BayRENE 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
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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
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
  - More at https://www.bayrencodes.org/services/trainings/
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
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?

- Energy efficiency
- Electrification
- Batteries & resilience
- Building-grid harmonization
- 100% carbon-free energy
- Other factors?
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
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/BayRENM3RegionalForumSurvey

Thank you!