



Local Governments Empowering Our Communities

BayREN Regional Forum

Commercial Conundrums and Successes
in Building Decarbonization

June 5, 2024



Programs

- Single Family Home+
- Green Labeling
- Bay Area Multifamily Building Enhancements (BAMBE)
- BayREN Business
- Water Upgrades \$ave
- BayREN Refrigeration Replacement (BRRR) **NEW!**
- Climate Careers **NEW!**
- Public Sector Programs:
 - Integrated Energy Services **NEW!**
 - Targeted Decarbonization Services **NEW!**
- Codes and Standards

www.bayren.org



Codes and Standards

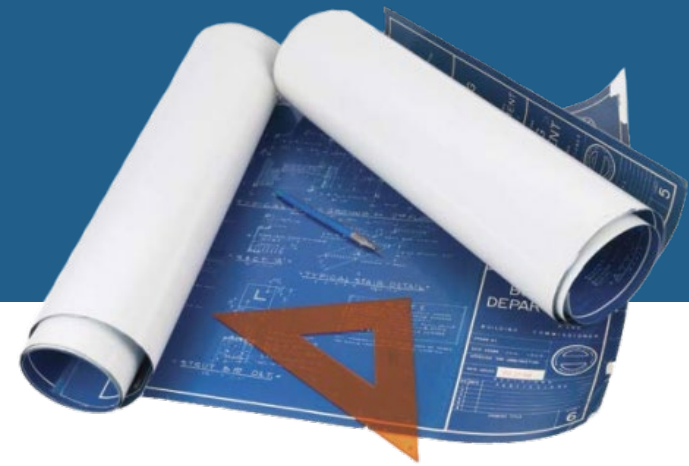
Joint effort of Bay Area local governments to support the development and implementation of tools, best practices, trainings, and policies for accelerating compliance with, and exceeding, California Title 24, Part 6.

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 in-person or live online** trainings on Energy Code Compliance
 - 60-90 minutes in length; can be scheduled for staff meetings
 - ICC CEUs for building department staff
- **On-demand** *Heat Pump HVAC* and *Heat Pump Water Heater* trainings now available
- Scheduled sessions can be viewed at <https://www.bayren.org/events-training> and include:
 - 6/12: HERS Registry
 - 6/26: Navigating the Energy Code

Codes and Standards

Online resources include:

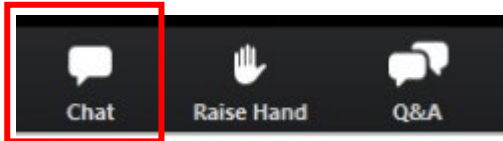
- On-demand trainings for building departments on:
 - Heat Pump HVAC Systems
 - Heat Pump Water Heaters
- Heat Pump Water Heater code assistance sheet
- Electrical Load Estimator
- Permit guides for applicants on common projects like window replacements and re-roofing
- Slides and recordings from all Regional Forums

Zoom Meeting How To's

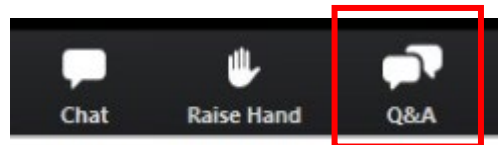
- Video camera not needed.
- Please use the chat feature to interact with panelists and other participants.
- Please use Q&A function or raise hand function if you have a question or comment.
- We will break for questions at the end of each session.

Zoom Meeting How To's

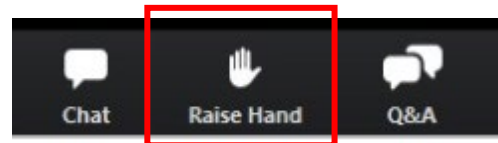
- Chat in lower left-hand corner



- Q&A button at right side of tool bar



- Raise hand button in middle of tool bar



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).

Policy on AI Attendees

BayREN is in the process of developing a policy on the use of Artificial Intelligence (AI) services during our events. Until that policy is in place, AI services are prohibited. Please do not use any AI services during today's Forum.

This Forum is being recorded, and the slides and recordings will be available on our website in about a week.

Presentations & Materials

All presentations & materials will be emailed to you after the Forum and available at <https://www.bayren.org/events-training>

Meeting Agenda

9:00 am Introduction to BayREN Forum

9:20 am **Efficient Electric Kitchens - Restaurant/Tenant Perspectives in Existing Buildings and Heat Pump Water Heaters**

- Chef's Perspective: Induction in a Full-Service Restaurant
- Food Service Fundamentals
- Health Regulations and Heat Pump Water Heaters for Commercial Kitchens

10:10 am Q&A

10:25 am 10 min. Break

10:35 am **Commercial Building Decarbonization Panel: Electrification of Existing Commercial HVAC and Hot Water**

- Fundamentals of Commercial Real Estate for Decarbonization
- Large Commercial Building Decarbonization Example - Levi's Plaza
- Helping Commercial Customers Decarbonize
- Rooftop Units (RTUs): "Simple" Decarbonization Opportunity and Rebate Program
- BayREN Business Program

11:35 am Q&A

11:55 am Closing Remarks



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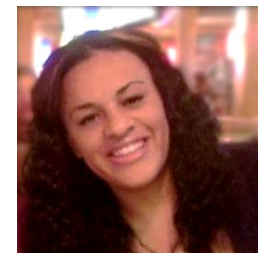
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Commercial Building Decarbonization



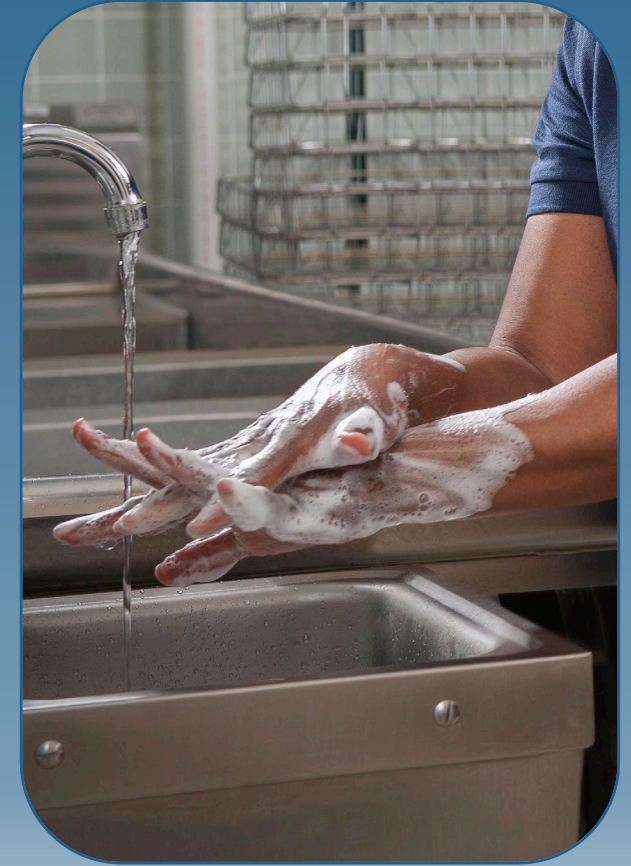
Drivers



Pollution

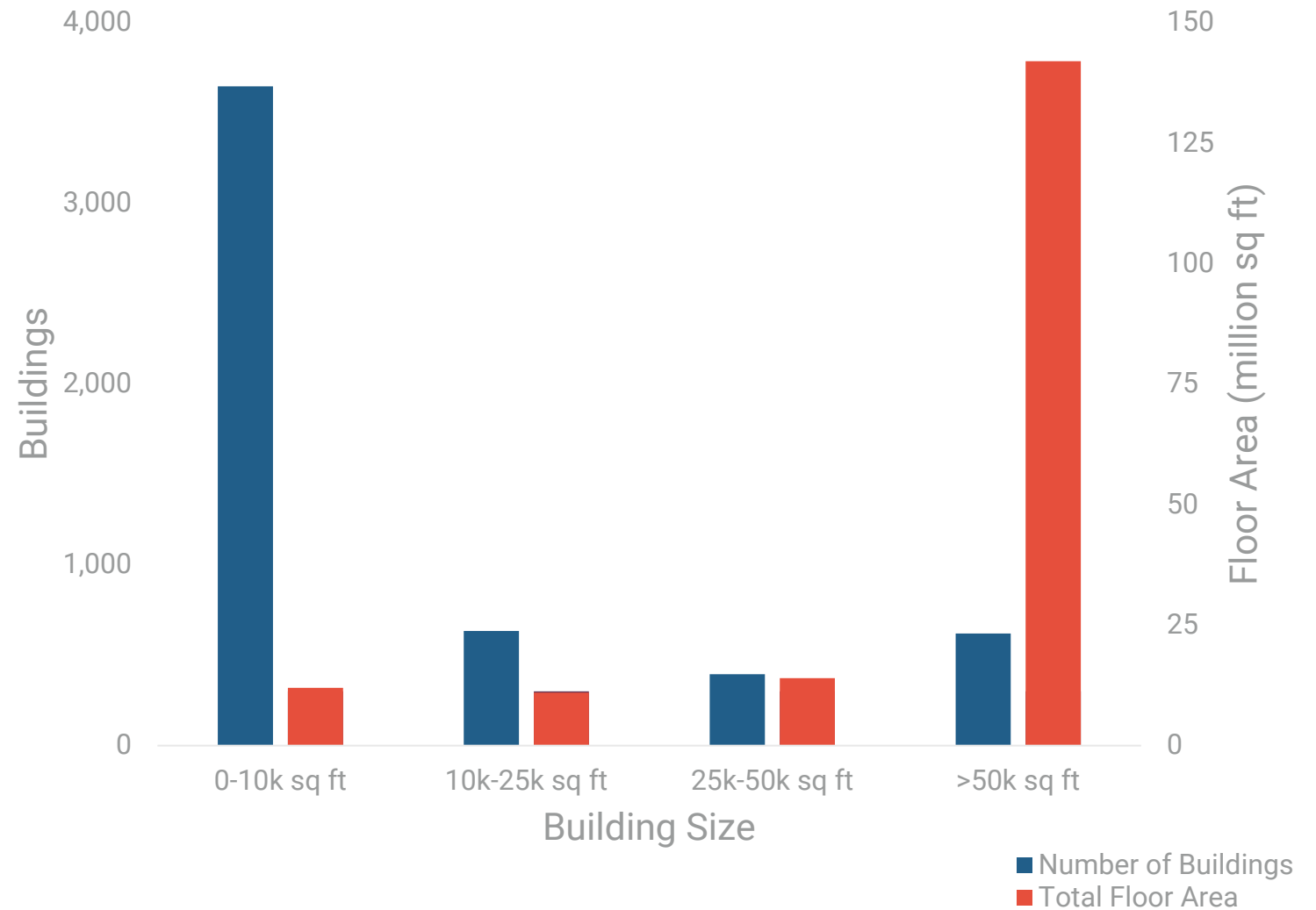


Hazards



Health

Existing Commercial Buildings: San Francisco



Efficient Electric Kitchens - Restaurant/Tenant Perspectives in Existing Buildings and Heat Pump Water Heaters

Chef's Perspective: Induction in a Full-Service Restaurant



Chris Galarza

Founder & CEO

Forward Dining Solutions



The Food Service Technology Center

FrontierFSTC.com



Presentation by:

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Efficient Electric Kitchens - Restaurant/Tenant Perspectives in Existing Buildings and Heat Pump Water Heaters Health Regulations and Heat Pump Water Heaters for Commercial Kitchens



Amin Delegah

Associate Director – Advanced Energy
TRC Companies



Barry Hooper

Sr. Green Building Coordinator
City and County of San Francisco
Environment Department

Q&A

Break
5 min

Commercial Building Decarbonization Panel: Electrification of Existing Commercial HVAC and Hot Water Fundamentals of Commercial Real Estate for Decarbonization



Brenden McEneaney

Senior Vice President – Sustainability

Jones Lang LaSalle

Commercial Building Decarbonization Panel: Electrification of Existing Commercial HVAC and Hot Water

Large Commercial Building Decarbonization Example - Levi's Plaza



Becca Timms

Director of Environmental, Social and Governance (ESG)
Jamestown

Commercial Building Decarbonization Panel: Electrification of Existing Commercial HVAC and Hot Water Rooftop Units (RTUs): “Simple” Decarbonization Opportunity and Rebate Program



Raul Hernandez
Marketing Lead
Silicon Valley Clean Energy

Commercial Building Decarbonization Panel: Electrification of Existing Commercial HVAC and Hot Water
BayREN Business Program



Cara Bautista-Rao

Senior Energy Specialist

City and County of San Francisco Environment Department

Q&A

Resources

- Slides will be posted at www.bayren.org/events/commercial-conundrums-and-successes-building-decarbonization-2024-06-05

Enjoy the Event (or Not)?

Please Complete Our Feedback Survey

- Please check your email and follow the link to our survey:
<https://forms.gle/HyBh2Wzp2uA7PqLk8>
- Respondents will be entered into a giveaway for a solar phone charger!



Thank you!

