

## DOCKETED

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**CALIFORNIA ENERGY COMMISSION**1516 Ninth Street  
Sacramento, California 95814Main website: [www.energy.ca.gov](http://www.energy.ca.gov)

In the matter of,	)	Docket No. 15-IEPR-05
	)	
<i>2015 Integrated Energy Policy Report (2015</i>	)	NOTICE OF WORKSHOP
<i>IEPR)</i>	)	
_____	)	RE: Zero Net Energy Buildings

## Notice of IEPR Staff Workshop on Zero Net Energy for Newly Constructed Buildings

The California Energy Commission staff will conduct a workshop on Zero Net Energy for newly constructed buildings. Commissioners at the Energy Commission may also attend and participate in the workshop.

**Monday, May 18, 2015**

9:00 a.m.

CALIFORNIA ENERGY COMMISSION  
1516 Ninth Street  
First Floor, Art Rosenfeld Hearing Room  
Sacramento, California  
(Wheelchair Accessible)

Remote Access Available by Computer or Phone via WebEx™  
(Instructions are below)

### Background

The *2013 Integrated Energy Policy Report (2013 IEPR)* (building on the 2007, 2009 and 2011 IEPRs) established state policy regarding the possible adoption of Building Energy Efficiency Standards to require newly constructed residential buildings to be Zero Net Energy (ZNE) by 2020. This policy recognizes the following:

- A ZNE Code Building is one where the net amount of energy produced by on-site renewable energy resources is equal to the value of the energy consumed annually by the building;
- ZNE will be accomplished through reducing the energy use for the building through energy efficiency best practices and then offsetting the remaining energy use through renewable energy sources; and
- The development of proposed requirements for ZNE buildings will be accomplished through the Energy Commission's building energy efficiency code processes.

With these in mind, the *2013 IEPR* established the concept of a Zero Net Energy Code Building and adopted the following definition:

A Zero Net Energy Code Building is one where the net amount of energy produced by on-site renewable energy resources is equal to the value of the energy consumed annually by the building, at the level of a single “project” seeking development entitlements and building code permits, measured using the California Energy Commission’s Time Dependent Valuation (TDV) metric. A Zero Net Energy Code Building meets an energy use intensity value designated in the Building Energy Efficiency Standards by building type and climate zone that reflect best practices for highly efficient buildings.

Since the establishment of the ZNE goals in 2007, the Energy Commission has been working to make each successive update of the Building Energy Efficiency Standards (2010, 2013, 2016, 2019) closer to accomplishing the 2020 goal. The *2013 IEPR* identified specific issue areas that must be addressed in the 2019 update to reach the ZNE goal.

As a practical matter, there is a need to allow for meaningful flexibility as a significant number of buildings may be unable to meet the on-site renewable energy sources component of the ZNE Code Building definition. Recognizing that all buildings require a pathway to compliance, it will be necessary to establish ZNE Code Building requirements with reasonable exceptions to account for building and building site limitations.

The ZNE Code Building definition anticipates the need for “development entitlements” for off-site renewable energy resources, such as community based renewable energy generation, to be a viable option for builders and developers. Such options must be enforceable by the applicable enforcement agency and must enable tracking and matching to the specific buildings for which the energy consumption is being offset.

In addition, achieving success in the 2019 Standards update will require the availability and refinement of electricity and natural gas system information and costs used to update the TDV metric, revisions to “plug load” assumptions, and the effect of ZNE Code Buildings on the operation of the electricity grid.

This workshop is designed to provide a forum for furthering discussion of these matters.

## **Agenda**

This workshop is planned to be a collaborative discussion with presentations from Energy Commission staff in the Efficiency Division’s Building Standards Office and Appliances and Existing Buildings Office. Additionally, presenters from the California Public Utilities Commission, California Air Resources Board, and industry stakeholders are invited to participate. The workshop will cover progress made in the 2016 Standards and expected further work, and stakeholder views related to the *2013 IEPR* issue areas for the 2019 Standards.

## Public Comment

**Oral Comments:** Staff will accept oral comments during the workshop. Public comments may be limited to three minutes per speaker. Any comments will become part of the public record in this proceeding.

**Written Comments:** Written comments should be submitted to the Dockets Unit by **June 1, 2015**. All written comments will become part of the public record of this proceeding.

**For the 2015 IEPR, the Energy Commission is using a new electronic commenting system.** Visit the website at [http://www.energy.ca.gov/2015\\_energypolicy/](http://www.energy.ca.gov/2015_energypolicy/) and click on the **"Submit e-Comment"** link in the "Proceeding Information" box. From the drop down menu, please select the appropriate docket number. For this workshop, please select docket 15-IEPR-05: Energy Efficiency.

This will take you to the page for adding comments to that docket. Please enter your contact information and comment title. Under "subject(s)," select the appropriate IEPR workshop date and "IEPR public comments." You may include comments in the box titled "comment text" or attach a file with your comments. Attached comments must be in a Microsoft® Word (.doc, .docx) or Adobe® Acrobat® (.pdf) formatted file.

The Energy Commission encourages use of its new electronic commenting system, but written comments may also be submitted by e-mailing them to the Dockets Office, or by U.S. Postal Service to:

California Energy Commission  
Dockets Office, MS-4  
Re: Docket No. 15-IEPR-05  
1516 Ninth Street  
Sacramento, CA 95814-5512

If you choose to not use the electronic filing system, please include the appropriate docket number on any e-mailed or written comments. Comments may be e-mailed to [docket@energy.ca.gov](mailto:docket@energy.ca.gov). Please copy the program contact, Farakh Nasim at [Farakh.Nasim@energy.ca.gov](mailto:Farakh.Nasim@energy.ca.gov).

Please note that your electronic, e-mailed, written and oral comments, attachments, and associated contact information (for example, address, phone, and e-mail) become part of the viewable public record. Additionally, this information may become available via Google, Yahoo, and other search engines.

## Public Adviser and Other Commission Contacts

The Energy Commission's Public Adviser's Office provides the public assistance in participating in Energy Commission proceedings. If you want information on how to participate in this forum, please contact the Public Adviser, Alana Mathews, at [PublicAdviser@energy.ca.gov](mailto:PublicAdviser@energy.ca.gov) or (916) 654-4489, or toll free at (800) 822-6228.

If you have a disability and require assistance to participate, please contact Lou Quiroz at [lou.quiroz@energy.ca.gov](mailto:lou.quiroz@energy.ca.gov) or (916) 654-5146 at least five days in advance.

Media inquiries should be sent to the Media and Public Communications Office at [mediaoffice@energy.ca.gov](mailto:mediaoffice@energy.ca.gov) or (916) 654-4989.

If you have questions on the subject matter of this meeting, please contact Farakh Nasim, at (916) 654-4689 or [Farakh.Nasim@energy.ca.gov](mailto:Farakh.Nasim@energy.ca.gov). For general questions regarding the IEPR proceeding, please contact Raquel Kravitz, IEPR project manager, at (916) 651-8836 or by e-mail at [raquel.kravitz@energy.ca.gov](mailto:raquel.kravitz@energy.ca.gov).

The service list for the 2015 IEPR is handled electronically. Notices and documents for this proceeding are posted to the Energy Commission website at: [www.energy.ca.gov/2015\\_energypolicy/](http://www.energy.ca.gov/2015_energypolicy/).

When new information is posted, an e-mail will be sent to those on the energy policy e-mail listserv. We encourage those who are interested in receiving these notices to sign up for the listserv through the website at [www.energy.ca.gov/listservers/index.html](http://www.energy.ca.gov/listservers/index.html). The listserv is titled "energypolicy."

## Remote Attendance

You may participate in this meeting through WebEx, the Energy Commission's online meeting service. Presentations will appear on your computer screen, and you may listen to the audio via your computer or telephone. Please be aware that the meeting may be recorded.

### To join a meeting:

VIA COMPUTER: Go to <https://energy.webex.com> and enter the unique meeting number: **929 525 925**. When prompted, enter your information and the following meeting password: **meeting@9**

The "Join Conference" menu will offer you a choice of audio connections:

1. To call into the meeting: Select "I will call in" and follow the on-screen directions.
2. International Attendees: Click on the "Global call-in number" link.
3. To have WebEx call you: Enter your phone number and click "Call Me."

4. To listen over the computer: If you have a broadband connection, and a headset or a computer microphone and speakers, you may use VoIP (Internet audio) by going to the Audio menu, clicking on "Use Computer Headset," then "Call Using Computer."

VIA TELEPHONE ONLY: (no visual presentation): Call (866) 469-3239 (toll-free in the U.S. and Canada). When prompted, enter the unique meeting number: **929 525 925**. International callers may select their number from <https://energy.webex.com/energy/globalcallin.php>.

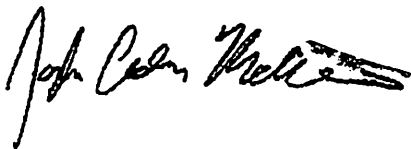
VIA MOBILE ACCESS: Access to WebEx™ meetings is now available from your mobile device. To download an app, go to [www.webex.com/overview/mobile-meetings.html](http://www.webex.com/overview/mobile-meetings.html).

If you have difficulty joining the meeting, please call the WebEx™. Technical Support number at (866) 229-3239.

## Availability of Documents

Documents and presentations for this meeting will be available online at: [www.energy.ca.gov/2015\\_energy\\_policy/](http://www.energy.ca.gov/2015_energy_policy/).

Date: May 8, 2015



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ANDREW McALLISTER, Ph.D.  
Lead Commissioner  
2015 Integrated Energy Policy Report

Mail Lists: [energypolicy](#), [efficiency](#), [existing buildings](#), [financing](#)