkZc>
- ZNE/ZNC BayREN program, CCA programs, example ZNE policies, and more

# Group Takeaways Exercise

Go to [www.menti.com](https://www.menti.com)  
Enter code 5648416

# Enjoy the Event?

Please Complete Our Feedback Survey

- Please check your email and follow the link to our survey
- [Surveymonkey.com/r/BayRENQ3RegionalForumSurvey](https://www.surveymonkey.com/r/BayRENQ3RegionalForumSurvey)

***Thank you!***