

VIRTUAL OFFICE HOURS

LOCAL
NATURAL GAS
EMISSION
REDUCTION
OPTIONS

APRIL 23, 2020 | 10AM-NOON



Energy
Efficiency
Coordinator

WELCOME

LOCAL NATURAL GAS EMISSION REDUCTION OPTIONS

Angie Hacker

Statewide Energy Efficiency Best Practices Coordinator

<https://www.linkedin.com/in/angiehacker/>

ahacker@lgc.org

Please introduce yourself in the chat box:

- Name
- Organization
- Location
- Interest in Natural Gas Emission Reductions
- Logistics

TODAY'S OFFICE HOURS

LOCAL NATURAL GAS EMISSION REDUCTION OPTIONS

Purpose: To help local government energy and climate practitioners quickly learn about emerging issues by exchanging knowledge and experiences with each other and learning from topical experts.

■ Agenda (10am - noon)

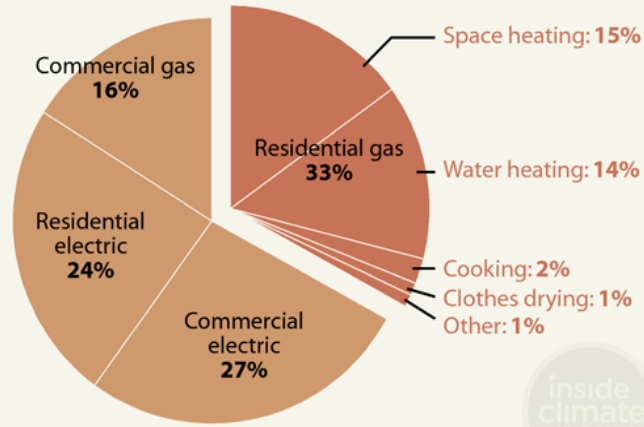
- Topic Overview
- Panelist Introductions
 - Amy Rider, Building Decarbonization Coalition
 - Jennifer Pezda, SoCalGas
 - Jamie Cutlip, SMUD
 - Shelly Jiang, Sacramento Metropolitan Air Quality Management District
 - Marna Schwartz, City of Berkeley
 - Calyn Hart, ICLEI-Local Governments for Sustainability USA
 - Danuta Drozdowicz, Building Standards Office, California Energy Commission
- Q&A
- Resources and Next Steps

■ Poll

Energy Use in California Buildings

Electricity and natural gas each account for about half of the total energy used in California's residential and commercial buildings. In residential buildings most of the natural gas goes to heating and hot water, with only a small fraction used for cooking, clothes drying and other uses.

ENERGY USE IN CALIFORNIA BUILDINGS 2016



SOURCE: California Energy Commission, 2018 Integrated Energy Policy Report Update

PAUL HORN / InsideClimate News

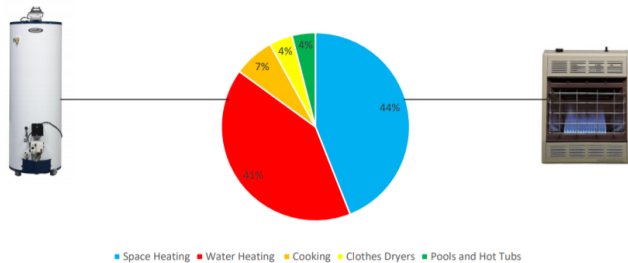
TOPIC OVERVIEW

- In California, residential and commercial buildings are one of the largest sources of carbon emissions for cities and counties
- Natural gas accounts for about half of building energy use
- Local governments are considering options for reducing natural gas emissions in the climate action plans, building codes, thresholds of significance, and general plans to meet State and local climate, decarbonization or zero emission building goals.



The Problem: Emissions from Existing Buildings

Shares of Natural Gas Consumption by End Use, Residential



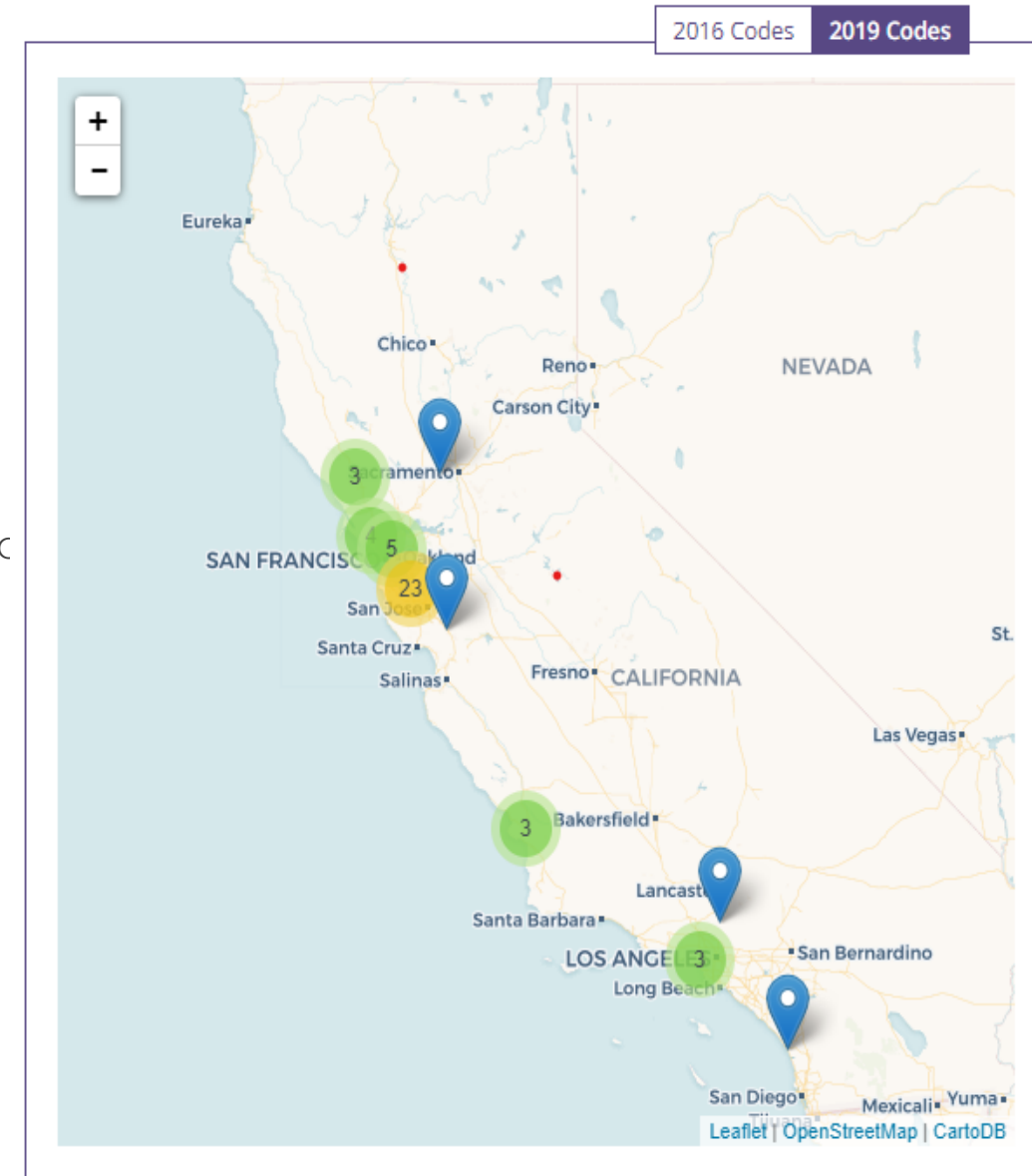
- 70% of direct emissions come from residential sector
- Most emissions (85%) come from space and water heating

*"Electrification of space and water heating using highly efficient technologies is **a key strategy** to reduce or eliminate GHG emissions from buildings." (2018 IEPR)*

TOPIC OVERVIEW

Local options

- Collaborate with gas provider on emission reduction efforts
 - Renewable natural gas
 - Energy efficiency
- Develop codes and standards
 - Reach code: changes to a city or county's building code, must be approved by the CEC
 - Natural gas ban vs electric-preferred vs mixed fuel
 - Building type (new or existing; residential, municipal or non-residential)
 - System types (whole building vs specific systems)
 - Municipal code/zoning
 - Threshold of significance
- Provide or promote incentives for replacing existing building systems
 - Energy efficiency
 - CPUC - \$45 million for electric heat pump water heaters through 2025 (SGIP)
 - CPUC - BUILD and TECH programs
 - Marin Natural Gas Appliance Rebate Program
- Obtain technical assistance
 - Calculating emissions (ICLEI)
 - Crafting codes (CA C&S Reach Code program)



TOPIC OVERVIEW

Local Considerations:

- Emissions
- Cost
- Economic impact
- Health/safety
- Resiliency
- Technical capacity
- Legal issues



Title 24, Parts 6 and 11
Local Energy Efficiency Ordinances

2019 Cost-effectiveness Study: Low-Rise Residential New Construction

Prepared for:
Kelly Cunningham
Codes and Standards Program
Pacific Gas and Electric Company

Prepared by:
Frontier Energy, Inc.
Misti Bruceri & Associates, LLC

Last Modified: August 01, 2019

OUR PANELISTS

Amy Rider

Principal Consultant, Reach Code Coordinator
Building Decarbonization Coalition
arider@archamy.com

Jamie Cutlip

Regional & Local Government Affairs, Office of
the General Counsel
Sacramento Municipal Utility District
Jamie.Cutlip@smud.org

Marna Schwartz

Sustainability Coordinator
City of Berkeley
MSchwartz@cityofberkeley.info

Danuta Drozdowicz

Building Standards Office
California Energy Commission
danuta.drozdowicz@energy.ca.gov

Jennifer Pezda

Environmental Policy & Planning Advisor
Southern California Gas Company
JPezda@socalgas.com

Shelley Jiang

Air Quality Planner/Analyst
Sacramento Metropolitan Air Quality
Management District
sjiang@airquality.org

Calyn Hart

Program Officer, Statewide Energy
Efficiency Collaborative
ICLEI-Local Governments for
Sustainability USA
calyn.hart@iclei.org

Q&A

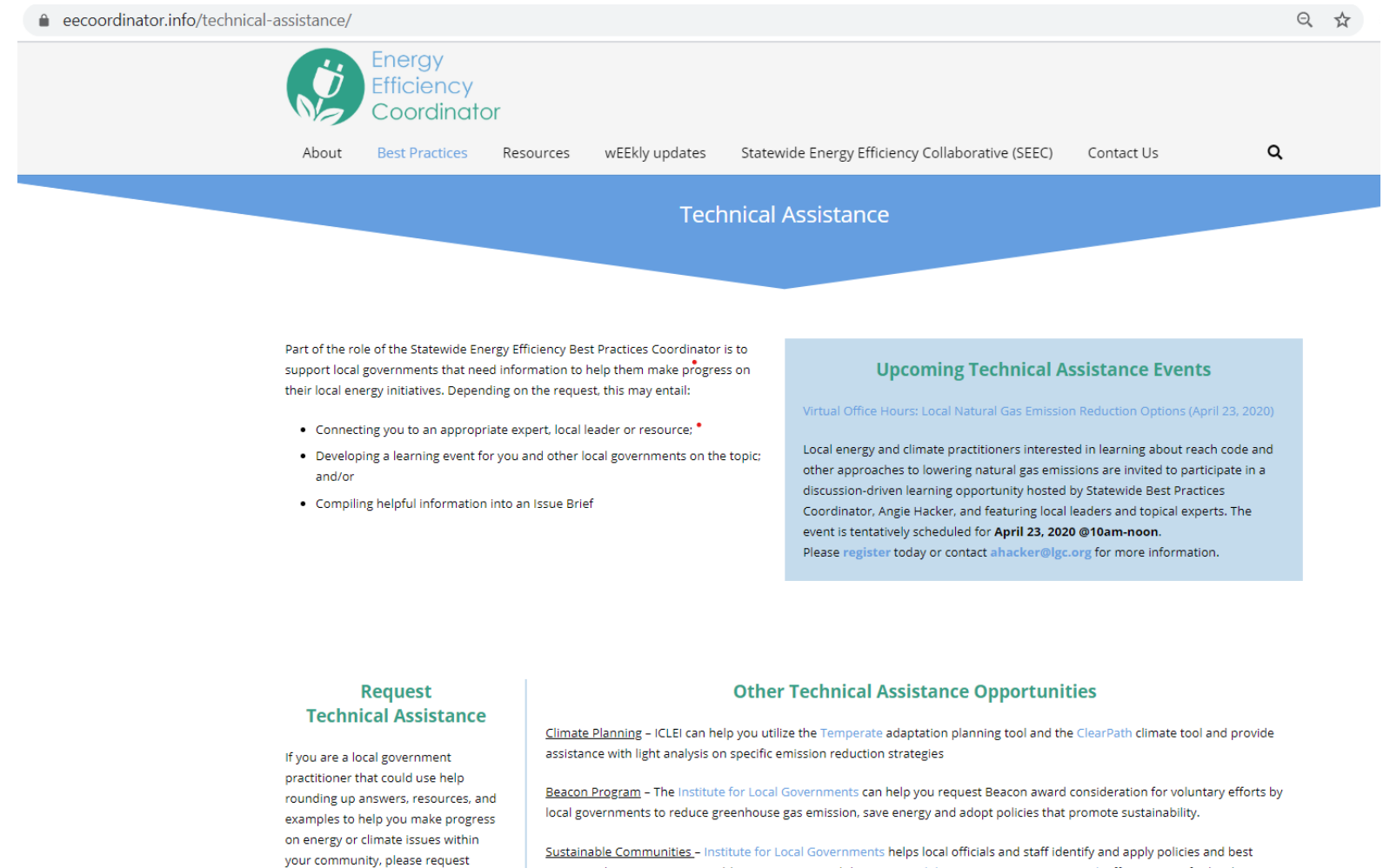
- Send questions through the chat box to Angie Hacker (Host), I may call on you to share your question outloud
- Please keep yourself muted until prompted to share
- Please keep questions and comments brief and respectful

KEY RESOURCES

- Local Energy Codes
 - 2019 Ordinances and Cost Effectiveness Studies: <https://localenergycodes.com/content/2019-local-energy-ordinances/>
 - Local Ordinance Map: <https://localenergycodes.com/content/local-ordinance-map>
- CPUC
 - Building decarb fact sheet: <file:///C:/Users/angie/Downloads/Building%20Decarbonization%20Fact%20vs%20Fiction.pdf>
 - Renewable Natural Gas: https://www.cpuc.ca.gov/renewable_natural_gas/
 - CPUC BUILD and TECH programs: <https://www.cpuc.ca.gov/General.aspx?id=6442462146>
 - CPUC Self Generation Incentive Program (SGIP) including heat pump water heaters: <https://www.cpuc.ca.gov/General.aspx?id=5935>
- CEC
 - 2018 Integrated Energy Policy Report: <https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report>
- CA Reach Codes
 - Monthly Calls - mistib@comcast.net
- Building Decarbonization Coalition
 - Monthly calls
 - Road Map Report: file:///C:/Users/angie/Downloads/bdc_roadmap_2_12_19.pdf
- Other Local Examples
 - Sierra Club Summary of City Reach Codes: <https://www.sierraclub.org/articles/2020/03/californias-cities-lead-way-gas-free-future>
 - Marin rebates: <https://www.marincounty.org/depts/cd/divisions/sustainability/energy-programs/electrify>
 - San Luis Obispo Ordinance Staff Report <http://opengov.slocity.org/WebLink/DocView.aspx?id=96415&dbid=0&repo=CityClerk&cr=1>

NEXT STEPS

- The slides and event recording will be distributed
- You'll be invited to join a listserv on this topic to continue the discussion over email
- An issue brief will be completed on this topic
- Submit other technical assistance Requests



The screenshot shows the website eecoordinator.info/technical-assistance/. The header includes the Energy Efficiency Coordinator logo and navigation links: About, Best Practices, Resources, wEEKly updates, Statewide Energy Efficiency Collaborative (SEEC), and Contact Us. A blue banner below the header reads "Technical Assistance".

Part of the role of the Statewide Energy Efficiency Best Practices Coordinator is to support local governments that need information to help them make progress on their local energy initiatives. Depending on the request, this may entail:

- Connecting you to an appropriate expert, local leader or resource;
- Developing a learning event for you and other local governments on the topic; and/or
- Compiling helpful information into an Issue Brief

Request Technical Assistance

If you are a local government practitioner that could use help rounding up answers, resources, and examples to help you make progress on energy or climate issues within your community, please request

Other Technical Assistance Opportunities

Climate Planning – ICLEI can help you utilize the [Temperate](#) adaptation planning tool and the [ClearPath](#) climate tool and provide assistance with light analysis on specific emission reduction strategies

Beacon Program – The [Institute for Local Governments](#) can help you request Beacon award consideration for voluntary efforts by local governments to reduce greenhouse gas emission, save energy and adopt policies that promote sustainability.

Sustainable Communities – [Institute for Local Governments](#) helps local officials and staff identify and apply policies and best

Upcoming Technical Assistance Events

Virtual Office Hours: Local Natural Gas Emission Reduction Options (April 23, 2020)

Local energy and climate practitioners interested in learning about reach code and other approaches to lowering natural gas emissions are invited to participate in a discussion-driven learning opportunity hosted by Statewide Best Practices Coordinator, Angie Hacker, and featuring local leaders and topical experts. The event is tentatively scheduled for **April 23, 2020 @10am-noon**. Please [register](#) today or contact ahacker@lgec.org for more information.



THANK YOU

Angie Hacker

Statewide Energy Efficiency Best
Practices Coordinator
ahacker@lgc.org



Energy
Efficiency
Coordinator