

CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET
 SACRAMENTO, CA 95814-5512
 www.energy.ca.gov



Notice of Staff Workshop Roadmap to Identify Future Research for Energy Efficient Natural Gas Use in Buildings

The California Energy Commission's Research and Development Division staff will hold a series of workshops to discuss preliminary priorities for natural gas-related energy efficiency research in buildings. This will result in the development of a Building End Use Energy Efficiency Natural Gas Roadmap that will guide future research funding.

The workshops will provide an overview of the status of existing research based on literature reviews and interviews with industry experts and preliminary recommendations for research priorities to improve natural gas energy efficiency in buildings. The feedback and input received from the workshops will inform the development of the roadmap.

The workshops are scheduled at the following locations and times, and will be wheelchair accessible:

Date and Time	Focus Area	Location
MONDAY, OCTOBER 14, 2013 Beginning at 9:30 a.m.	Commercial Buildings	Southern California Gas Energy Resources Center - Multi-purpose room 9240 Firestone Boulevard Downey, California
TUESDAY, OCTOBER 15, 2013 Beginning at 9:30 a.m.	Residential Buildings	Southern California Gas Energy Resources Center - Multi-purpose room 9240 Firestone Boulevard Downey, California
WEDNESDAY OCTOBER 16, 2013 Beginning at 9:30 a.m.	Commercial Buildings	Pacific Gas & Electric Food Service Technology Center Training Room (Suite #101) 12949 Alcosta Boulevard San Ramon, California
FRIDAY OCTOBER 18, 2013 Beginning at 9:30 a.m.	Residential Buildings	California Energy Commission – Hearing Room B 1516 Ninth Street Sacramento, California

Remote Attendance and Availability of Documents

Internet Webcast – Presentations and audio from the meeting will be broadcast via the internet. Information on how to join is attached to each workshop agenda.

Availability of Documents – The workshop presentation materials and summary of stakeholder proposed initiatives will be posted on the following website:
www.energy.ca.gov/research/notices.

Purpose

The purpose of the workshop is to obtain public input to inform the development of a natural gas roadmap for building energy efficiency research. The goal is to identify the research needed to achieve reductions in natural gas energy usage and greenhouse gas contributions in residential and commercial buildings.

Members of the public will have an opportunity to comment at the workshop. Public feedback should focus on the following:

- Comments on the status of energy efficiency technology development for residential and commercial buildings to reduce natural gas consumption;
- Identification of problems and challenges affecting natural gas energy efficiency for buildings;
- Identification of data and research gaps that are barriers to maximizing energy efficiency technologies;
- Comments and recommendations for priority research needs to maximize energy efficiency; and
- Recommendations for partnership opportunities to gain synergies in research.

Following the workshops, the feedback will be compiled and used to develop a roadmap that will:

- Summarize the status of current research;
- Identify data and research gaps and barriers and challenges;
- Identify and recommend research priority needs and their connection to achieving state policy goals and to overcoming challenges;
- Identify potential cost impacts and schedule for full implementation; and
- Determine potential partnerships with other entities.

In addition to participation at the workshop, written comments can be submitted by 5:00 pm, (Pacific Standard Time) on October 21, 2013. Please submit written comments by email to Jeffrey Doll at jeffrey.doll@energy.ca.gov or Betty Seto at betty.seto@dnvkema.com.

Background

Legislation was enacted in 2000 with Assembly Bill 1002 (Wright, Chapter 932, Statutes of 2000), which required the California Public Utilities Commission to impose a surcharge on all natural gas consumed in California to fund various energy efficiency programs as well as public interest research and development to benefit natural gas ratepayers. Assembly Bill 1002 also required the California Public Utilities Commission to designate an entity to administer the research component of AB 1002.

In 2004, the California Public Utilities Commission issued Decision 04-08-010, which designated the Energy Commission as the administrator for the research funds. The Energy Commission manages these funds through its Public Interest Energy Research Natural Gas Program. In fiscal year 2012-2013, the California Energy Commission administered \$24 million for natural gas research, development, and demonstration projects through the Public Interest Energy Research Natural Gas Program. Each year, the Energy Research and Development Division develops and submits a budget plan to the California Public Utilities Commission to identify the research initiatives to be funded in the succeeding fiscal year.

The results from the natural gas roadmap for building energy efficiency research will identify initiatives that can be included in future budget plans. The roadmap will guide and identify energy efficiency research to provide the greatest benefit to stakeholders and ratepayers. The challenge is determining which areas and technologies require research to overcome technological, economic, or other barriers, and determining the estimated benefits to ratepayers when compared to existing technology. Roadmaps will also identify the status of current technology, research needs, and the technological and economic potential of technologies.

The roadmap will be expert- and stakeholder-driven, based on interviews of subject matter experts and comments from the public workshops. Technical experts are particularly suited to identify the greatest research needs. Currently, there is no comprehensive roadmap that identifies the priorities for research involving natural gas energy efficiency and renewable energy-sourced space heating, space cooling and water heating in the building end use sector for California.

Public Participation

The Energy Commission's Public Adviser's Office provides the public assistance in participating in Energy Commission activities. If you want information on how to participate in this forum, please contact the Public Adviser's Office at (916) 654-4489 or toll free at (800) 822-6228, by FAX at (916) 654-4493, or by e-mail at publicadviser@energy.ca.gov. If you have a disability and require assistance to participate, please contact Lou Quiroz at (916) 654-5146 at least five days in advance.

Please direct all news media inquiries to the Media and Public Communications Office at (916) 654-4989, or by e-mail at mediaoffice@energy.ca.gov.

If you have questions on the technical subject matter of this meeting, please call Jeff Doll at (916) 327-1367, or by e-mail at jeffrey.doll@energy.ca.gov.

Date: September 30, 2013

Mail Lists:

PIER Buildings List Server
Existing Buildings List Server
Research List Server
Natural Gas List Server
Renewable List Server
Efficiency List Server

**California Energy Commission
Staff Workshop
Roadmap to Identify Future Research for
Energy Efficient Natural Gas Use in Buildings**

Date: Monday, October 14, 2013

Location: Southern California Gas Energy Resources Center – Multi-purpose room.
9240 Firestone Boulevard, Downey, CA

Live Meeting Information: <https://www.livemeeting.com/cc/kema1/join>

Meeting ID: 53JTQH

Entry Code: RCK+}8f

Conference Line: 1 (877) 715-1531

Passcode: 570 672 7842 #

**AGENDA
Focus Area: Commercial Buildings**

Time	Topic
9:30 AM	Introductions <ul style="list-style-type: none"> • Overview • Purpose of Workshop
9:45 AM	Background: Natural Gas Usage in the Commercial Sector <ul style="list-style-type: none"> • Characterization by End Use
10:00 AM	Overview of Initial Priority Research Areas Identified To Date: <ul style="list-style-type: none"> • Space Heating/Cooling* • Water Heating* • Cooking • Other
10:45 AM	Public Comment on Overview
12:00 PM	Lunch Break
1:00 PM	Description of Breakout Sessions <ul style="list-style-type: none"> • Objectives • Key questions
1:15 PM	Breakout Sessions <ul style="list-style-type: none"> • Space Heating/Cooling* • Water Heating* • Cooking
2:15 PM	Report Back (20 minutes each)
3:15 PM	Final Public Comments
4:30 PM	Closing and Next Steps
5:00 PM	Adjourn

* Includes renewable energy-sourced space heating, space cooling and water heating.

Remote Attendance for Downey Workshop (October 14, 2013)

Internet Webcast – Presentations and audio from the meeting will be broadcast via the internet.

You can participate in this meeting through Microsoft Office Live Meeting. Presentations will appear on your computer screen, and you listen to the audio via your telephone. Please be aware that the meeting's audio and on-screen activity may be recorded.

Computer Log-on:

Click on this link

<https://www.livemeeting.com/cc/kema1/join?id=53JTQH&role=attend&pw=RCK%2B%7D8f>

Teleconference:

Use the information below to connect

Toll-free: +1 (877) 715-1531

Toll: +1 (706) 679-1947

Participant code: 570 672 7842 #

FIRST-TIME USERS

To save time before the meeting, check your system to make sure it is ready to use Microsoft Office Live Meeting.

<http://go.microsoft.com/fwlink/?LinkId=90703>

TROUBLESHOOTING

Unable to join the meeting? Follow these steps:

1. Copy this address and paste it into your web browser:

<https://www.livemeeting.com/cc/kema1/join>

2. Copy and paste the required information:

Meeting ID: 53JTQH

Entry Code: RCK+}8f

Location: <https://www.livemeeting.com/cc/kema1>

If you still cannot enter the meeting, contact support:

<http://www.webconferencesupport.com>

**California Energy Commission
Staff Workshop
Roadmap to Identify Future Research for
Energy Efficient Natural Gas Use in Buildings**

Date: Tuesday, October 15, 2013

Location: Southern California Gas Energy Resources Center – Multi-purpose room.
9240 Firestone Boulevard, Downey, CA

Live Meeting Information: <https://www.livemeeting.com/cc/kema1/join>

Meeting ID: SFB8T4

Entry Code: RCK+}8f

Conference Line: 1 (877) 715-1531

Passcode: 570 672 7842 #

**AGENDA
Focus Area: Residential Buildings**

Time	Topic
9:30 AM	Introductions <ul style="list-style-type: none"> • Overview • Purpose of Workshop
9:45 AM	Background: Natural Gas Usage in the Residential Sector <ul style="list-style-type: none"> • Characterization by End Use
10:00 AM	Overview of Initial Priority Research Areas Identified To Date <ul style="list-style-type: none"> • Space Heating • Water Heating • Other
10:45 AM	Public Comment on Overview
12:00 PM	Lunch Break
1:00 PM	Description of Breakout Sessions <ul style="list-style-type: none"> • Objectives • Key questions
1:15 PM	Breakout Sessions <ul style="list-style-type: none"> • Space Heating • Water Heating • Other
2:15 PM	Report Back (20 minutes each)
3:15 PM	Final Public Comments
4:30 PM	Closing and Next Steps
5:00 PM	Adjourn

Remote Attendance for Downey Workshop (October 15, 2013)

Internet Webcast – Presentations and audio from the meeting will be broadcast via the internet.

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Computer Log-on:

Click on this link

<https://www.livemeeting.com/cc/kema1/join?id=53JTQH&role=attend&pw=RCK%2B%7D8f>

Teleconference:

Use the information below to connect

Toll-free: +1 (877) 715-1531

Toll: +1 (706) 679-1947

Participant code: 570 672 7842 #

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**California Energy Commission
Staff Workshop
Roadmap to Identify Future Research for
Energy Efficient Natural Gas Use in Buildings**

Date: Wednesday October 16, 2013

Location: Pacific Gas & Electric Food Service Technology Center – Training Room
12949 Alcosta Boulevard (Suite #101), San Ramon, CA

Live Meeting Information: <https://www.livemeeting.com/cc/kema1/join>

Meeting ID: M3NS3F

Entry Code: RCK+}8f

Conference Line: 1 (877) 715-1531

Passcode: 570 672 7842 #

AGENDA

Focus Area: Commercial Buildings

Time	Topic
9:30 AM	Introductions <ul style="list-style-type: none"> • Overview • Purpose of Workshop
9:45 AM	Background: Natural Gas Usage in the Commercial Sector <ul style="list-style-type: none"> • Characterization by End Use
10:00 AM	Overview of Initial Priority Research Areas Identified To Date: <ul style="list-style-type: none"> • Space Heating/Cooling* • Water Heating* • Cooking • Other
10:45 AM	Public Comment on Overview
12:00 PM	Lunch Break
1:00 PM	Description of Breakout Sessions <ul style="list-style-type: none"> • Objectives • Key questions
1:15 PM	Breakout Sessions <ul style="list-style-type: none"> • Space Heating/Cooling* • Water Heating* • Cooking
2:15 PM	Report Back (20 minutes each)
3:15 PM	Final Public Comments
4:30 PM	Closing and Next Steps
5:00 PM	Adjourn

* Includes renewable energy-sourced space heating, space cooling and water heating.

Remote Attendance for San Ramon Workshop (October 16, 2013)

Internet Webcast – Presentations and audio from the meeting will be broadcast via the internet.

You can participate in this meeting through Microsoft Office Live Meeting. Presentations will appear on your computer screen, and you listen to the audio via your telephone. Please be aware that the meeting's audio and on-screen activity may be recorded.

Computer Log-on:

Click on this link

<https://www.livemeeting.com/cc/kema1/join?id=53JTQH&role=attend&pw=RCK%2B%7D8f>

Teleconference:

Use the information below to connect

Toll-free: +1 (877) 715-1531

Toll: +1 (706) 679-1947

Participant code: 570 672 7842 #

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If you still cannot enter the meeting, contact support:

<http://www.webconferencesupport.com>

**California Energy Commission
Staff Workshop
Roadmap to Identify Future Research for
Energy Efficient Natural Gas Use in Buildings**

Date: Friday, October 18, 2013

Location: California Energy Commission (Hearing Room B).
1516 Ninth Street. Sacramento, California

WebEx Information:

<https://energy.webex.com/energy/j.php?ED=238695232&UID=506014112&PW=NM2UzMDM3NTg2&RT=MiM0>

Meeting Number: 925 358 212

Password: meeting@930

Conference Line: 1-866-469-3239

**AGENDA
Focus Area: Residential Buildings**

Time	Topic
9:30 AM	Introductions <ul style="list-style-type: none">• Overview• Purpose of Workshop
9:45 AM	Background: Natural Gas Usage in the Residential Sector <ul style="list-style-type: none">• Characterization by End Use
10:00 AM	Overview of Initial Priority Research Areas Identified To Date <ul style="list-style-type: none">• Space Heating• Water Heating• Other
10:45 AM	Public Comment on Overview
12:00 PM	Lunch Break
1:00 PM	Description of Breakout Sessions <ul style="list-style-type: none">• Objectives• Key questions
1:15 PM	Breakout Sessions <ul style="list-style-type: none">• Space Heating• Water Heating• Other
2:15 PM	Report Back (20 minutes each)
3:15 PM	Final Public Comments
4:30 PM	Closing and Next Steps
5:00 PM	Adjourn

Remote Attendance for Sacramento Workshop (October 18, 2013)

Internet Webcast – Presentations and audio from the meeting will be broadcast via the internet.

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

Computer Log-on with Telephone Audio:

Topic: Staff Workshop Roadmap to Identify Future Research for Energy Efficient Natural Gas Use in Buildings

Date: Friday, October 18, 2013

Time: 9:30 am, Pacific Daylight Time (San Francisco, GMT-07:00)

Meeting Number: 925 358 212

Password: [meeting@930](#)

To join the meeting online(Now from mobile devices!)

1. Go to

<https://energy.webex.com/energy/j.php?ED=238695232&UID=506014112&PW=Nm2UzMDM3NTg2&RT=MIM0>

2. If requested, enter your name and email address.

3. If a password is required, enter the meeting password: [meeting@930](#)

4. Click "Join".

5. If the meeting includes a teleconference, follow the instructions that appear on your screen.

To join the audio conference only

To receive a call back, provide your phone number when you join the meeting, or call the number below and enter the access code.

Call-in toll-free number (US/Canada): 1-866-469-3239

Call-in toll number (US/Canada): 1-650-429-3300

Global call-in numbers:

<https://energy.webex.com/energy/globalcallin.php?serviceType=MC&ED=238695232&tollFree=1>

Toll-free dialing restrictions: http://www.webex.com/pdf/tollfree_restrictions.pdf

Access code: 925 358 212