

<b>DOCKETED</b>	
<b>Docket Number:</b>	21-IEPR-06
<b>Project Title:</b>	Building Decarbonization and Energy Efficiency
<b>TN #:</b>	239514
<b>Document Title:</b>	Notice of IEPR Commissioner Workshop on Building Decarbonization Quality Installation of Heating and Air Conditioning Equipment
<b>Description:</b>	The workshop will start at 9:30 a.m. on Friday, September 10, 2021. The following is the workshop information: Link for Workshop: Quality Installation of Heating and Air Conditioning Equipment <a href="https://energy.zoom.us/j/95960599376?pwd=UkN5RGt4aU1JRm9BVnhsUjczK1VJUT09">https://energy.zoom.us/j/95960599376?pwd=UkN5RGt4aU1JRm9BVnhsUjczK1VJUT09</a> Webinar ID: 959 6059 9376 Webinar Passcode: IEPR2021
<b>Filer:</b>	Raquel Kravitz
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
<b>Submission Date:</b>	8/30/2021 10:27:05 AM
<b>Docketed Date:</b>	8/30/2021

## CALIFORNIA ENERGY COMMISSION

715 P Street

Sacramento, California 95814

[energy.ca.gov](http://energy.ca.gov)

CEC-70 (Revised 2/2021)

*IN THE MATTER OF:**2021 Integrated Energy Policy Report  
(2021 IEPR)*

Docket No. 21-IEPR-06

NOTICE OF REMOTE-ACCESS WORKSHOP

RE: Building Decarbonization: Quality Installation  
of Heating and Air Conditioning Equipment

## Notice of IEPR Commissioner Workshop on Building Decarbonization: Quality Installation of Heating and Air Conditioning Equipment

**Friday, September 10, 2021  
9:30 am**

The California Energy Commission (CEC) will host a workshop to discuss actions to improve the quality of installation of heating and air conditioning (HVAC) equipment and its role in achieving the state's building decarbonization goals. Commissioner J. Andrew McAllister is CEC's Lead Commissioner for the *2021 Integrated Energy Policy Report (2021 IEPR)* and Commissioner McAllister is also the lead for the analysis of building decarbonization and energy efficiency for the *2021 IEPR* proceeding.

A quorum of commissioners may participate, but no votes will be taken.

The workshop will be held remotely, consistent with Executive Order N-08-21 to continue to help California respond to, recover from, and mitigate the impacts of the COVID-19 pandemic. The public can participate in the workshop consistent with the direction in this executive order.

The workshop will start at 9:30 a.m. on Friday, September 10, 2021. The following is the workshop information:

Link for Workshop: [Quality Installation of Heating and Air Conditioning Equipment](https://energy.zoom.us/j/95960599376?pwd=UkN5RGt4aU1JRm9BVnhsUjczK1VJUT09)

<https://energy.zoom.us/j/95960599376?pwd=UkN5RGt4aU1JRm9BVnhsUjczK1VJUT09>

Webinar ID: **959 6059 9376**

Webinar Passcode: **IEPR2021**

## Remote Attendance

Remote access is available by both internet or call-in options. Participants may join by clicking on the links above or by logging in via Zoom™ at <https://zoom.us/>, entering the unique Webinar ID and Passcode.

To participate by telephone, dial toll-free at (888) 475-4499 or at (669) 219-2599. When prompted, enter the Webinar ID and Passcode.

If you experience difficulties joining, contact Zoom at (888) 799-9666 ext. 2, or the Public Advisor's Office at [publicadvisor@energy.ca.gov](mailto:publicadvisor@energy.ca.gov), or by phone at (916) 654-4489, or toll-free at (800) 822-6228.

## Agenda

This workshop will offer perspectives from equipment distributors and contractors, local permitting offices and others on steps that can be taken to improve permitting compliance rates and ensure quality installation of heating and air conditioning equipment in buildings to aid in achieving California's building decarbonization goals.

A detailed meeting schedule will be posted prior to the workshop at the [2021 IEPR Workshops, Notices and Documents](https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2021-integratedenergy-policy-report/2021-iepr) webpage found at <https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2021-integratedenergy-policy-report/2021-iepr>.

## Background

The recently-adopted [California Building Decarbonization Assessment](https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=19-DECARB-01) report (https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=19-DECARB-01) found that wide-scale installation of highly-efficient electric heat pump water heaters and space heaters is a key greenhouse gas emission reduction strategy. This would greatly increase the number of heat pumps that supply critical heating and air conditioning needed to protect health and safety as the climate becomes hotter and less predictable. Quality installation has long been understood to be essential to achieving the high levels of energy efficiency and performance from building equipment. Senate Bill 350 (De León, Chapter 547, Statutes of 2015) directed the CEC to take actions to ensure that retrofits of buildings meet high-quality performance standards and reduce energy savings lost or foregone due to poor-quality workmanship. Shortly after, Senate Bill 1414 (Wolk, Chapter 678, Statutes of 2016) called upon the CEC to increase quality installation by establishing a plan to increase compliance with the CEC's standards in the installation of HVAC systems and heat pumps.

Since 2005, the state's Building Energy Efficiency Standards have required new and replacement installations of residential HVAC systems to meet quality installation standards. The quality installation requirements include onsite testing of the performance of key characteristics of HVAC systems important to ensuring energy efficiency. HVAC contractors are required as a condition of their licensure by the Contractors State License Board to meet all building code requirements and comply with local building permit requirements. However, residential HVAC equipment often is installed without permits and often by unlicensed contractors. This has caused a lack of adequate attention to quality installation and has impeded the state's ability to affect change through high-quality installation standards.

## Public Comment

**Oral comments** will be accepted at the end of the workshop. Comments may be limited to three minutes or less per speaker and one person per organization. Depending on the number of members of the public seeking to make a comment, the facilitator may adjust the total time allotted for public comment and the time allotted for each comment.

If participating via Zoom's online platform, use the "raise hand" feature to alert the administrator that you would like to make a comment after the lead commissioner opens the floor for public comment.

If participating by telephone, press \*9 to "raise your hand" and \*6 to mute/unmute. A workshop administrator will call on you by the last three digits of your phone number and you should unmute your phone before introducing yourself and sharing your comment.

Additionally, the Public Advisor may, upon the request of public participants who may be absent during the workshop when a matter of interest to them is being considered, neutrally and publicly relate those participants' points to the CEC on behalf of members of the public. If you are interested in this service, please email concise comments, specifying your main points, before the start of the workshop to the Public Advisor's Office at [publicadvisor@energy.ca.gov](mailto:publicadvisor@energy.ca.gov). Comments submitted after the workshop starts will be filed in the workshop docket.

**Written comments** must be submitted to the Docket Unit by 5:00 p.m. on **September 24, 2021**.

The CEC encourages use of its electronic commenting system. Visit the [e-commenting page at \(https://efiling.energy.ca.gov/Ecomment.aspx?docketnumber=21-IEPR-06\)](https://efiling.energy.ca.gov/Ecomment.aspx?docketnumber=21-IEPR-06) which links to the comment page for this docket. Enter your contact information and a comment title describing the subject of your comment(s). Comments may be included in the "Comment Text" box or attached as a downloadable, searchable document consistent with title 20 of the California Code of Regulations, section 1208.1. The maximum file size allowed is 10 MB.

Written comments may be submitted by email. Include docket number **21-IEPR-06** and Quality Installation in the subject line and email to [docket@energy.ca.gov](mailto:docket@energy.ca.gov).

If preferred, a paper copy may be sent to:

California Energy Commission  
Docket Unit, MS-4  
Docket No. 21-IEPR-06  
715 P Street  
Sacramento, California  
95814-5512

Written and oral comments, attachments, and associated contact information (including address, phone number, and email address) will become part of the public record of this proceeding with access available via any internet search engine.

## Contacts

The CEC's Public Advisor's Office provides the public with assistance in participating in CEC proceedings. For information on participation or to request interpreting services or reasonable accommodations, please contact the Public Advisor's Office at [publicadvisor@energy.ca.gov](mailto:publicadvisor@energy.ca.gov), by phone at (916) 654-4489, or toll free at (800) 822-6228. Requests for interpreting services and reasonable accommodations should be made at least five days in advance. The CEC will work diligently to accommodate all requests.

**Direct media inquiries** to [mediaoffice@energy.ca.gov](mailto:mediaoffice@energy.ca.gov) or (916) 654-4989.

**Direct technical subject inquiries** to Bill Pennington at [bill.pennington@energy.ca.gov](mailto:bill.pennington@energy.ca.gov) or (916) 698-0604.

**Direct general inquiries** regarding the IEPR proceeding to Raquel Kravitz, IEPR Project Manager, at [raquel.kravitz@energy.ca.gov](mailto:raquel.kravitz@energy.ca.gov) or (916) 907-4284.

## Availability of Documents

Documents and presentations for this meeting will be available on the CEC's webpage titled [2021 IEPR Workshops, Notices and Documents](https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2021-integrated-energy-policy-report/2021-iepr) at <https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2021-integrated-energy-policy-report/2021-iepr>, or on the CEC's docket page [21-IEPR-06](https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=21-IEPR-06) at <https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=21-IEPR-06>.

When new information is posted, an email will be sent to the list serves identified below. To receive notices about the IEPR, subscribe at [Integrated Energy Policy Report - IEPR | California Energy Commission](https://energy.ca.gov/data-reports/integrated-energy-policy-report) page, <https://energy.ca.gov/data-reports/integrated-energy-policy-report>. Manage existing list servers or sign up for others at [CEC List Servers](https://ww2.energy.ca.gov/listservers/index_cms.html), [https://ww2.energy.ca.gov/listservers/index\\_cms.html](https://ww2.energy.ca.gov/listservers/index_cms.html).

Dated: Monday, August 30, 2021, at Sacramento, California

List Servers: decarbonization, efficiency, existing\_buildings, energypolicy, dcag