ZNE Tools & Resources

- Overview of Tools & Resources NBI
- Municipal Policy Templates to Accelerate ZNE
 Building DNVGL
 - Zero Energy Performance Index City of SF









Getting to Zero Workshops for ZNE Early Adopters

- Give participants an overview of California ZNE policy goals
- Foster peer to peer learning networks
- Showcase project case studies
- Provide customized tools and resources necessary to help support education and advocacy efforts

ZNE Schools Workshop

- Help participants develop policy targets
- Provide support for programs or projects with ZNE performance goals



ASSEMBLING THE BUILDING BLOCKS TO DEVELOP YOUR ZNE PLANS & POLICIES



BUILDING BLOCKS FOR ZNE PLANNING



ZNE Communication Toolkit

ZNE Messaging Platform—Provides strong, overarching core messages and supplemental supporting message targeting key audiences.

Intro to ZNE Presentation Template—A basic slide deck introducing the core messages and activities in California.

ZNE Companion Guide/Fact Sheets—Provides an overview of the ZNE Communications Toolkit and contains the complete set of factsheets. The following fact sheets provide broad information about ZNE and audience-specific content

nbi new buildings

Learn more at:

Planning Templates & Worksheets

STEP 1 - Laying the Foundation

- Vision & Target Setting (Worksheet 1A & Instructions)
- Backcasting to ZNE Portfolio Scale & Building Scale (Worksheet 1B)

STEP 2 - Orchestrating Resources

- Stakeholder Communication Goals (Worksheet 2A & Sample)
- Stakeholder Mapping (Worksheets 2B)
- ZNE Communications Planning Strategies for Internal & External Stakeholders

STEP 3 - Developing your ZNE Plans

- ZNE Gap Analysis (Sample Considerations & Worksheet 3A)
- Alignment Plan for Addressing Gaps (Sample Strategies & Worksheet 3B)
- Integrating ZNE Into your Delivery Model (Sample & Worksheet 4)

Education & Training Presentations

1. Introduction to ZNE (Part of the ZNE Communications Toolkit)

2. Assembling the Building Blocks to Develop your ZNE Plans & Policies

- Vision & target Setting & Backcasting
- Developing your Communication & Outreach Plans: ZNE Toolkit, Message Platform & Stakeholder Mapping
- Gap Analysis & Alignment
- Delivery Methods



www.newbuildings.org/zne-communications-toolkit or visit www. newbuildings.org/zero-energy

ZNE & Ultra-Low Energy

Case Studies

 CPUC Case Study Briefs **& NBI ZNE Case Studies** http://newbuildings.org/case-studies-zne-

projects

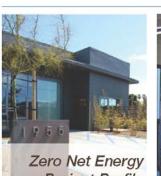
PG&E Case Studies

http://energydesignresources.com/resourc es/publications/case-studies/case-studieszne-non-residential-buildings.aspx

- **NBI Registry** http://newbuildings.org/share
- Getting to Zero Database

http://newbuildings.org/getting-to-zerobuildings-database





Project Profile Small Office Retrofi

OVERVIEW

Site Details

Building Size: 4,500 SF Location: San Diego, California Construction Type: Retrofit Construction Year: 1955, 2009 Building Type: Small Office CA Climate Zone: 7





PRODUCTION EU TOTAL EUI NET EU

Site Energy Use Index (EUI) kBtu/SF/year

The Energy Equation: the building energy use minus the renewables production equals the net energy of the building. Buildings may be 'Getting to Zero' and have a net EU



BACON STREET OFFICES

The Bacon Street Office project is a 4,500 SF retrofit of a single-story, 1950's-era auto repair shop into a high performance office for the firm ARCHITECTS hannah gabriel wells. Through creative design strategies, renewable energy generation and with support from local utilities, including the Savings by Design program, the project has achieved zero net energy goals. In fact, this project is so energy efficient it returns power to the grid.

Planning & Design Approach

The project demonstrates the difference between typical projects and ZNE projects. The following steps were critical to success:

- · Start early and use an integrated design process
- · Outline goals and benefits
- Structure fees to provide more research and design iterations
- · Stay flexible and inclusive with the design process

Energy Efficiency Strategies and Features

Daylighting: A wall of windows along the public street side of the building provides daylight and views of a new landscaped parking court with native vegetation and canopy trees. This light is balanced with toplighting from diffuse skylights at the back of the space. Illuminating walls, ceilings and balancing

BayREN 2016 Fall Forum: ZNE For Local Governments Workshop

ZNE Project Profiles

- News & Events
- Policy & Planning Updates
- Upcoming Training & Education
- New Research
- Low Energy Building Innovations

ZNE ACTION BULLETIN Progress Towards Zero Net Energy Buildings

Email heather@newbuildings.org to sign up

ZNE Communication Toolkit Contents

- 1. Message Platform Key target audience messages
- 2. ZNE Companion Guide/Fact Sheets General info, key audiences messages

3. ZNE Action Bulletin

News, case studies, policy, research, events and trainings

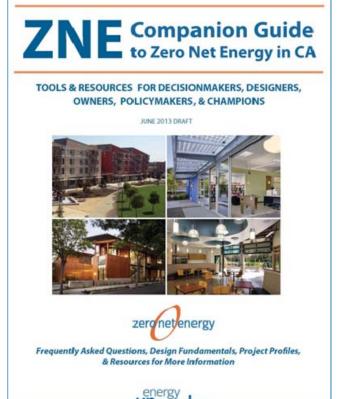
4. Case Studies

California project examples, including design strategies, planning, cost, and lessons learned

5. Intro to ZNE Presentation

ZNE What, Why & How

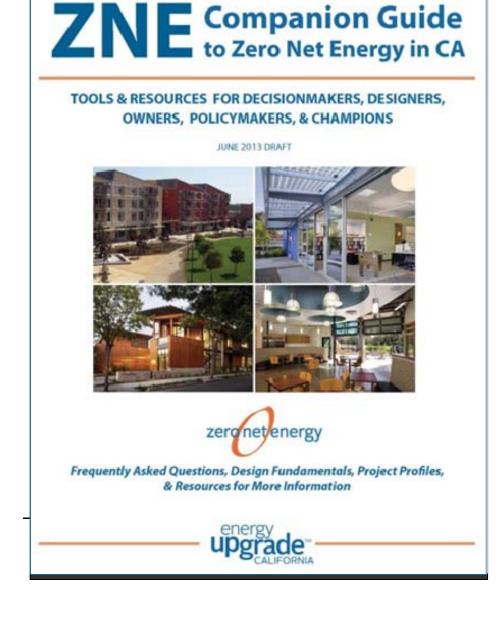
www.newbuildings.org/zne-communications-toolkit





Fact Sheets/ZNE Companion Guide

- Policymakers
- Decisionmakers of Schools & Public Buildings
- Architecture & Engineering
- Commercial Owners
- FAQ's

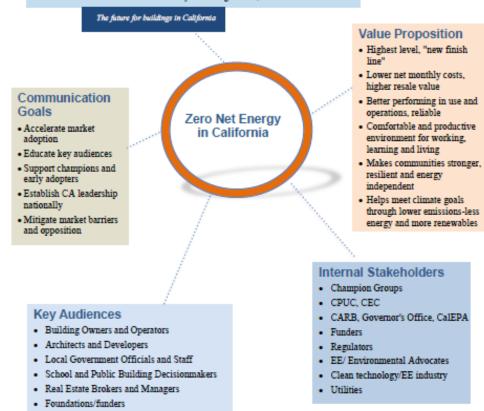




ZNE Message Platform

Marketing Definition

A ZNE building is highly energy efficient and produces as much energy as it consumes over the course of a year through clean, renewable resources.





Zero Net Energy MESSAGE PLATFORM

Zero net energy (ZNE) buildings are becoming the new standard for achieving tignificant energy savings and reducing envisions in the built environment. California set an aggressive course for a new "zero finish line" knowing it will lead to the highest levels of efficiency in buildings, more renewable energy generation, and less carbon ensistions. Yet agencies understand that regulation alone will not get the state to its goals by 2020 and 2030. To advance ZNE aloption, effective communications are essential to help catalyze voluntary investment and innovation, and motivate building owners, buyes and developers to prioritize ZNE while mandatory codes and standards evolve.

ZNE Communications

upgrade

This Message Platform present strong, overarching core messages and supplemental supporting messages targeting key andiances. It will create the basis of how stakeholders talk shour ZNE and is designed to help define 2NE buildings and demonstrate that ZNE is a targible, achievable benchmark and the future of buildings in California. "The two words information and communication are often used inferchangeably, but they signify quite different things, information is giving out; communication is getting through."

- Sydney Harris



DPROvalizationCorporate DRos (See Depuis Trive reast-closelies 1954 offices training wave transitionmed into a vibrant, Jonn Neil Davery, and substantible "kerning lab" and a great place to work. (Photo coulsey of SDGSE)

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ZNE Presentation Templates

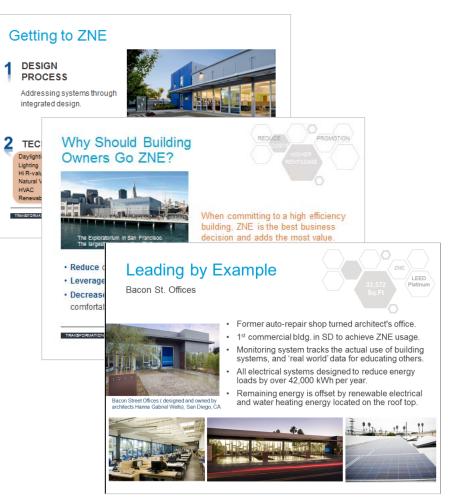
- Primarily commercial
- Carries general messages
- CA Goals for ZNE
- ZNE building examples
- Open source platform! Slide collection will grow as champions and others develop their own ZNE presentations

Users of the Presentation:

- Champions & Early Adopters
- Utilities

zeronetenergy

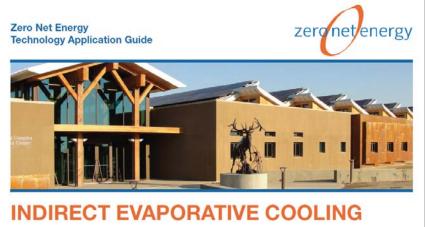
Communications staff



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3 New: ZNE Technology Application Guides





http://newbuildings.org/zero-energy





Savings By Design

