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Infrastructure Investment and Jobs Act Resilient and Efficient Codes Implementation Webinar

October 14, 2022

Daniel Wong
Standards Compliance Branch, Efficiency Division



Agenda

- **Background**
 - Infrastructure Investment and Jobs Act section 40511
 - Resilient and Efficient Codes Implementation
- **CEC Proposal Funding Concepts**
- **Partnerships**
- **Questions and Feedback**
- **Next Steps**



Source: California Energy Commission



Background

- **Investment Infrastructure and Jobs Act (IIJA)**
 - Section 40511
- **Objective:**
 - Enable cost-effective implementation of updated energy codes
 - Establish competitive solicitation



Source: California Energy Commission



Resilient and Efficient Codes Implementation (RECI)

- **Funding Opportunity Announcement (FOA)**
 - \$225 million total
 - \$45 million per fiscal years FY22 – FY26
 - FOA expected October 2022
- **RECI FOA areas of interest**
 - Partnerships
 - State and local code adoption
 - Workforce development
 - Implementation and compliance
 - Innovative approaches
 - Equity, energy, environmental justice

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Building Energy Codes Program

STATUS ▼ IMPACTS ▼ TECHNICAL ASSISTANCE ▼

Resilient and Efficient Codes Implementation

The [Infrastructure Investment and Jobs Act](#) provides a historic opportunity to advance the efficiency and resilience of building energy codes in states and local jurisdictions throughout the United States. As outlined in Section 40511 of the Act, \$225M in funding has been appropriated to “eligible entities to enable sustained cost-effective implementation of updated building energy codes” through a competitive grant process over five years (FY22-FY26). Awardees eligible for this funding must include a relevant state agency, and priority will be given to teams that include strategic partnerships, such as a local building code agency, codes and standards developers, associations of builders and design and construction professionals, and many others. Projects must also be tied to an updated building energy code, which includes any amendment or code update resulting in increased energy efficiency as compared to the previously adopted code. The act outlines priority criteria for the funding, including an established need by an eligible entity, the long-term sustainability of measures and savings, the ability to address equity, energy, and environmental justice (EEJ) and resilience priorities, and others.

Notice of Intent

Released: July 21, 2022

Based on feedback from a formal Request for Information and public workshop, DOE has issued a [Notice of Intent \(NOI\)](#) to publish a funding opportunity supporting the implementation of resilient and efficient energy codes, in accordance with Section 40511 of the Infrastructure Law. EERE anticipates that the *Building Energy Codes: Resilient and Efficient Codes Implementation Funding Opportunity Announcement (FOA)* will include several key areas of interest:

1. State and Local Code Adoption
2. Workforce Development
3. Implementation and Compliance
4. Innovative Approaches
5. Equity, Energy and Environmental Justice
6. Partnerships

The full [NOI](#) includes a brief description of each area of interest, along with additional details outlining EERE's intent for the FOA.

Source: <https://www.energycodes.gov/RECI>



More Information

- **Infrastructure Investment and Jobs Act:**
<https://www.congress.gov/bill/117th-congress/house-bill/3684/text>
- **Resilient and Efficient Codes Implementation:**
<https://www.energycodes.gov/RECI>
- **Notice of Intent to Issue FOA:**
<https://eere-exchange.energy.gov/Default.aspx#Foald4a995855-d245-40c3-8032-26eb0e446c75>

U.S. DEPARTMENT OF ENERGY Office of ENERGY EFFICIENCY & RENEWABLE ENERGY

Notice of Intent No. DE-FOA-0002812

Notice of Intent to Issue
Funding Opportunity Announcement No. DE-FOA-0002813

The Office of Energy Efficiency and Renewable Energy (EERE) intends to issue, on behalf of the Building Technologies Office (BTO), a Funding Opportunity Announcement (FOA) entitled "Building Energy Codes: Resilient and Efficient Codes Implementation (RECI)". EERE intends to issue this FOA in accordance with Section 40511 of the [Infrastructure Investment and Jobs Act \(BIL\)](#),¹ also commonly known as the Bipartisan Infrastructure Law (BIL), which directs the Secretary of Energy to establish a competitive program enabling sustained cost-effective implementation of updated building energy codes. This FOA will be focused on efforts relating to the implementation of more efficient building energy codes that reduce greenhouse gas (GHG) emissions, as well as encouraging more resilient buildings, including grid-flexibility and stability, storage, durability, and better protection against extreme weather events. This FOA supports the Biden-Harris Administration's [National Initiative to Advance Building Codes](#), launched in June 2022 by the National Climate Task Force to accelerate adoption of modern building codes to improve resiliency, create good-paying jobs, and lower energy bills.

Building energy codes establish minimum levels of energy efficiency for certain residential and commercial buildings. Model energy codes, such as the International Energy Conservation Code (IECC) and ANSI/ASHRAE/IES Standard 90.1,² are developed and updated through national consensus processes. States and local governments ultimately implement energy codes, which is handled through various adoption, compliance, and enforcement processes and can vary widely across the United States. The implementation of building energy codes also depends on a significant number of stakeholders, including state and local government agencies, building and safety departments, builders, contractors and design professionals, as well as a number of affected community interests. Successful implementation of the latest building codes and standards is critical to ensuring their benefits, including utility bill savings, are realized in American homes and businesses.

Building energy codes have long been utilized by states and local governments to regulate energy efficiency and conservation in the built environment while delivering utility bill savings. Increasingly, states and local governments are also relying on building codes, including energy

¹ Infrastructure Investment and Jobs Act, Public Law 117-58 (November 15, 2021). <https://www.congress.gov/bills/117/congress/house-bill/3684>. This FOA uses the more common name "Bipartisan Infrastructure Law".

² The IECC is developed by the International Code Council (ICC). Standard 90.1 is an American National Standards Institute (ANSI) standard developed jointly by the American Society of Heating, Refrigerating and Air-conditioning Engineers (ASHRAE) and the Illuminating Engineering Society (IES).

This is a Notice of Intent (NOI) only. EERE may issue a FOA as described herein, may issue a FOA that is significantly different than the FOA described herein, or EERE may not issue a FOA at all.

Source: United States Department of Energy



CEC Proposal Funding Concepts

- **Focus on supporting local AHJs**
 - Partner with local AHJs
 - Support compliance and enforcement of Energy Code
 - Digitize and streamline compliance processes
 - Develop and pilot innovative online digital software tools
- **Proposal concept ideas:**
 - Innovative digital compliance software tools
 - Nonresidential and residential software
 - Next generation performance modeling software
 - Implementation of online permitting software

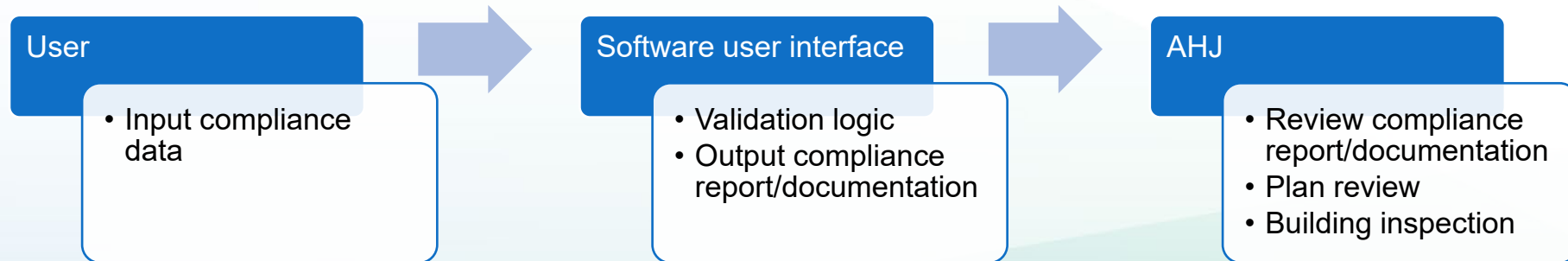


Source: California Energy Commission



Innovative Digital Compliance Tools - Nonresidential

- **Nonresidential online digital compliance software**
 - Central integrated online software platform
 - User interface for compliance data collection and documentation
 - Support AHJ plan review and inspections
 - Simplified compliance reporting
 - Partner with local AHJs/groups to develop and pilot software





Innovative Digital Compliance Tools - Residential

- **Residential HVAC alteration online permitting software**
 - Central integrated online permit platform
 - Streamline and simplify the process for HVAC alteration submittals
 - Standardize and automate permitting process
 - Standalone platform or integrated into existing software
 - Partner with local AHJs/groups to develop and pilot software



Source: California Energy Commission



Next Generation Performance Modeling Software

- **Next generation performance modeling software**
 - Develop modeling software/rulesets based on ASHRAE Standards 229P and 140.
 - Standardized rulesets can be implemented by any modeling software
 - Increases flexibility and accessibility to modeling software
 - Partner with local AHJs/groups to develop and pilot software



Implementation of Online Permitting Software

- **Grant program for implementing online permitting software**
 - Support adoption of online permitting software
 - Digitize and streamline processes, increasing convenience to AHJs and permit applicants
 - Eligible to cities, counties, or a city/county partnership
 - Work with stakeholders to establish program details and criteria



Source: California Energy Commission



Partnerships

- **Eligible entities for the RECI FOA**
 - State agencies
 - Partnerships between state agency and other entities
- **The FOA will prioritize applications from partnerships**
- **CEC Contact:** Daniel Wong
daniel.wong@energy.ca.gov



Source: California Energy Commission



Questions and Feedback

- **If participating via the Zoom:**
 - Use the “raise hand” feature so we can announce your name and unmute you
- **Telephone:**
 - Press *9 to “raise your hand” and *6 to mute or unmute
- **Or enter your question in the Q & A**
- **Limit comment to 3 minutes per commenter or organization**





How to Submit Written Comments

- **We strongly encourage submitting written comments via e-file.**
Comments on today's webinar can be submitted to:
<https://efiling.energy.ca.gov/EComment/EComment.aspx?docketnumber=22-MISC-02>
- **Comments can also be submitted physically or by e-mail, here:**
California Energy Commission
Dockets Office, MS-4
Re: Docket No. 22-MISC-02
715 P Street
Sacramento, CA 95814-5504
Docket@energy.ca.gov
- **Notices, presentation, and webinar recording will be available at Docket 22-MISC-02:** <https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=22-MISC-02>



Next Steps

- **October 2022:**
 - Submit public comments by 5:00 PM on October 24, 2022
 - Local AHJs interested in partnering with the CEC, contact daniel.wong@energy.ca.gov
 - CEC review feedback and further refine concepts/ideas
 - RECI FOA is issued by the US DOE
- **November – December 2022 (estimate):**
 - Develop proposal concept paper
 - Develop detailed scope and FOA application
 - Submit FOA application



Thank You!