



Local Governments Empowering Our Communities

BayREN Regional Forum

Heat Pumps for Water and Space Heating:
From the Technical to the Real World Experience

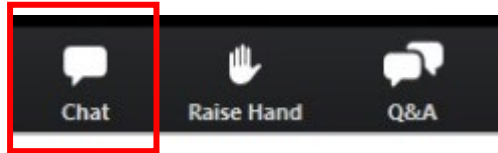
March 17th, 2022

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

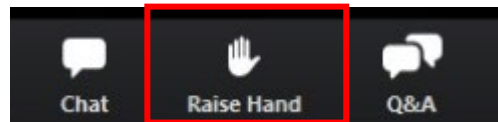
- Chat in lower left-hand corner



- Q&A button at right side of tool bar



- Raise hand button in middle of tool bar





BayREN County Reps



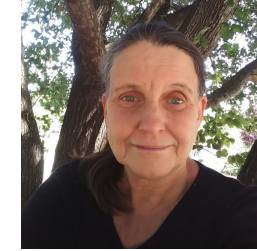
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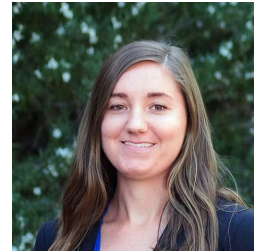
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Programs

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

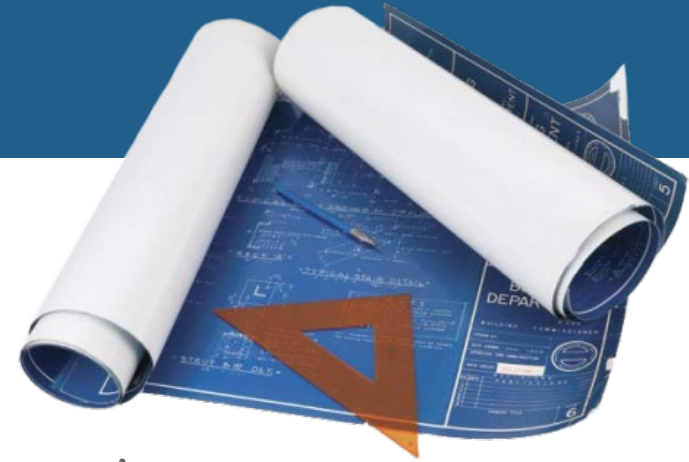
Reach Code Support

- Information on the reach code process, legal requirements and more on our website: <https://www.bayren.org/local-government-resources/energy-policies-reach-codes>
- Technical support from reach code experts available to local government staff by request through county representatives
- Customized trainings available to building departments on local reach code implementation and enforcement

Codes and Standards

Energy Code Trainings

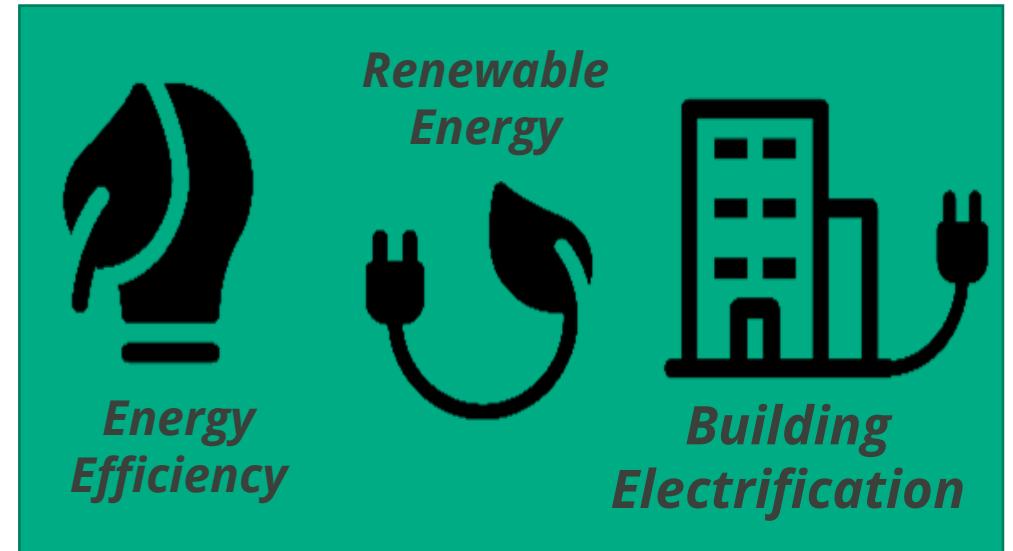
- **Free live online** trainings on Energy Code Compliance
 - 60-90 minutes in length; can be scheduled for staff meetings
 - ICC CEUs for building department staff
- **On-demand** Heat Pump Water Heater training now available
- Scheduled sessions can be viewed at <https://www.bayren.org/events-training> and include:
 - 4/14: Navigating the Energy Code
 - 4/27: Residential Additions



Codes and Standards

Municipal ZNE/ZNC Technical Assistance

- **Technical Assistance:** BayREN provides free engineering technical assistance and resources to help local governments save energy and money while reducing their carbon footprints by moving towards Zero Net Energy (ZNE) or Zero Net Carbon (ZNC) with their buildings.
- **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.



Presentations & Materials

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

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

- 9:00 am** Introduction to BayREN Forum
- 9:15 am** Why Heat Pumps & How to Advocate for Market Transformation
- 9:25 am** Technical Perspectives of Heat Pump Space & Water Heating
- 9:55 am** Real World Experience with Heat Pump Space & Water Heating
- 10:35 am** 10 min. Break
- 10:45 am** More Resources for Heat Pump Technologies
- 11:20 am** TECH Overview & Initiatives
- 11:55 am** Wrap Up

Why Heat Pumps & How to Advocate For Them



Wei-Tai Kwok
City Council Member,
City of Lafayette

Technical Perspectives of Heat Pump Space & Water Heating



Larry Waters
Founder,
Electrify My Home



John Lombardi
Service Manager,
Barnett Plumbing

Real World Experience with Heat Pump Space & Water Heating



Wei-Tai Kwok
Homeowner



Sarah Spengeman
Homeowner

Q&A

More Resources for Heat Pump Technologies



Chad Asay
Director,
Advanced Energy Center



Rebecca Rothman
Senior Project Manager,
Switch Is On

Q&A

TECH Overview & Initiatives



Peter Florin

Senior Project Manager,
Energy Solutions



Mark Hall

Founder,
Revalue.io



Matt Chiodo

Senior Program Consultant,
Frontier Energy

Q&A

Handouts/Resources

- Posted at <https://www.bayren.org/events/regional-forum-heat-pumps-water-and-space-heating-technical-real-world-experience-2022-03-17>

Enjoy the Event?

Please Complete Our Feedback Survey

- Please check your email and follow the link to our survey:
<https://www.surveymonkey.com/r/BayREN2022Q1RegionalForumSurvey>
- Respondents will be entered into a giveaway for a solar phone charger!

Thank you!

