Zero Energy Buildings for Local Governments

David Brower Center | Berkeley, CA November 16, 2016

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Who's Here



BayREN (Bay Area Regional Energy Network)



- Comprised of public agencies representing all nine counties in the Bay Area
- Draws on the expertise, experience, and proven track record of local agencies and their staff
- One of only two regional energy networks in California
- Funding provided by the California Public Utilities Commission (CPUC)



Programs

- Single Family Home Upgrade Program
- Bay Area Multifamily Building Enhancement Program
- Financing
 - Pay-as-You-Save Water Efficiency
 - Commercial PACE
- Codes and Standards





Codes and Standards

- A joint effort of Bay Area local governments to achieve full compliance with provisions of the California Energy Code
- A locally driven effort to reduce energy use in buildings through improved design and construction practices, and enhanced code compliance and enforcement.



Codes and Standards



 Compliance Improvement: Investigate areas for improvement in code enforcement processes & offer solutions



 Training: Provide support for building industry representatives at no-cost to better implement energy code



Policy: Share best practices & develop regional resources for going above code



Training Offerings

BayREN offers 9 different courses covering residential and nonresidential 2016 energy code compliance and enforcement.

- Residential New Construction
- Residential Forms and Permit Submittals for Additions
- Residential Envelope Compliance
- Residential HERS Registry Training for Building Departments
- Nonresidential New Construction
- Nonresidential Fenestration Compliance
- Nonresidential Mechanical Compliance
- Nonresidential Lighting Compliance
- Nonresidential Tenant Improvements and Alterations

Course Descriptions: https://www.bayren.org/codes/trainings



C&S Impacts

- Training: 161 Energy Code Trainings with strategies for enhancing compliance
 - 1,461 attending building department staff and building professionals
- Compliance Improvement: 24 engaged building dept.
 - Resources to promote a greater understanding of the 2013 energy code
 - Best practices to implement the energy code and navigate requirements with maximum efficiency
- Policy: 16 regional forums to engage stakeholders
 - 847 attending local government staff, policy leaders, and local building professionals



Today's Goals

- Learn about trends, case studies on ZNE buildings, new programs and tools to support local government ZNE policy and plan development
- Get inspired new research and emerging trends
- Interact meet your colleagues and resource providers and ask questions!



Today's Agenda

Start Time	Agenda Item
8:30 a.m.	Breakfast & Networking
9:00 a.m.	Welcome & Introductions
9:45 a.m.	ZNE Case Studies, Pilots & programs
10:20 a.m.	Break
10:30 a.m.	Local Government Strategies for Getting to Zero
11:30 a.m.	Planning for ZNE: Introduction & Group Activities
12:15 p.m.	Lunch & Keynote Presentation
1:00 p.m.	ZNE Tools & Resources
1:45 p.m.	Incorporating ZNE into your Policies & Delivery Process
1:45 p.m.	Wrap Up, Key Takeaways, and Next Steps
3:00 p.m.	Optional ZNE Building Tour: Berkeley Library West Branch
	Registration Required

BAY Regional Energy AREA Network

Today's Speakers



Heather Seraphina Flint Chatto Project Manager, New Buildings Institute



Erik Pearson Environmental Services Manager, City of Hayward



Jacqueline Falconio Resource Conservation Specialist, County of San Mateo



Bruce Playle Principal, Indigo I Hammond & Playle Architects, LLP



Cathy HigginsResearch Director, New
Buildings Institute



Betty Seto
Department of the Sustainable
Buildings and Communities
Head, DNV GL



Peter Turnbull
Principal, Pacific Gas and
Electric Company



Cole Roberts Associate Pricipal, Arup



Presentations & Materials

All presentations & materials can be downloaded following today's forum:

www.bayren.org/codes/regional-forums