

First Quarter 2022 Nevada Energy Code Collaborative

Virtual Meeting
January 20, 2022

Nevada Energy Code Collaborative meeting

January 20, 2022

1:00 PM ~ 2:30 PM (PDT)

Join Zoom Meeting

<https://zoom.us/j/93193029089?pwd=c1RWL0w5Q0hGWVB1S085cExZQ1oxQT09>

Teleconference call-in number: (346) 248 7799

Meeting ID: 931 9302 9089

Passcode: 083040

1. Welcome, introductions, review agenda (5 minutes)

2. Solar App+ (~25 minutes)

Jeff Cook, National Renewal Energy Laboratory, Program Manager Solar App+

- System improves customer's experience and reduce costs with a fast permitting process. Solar APP+ reduces install times, reduces project cancellations, and expands access to renewable energy. The permitting software is designed to help building departments and installers with solar permitting and installation. Web-based PV-permitting tool for residential systems at no-cost to AHJs.

3. Nevada Circuit Rider (~10 minutes)

Robin Yochum, GOE, Shaunna Mozingo, MCG

- The circuit rider program is operational – how do we get the word out for this support to the building industry in Nevada?

4. Federal Infrastructure Bill Update (~15 minutes)

Robin Yochum, GOE

- Robin to provide an update on the infrastructure bill opportunities for the building industry, workforce development, training, and more.

5. 2024 IECC subcommittee participation (~10 minutes)

Group Discussion

- The 2024 IECC subcommittees have started in January. There are opportunities for you to participate and include your input into the design of the IECC.

6. DOE Residential field study update (~5 minutes)

Jim Meyers, SWEEP

- Update on the field study and when the training phase will start in Nevada.

7. Other updates (~10 minutes)

All participants

- Information that may be of interest to this group, e.g. events, adoption updates, industry information, trainings and so-forth.

8. Wrap Up & Next Steps (~5 minutes)

- Closing comments
- Next meeting date (3 months appx April 2022)

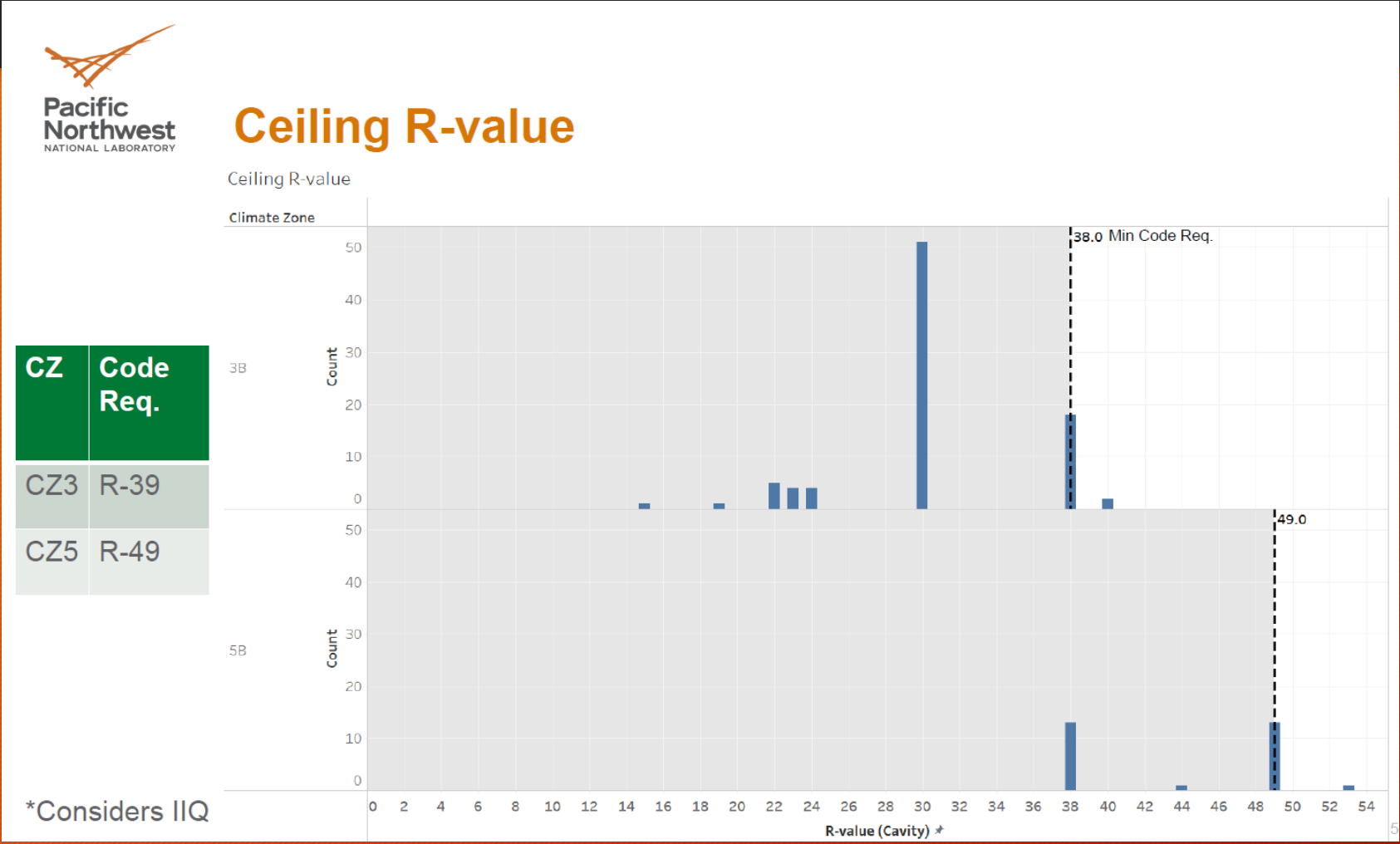
Agenda

- Welcome
- Solar App+
 - A system that reduces time requirements for solar/renewable energy systems
 - Beneficial to building departments, contractors, trades
- Nevada Circuit Rider Program

Agenda

- Update on Federal Infrastructure Bill
 - Opportunities for the building industry in Nevada
 - Workforce support
 - Training
- 2024 IECC Subcommittees
 - Participation in development of next energy code
 - All virtual
 - Public participation wanted/welcomed
- DOE Residential Energy Code Field Study

Preliminary field study information



Preliminary field study information

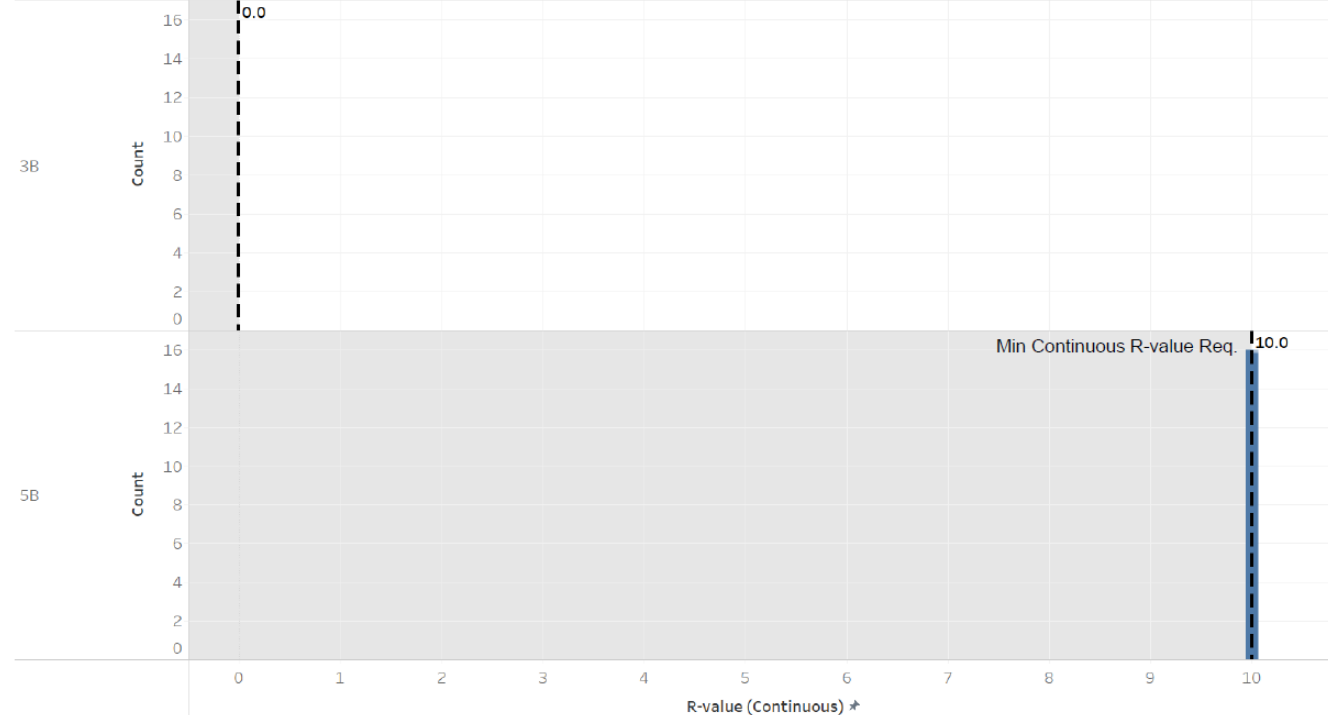


Slab Edge R-value

CZ	Code Req.
CZ3	NR
CZ5	10, 2ft

Slab Edge R-value

Climate Zone



Preliminary field study information

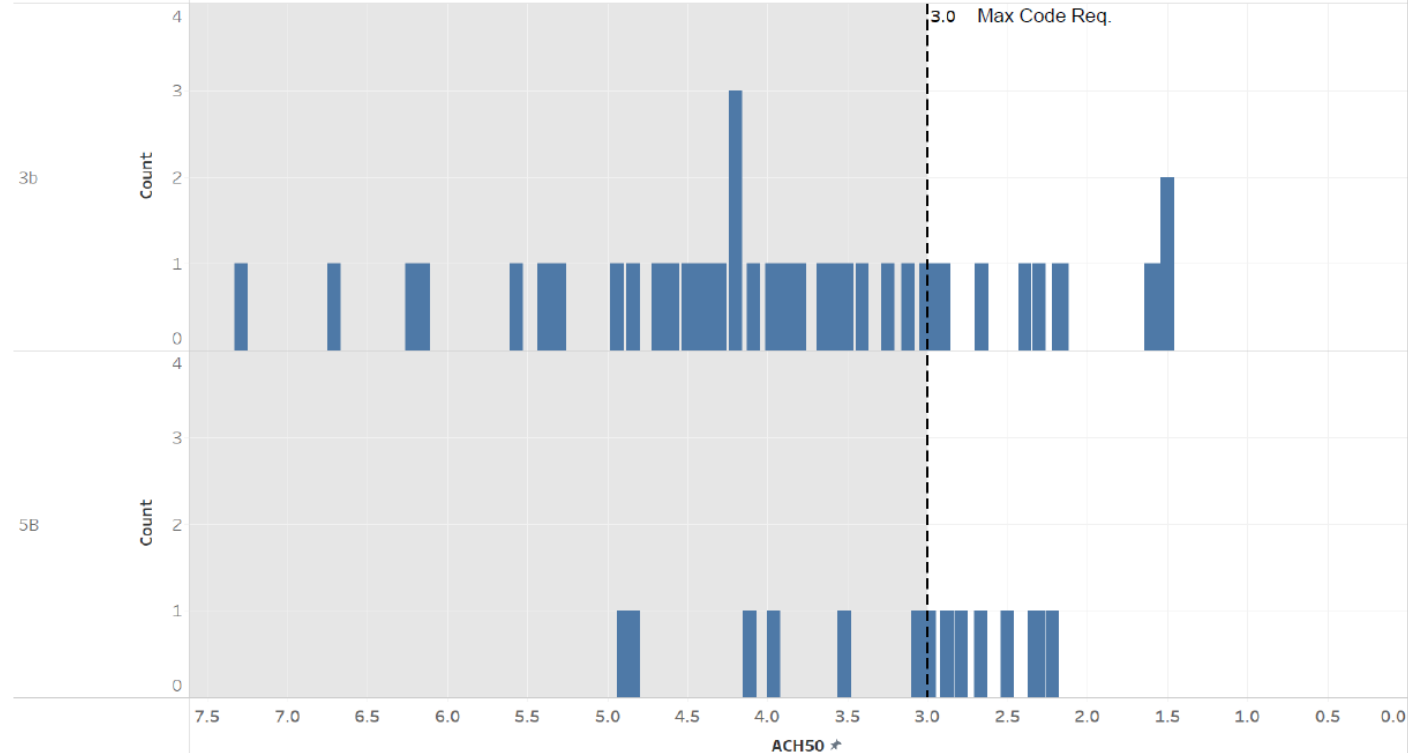


Envelope Tightness (ACH50)

CZ	Code Req.
CZ3	3 ACH50
CZ5	3 ACH50

Envelope Tightness

Climate Zone



Preliminary field study information



Window U-factor

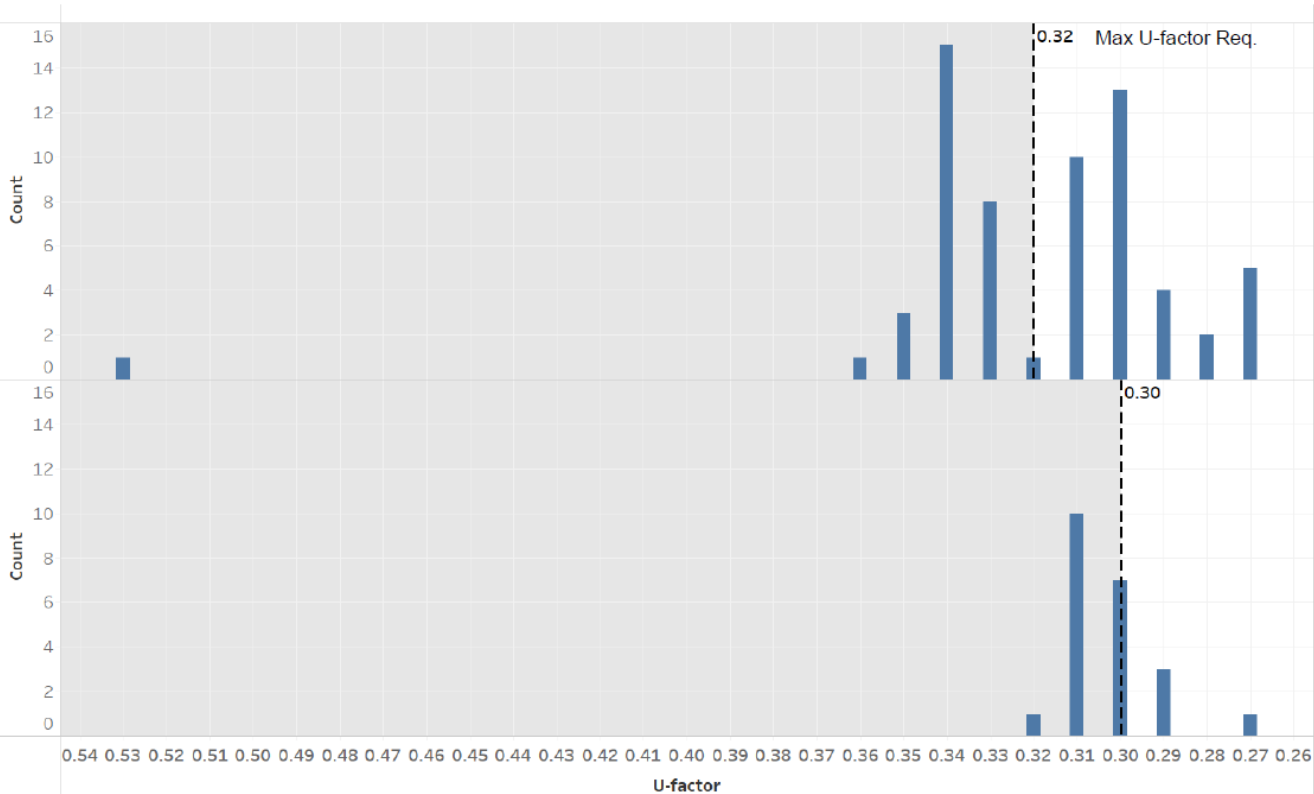
Window U-factor

Climate Zone

CZ	Code Req.
CZ3	U-0.32
CZ5	U-0.30

3b

5B



Preliminary field study information

- Next
- NASEO to hold stakeholdervirtual meeting sharing the findings
- Selection of training contractor
- Training provided based on findings
 - Input can be provided by stakeholders

Other Updates

- **Highlights from the 2021 ICC BoD Winter Meeting :** Code cycle with two Committee Action Hearings The board approved a standing motion from the Board Committee on the Long-Term Code Development Process to revise the code development cycle to incorporate two committee action hearings for each code group. This change expands the current process from two independent one-year cycles to a single continuous three-year cycle. This change will not take effect until the code development cycle beginning in 2024 for the development of the 2027 International Codes. Please be on the lookout for a future Code Council communication that will include more details.
- March 27 - April 6, 2022: Group B Committee Action Hearings, Rochester Riverside Convention Center Rochester, NY
- September 14 - 21, 2022: ICC's Annual Conference and Group B Public Comment Hearings, Kentucky International Convention Center Louisville
- Digital Codes Premium: codes.iccsafe.org

Other Updates



Governor's Office of Energy

Infrastructure Investment & Jobs Act

Funding Opportunities

January 20, 2022

Robin Yochum, Energy Program Manager

Infrastructure Investment & Jobs Act

- Grid infrastructure & resiliency - \$5 million for Nevada
- Energy efficiency & building Infrastructure - \$3 million for Nevada
- Fuels & technology infrastructure - \$300 million
- Federal - Aid highways - \$2.5 billion

Governor's Office of Energy



GRID INFRASTRUCTURE & RESILIENCY

**Upgrading our
Electric Grid &
Ensuring Reliability
and Resiliency**

**Electric grid
reliability and
resilience research,
development, and
demonstration.
Energy Improvement
in Rural or Remote
areas**

ENERGY EFFICIENCY & BUILDING INFRASTRUCTURE

**Cost Effective Codes
implementation for
efficiency &
resilience**

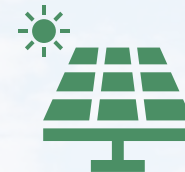
**Energy efficiency
conservation block
grant (EECBG)**

**Energy Auditor
training program**

**Energy efficiency
revolving loan fund**

FUELS & TECHNOLOGY INFRASTRUCTURE

**Carbon Utilization
Program**



FEDERAL-AID HIGHWAYS

**Charging & Fueling
Infrastructure**



Governor's Office of Energy



UPGRADING OUR ELECTRIC GRID & ENSURING RELIABILITY & RESILIENCY

- **Eligible Entities:**

- State; Indian tribe; Unit of Local Government; PUC

- **Potential Funding Available (Competitive):**

- \$5 billion

- **Purpose:**

- Demonstrate innovative approaches to transmission, storage, and distribution infrastructure to harden & enhance resilience & reliability
- Demonstrate new approaches to enhance regional grid resilience, implemented through states by public & rural electric coops on a cost-shared basis



Governor's Office of Energy

ELECTRIC GRID RELIABILITY & RESILIENCE

- **Eligible Entities:**
 - State; Indian tribe; Unit of Local Government; PUC
- **Potential Funding Available (Competitive):**
 - \$1 billion
- **Purpose:**
 - Cost-effectiveness of energy generation, transmission, or distribution systems
 - Siting or upgrading transmission and distribution lines
 - Reducing greenhouse gas emissions from energy generations
 - Providing or modernizing electric generation facilities
 - Developing microgrids
 - Increasing energy efficiency



Governor's Office of Energy

Cost effective codes implementation for efficiency & resilience

- **Eligible Entities:**

- State building code agency; state energy office or tribal energy office or a partnership between one of these entities and - Local building code agencies; codes and standards developer; association of builders and design and construction professionals; local & utility energy efficiency programs; consumer energy efficiency and environmental advocates

- **Potential Funding Available (Competitive):**

- \$225 million

- **Purpose:**

- to enable sustained cost-effective implementation of updated building energy codes

- **Resource**

- **ICC:** [Click here](#) for a fact sheet on key initiatives that support activities of potential interest to Code Council members, including funding for the development, adoption, and implementation of energy conserving and hazard resistant building codes.

Governor's Office of Energy



ENERGY EFFICIENCY CONSERVATION BLOCK GRANT

- **Eligible Entities:**

- State Energy Offices, Local Governments

- **Potential Funding:**

- \$550 million total
 - 68% to cities and counties (**Resource** - NLC - [Click here](#) for an article on the EECBG funds & how cities can utilize the funds.)
 - Local Governments with a population of at least 35k are eligible to apply for funding directly through DOE
 - 28% to states
 - States are required to pass through at least 60% of funding received to cities and counties that do not receive funds directly from DOE

- **Purpose:**

- financing energy efficiency, renewable energy, and zero-emission transportation.
- loan programs and performance contracting programs
- programs that allow rebates, grants, or other incentives for the purchase and installation of energy efficiency, renewable energy, and zero-emission transportation measures



Governor's Office of Energy

Energy Auditor Training

- **Eligible Entities:**
 - State Energy Offices
- **Potential Funding Available (Competitive):**
 - Up to \$2 million for Nevada
- **Purpose:**
 - Establishment of an Energy Auditor Training Program. Funds must be used to pay for the training and certification.
- **Certificates:**
 - ASHRAE Building Energy Assessment Professional
 - ASHRAE Certified Auditor
 - BPI Home Energy Professional Energy Auditor
 - RESNET Home Energy Rater



Governor's Office of Energy

ENERGY EFFICIENCY REVOLVING LOAN FUND

- **Eligible Entities:**

- State Energy Offices

- **Potential Funding Available:**

- \$250 million total - 40% through formula grants to states
- Max \$15 million per state

- **Purpose:**

- Loans for
 - Commercial Energy Audits & upgrades and retrofits
 - Residential Energy Audits & upgrades and retrofits



Governor's Office of Energy

Carbon Utilization Program

- **Eligible Entities:**
 - States, local governments, PUC
- **Potential Funding Available (Competitive):**
 - \$300 million
- **Purpose:**
 - Grants can be used to procure commercial or industrial products that use or are derived from anthropogenic CO₂ and demonstrate significant net reductions in GHG emissions compared to incumbent technologies, processes, and products.

Governor's Office of Energy



CHARGING & FUELING INFRASTRUCTURE

- **Eligible Entities:**

- State; metropolitan planning organization, unit of local government, special purpose district or public with a transportation function, Indian tribe

- **Potential Funding Available (Competitive):**

- \$2.5 billion

- **Purpose:**

- Establish grant program to strategically deploy publicly accessible ev charging infrastructure



Governor's Office of Energy

Contact us:

Robin Yochum

Energy Program Manager

ryochum@energy.nv.gov | 775-434-3087

energy.nv.gov

twitter.com/NevGOE

Governor's Office of Energy





International Code Council
500 New Jersey Avenue, NW
Sixth Floor
Washington, DC 20001
t: 888.ICC.SAFE (422.7233)
t: 202.370.1800
f: 202.783.2348
www.iccsafe.org

Key Programs in Infrastructure Legislation for Code Officials and the Construction Industry

On November 15, 2021 the President signed into law the [Infrastructure Investment and Jobs Act \(IIJA\)](#), bipartisan legislation which will make available \$1.2 trillion in funding for infrastructure programs across the energy, water, transportation, and building sectors. In the coming months, the U.S. departments and agencies charged with implementing the Act will put forward guidance defining terms, establishing program priorities, and determining allocations of formula funding. The following are a subset of initiatives that support activities of potential interest to Code Council members.

Energy Code Implementation

The IIJA provides an unprecedented \$225 million, \$45 million per year, for a new program at the Department of Energy (DOE) to award competitive grants for “sustained cost-effective implementation of updated energy codes” ([Sec. 40511 of the IIJA](#)). The Code Council strongly supported this dedicated investment in energy code implementation and worked to ensure these resources can support complementary water conservation and community resilience efforts.

Applicants are either state agencies or partnerships between state agencies and any number of the following: local building code agencies, codes and standards developers, builder/architectural associations, utilities, and/or consumer, energy efficiency, and environmental advocates.

The IIJA lays out a series of criteria/priorities for DOE to consider in making competitive awards. Partnership applications will be prioritized. Additional criteria include prospective savings and other benefits, applicant capacity, and need.

Eligible activities for grant funding include training and materials, measuring implementation and compliance outcomes, and addressing implementation needs in rural, suburban, and urban areas. Training and materials may also cover zero energy buildings, code economic and environmental impacts, resilience, health, safety, and water conservation.

Having a state partner (e.g., building code agency, State energy office, or Tribal energy office) is required for an application as is an “updated building energy code.” DOE will define that phrase, but in doing so must recognize local amendments. The Department is also prohibited from defining that phrase to include only the latest energy code edition. The Code Council will submit comments to DOE encouraging a broad interpretation of the phrase “updated building energy code” so that jurisdictions with recent energy code updates that preceded the IIJA’s enactment are not precluded for applying for implementation assistance. For additional information on engaging with DOE on its development of this program, please contact us at advocacy@iccsafe.org.

Other DOE Programs Supporting Energy Code Development and Implementation

The new \$225 million energy code implementation program described above provides funding exclusively for energy code implementation (energy code development and adoption are not covered), which is available on a competitive basis. The IIJA also provides significant new resources through two additional programs, the Energy Efficiency and Conservation Block Grant Program (EECBG) and State Energy Program (SEP), which provide formula funding to jurisdictions for a range of activities, including energy code development, adoption, and implementation, along with energy efficiency and renewable energy upgrades, financing, energy audits, and EV charging station installations:

- The IIJA provides \$550M for the EECBG program ([sec. 40552](#)). DOE is expected to allocate this funding consistent with its [prior formula](#), which provided 68% of program funds to localities based on population, 28% to states, and 2% to tribal governments, with 2% retained for competitive grants. Eligible uses under EECBG are listed [here](#).
- \$500M is provided for the SEP program to be distributed under the program's [existing formula allocation](#) ([sec. 40109](#)). The Act waives local match requirements. SEP funding uses are listed [here](#).

An additional DOE initiative would award \$10 million in grants to post-secondary institutions to establish “building training and assessment centers” ([sec. 40512](#)). The assessment centers are charged with identifying and promoting opportunities to optimize energy and environmental performance in buildings; training the construction industry and code officials on energy efficient design and operation; and advancing research into alternative and distributed energy.

Hazard-Resistant Code Adoption and Implementation

On top of the program's annual allocation, the IIJA provides an additional \$1 billion for FEMA's Building Resilient Infrastructure and Communities (BRIC) program, \$200 million per year over five years. BRIC funds hazard-resistant code adoption and implementation activities with a 25% local cost-share, while mitigation projects submitted for a pot of competitive BRIC funding are made more competitive based on the statewide adoption and implementation of recent editions of the International Building Code and International Residential Code as well as Building Code Effectiveness Grading Schedule (BCEGS) ratings between 1 and 5. Fact sheets and webinars on leveraging BRIC for code professionals are available [here](#).

FEMA is also provided with \$3.5B (\$700M per year) for the Flood Mitigation Assistance (FMA) program, which provides grants to governments for flood mitigation projects while the U.S. Department of Agriculture is provided \$500 million to establish a Community Wildfire Defense Grant Program for at-risk communities. Funds may be used to develop or revise (\$250,000 max/10% non-federal match) and implement (\$10 million max/25% match) community wildfire protection plans, which address hazard mitigation and structure protection ([sec. 40803](#)). Grant applicants must have adopted standards equal to or more stringent than ICC or NFPA's roof construction standards.

Water Quality and Reuse

The IIJA provides \$510 million over five years for grants to states and public water systems serving underserved communities to address contaminants in drinking water through EPA's existing [Small, Underserved, and Disadvantaged Communities Grant Program](#) ([sec. 50104](#)).

It further establishes an interagency working group to coordinate and prioritize efforts to promote water reuse ([sec. 50218](#)), elevating federal attention to EPA's Water Reuse Action Plan. The Code Council is currently working with EPA and other partners on the Agency's interest in incorporating water quality and onsite reuse into premise plumbing codes. Other sections of the IIJA provide \$125 million for a pilot program for alternative water source projects ([sec. 50203](#)) and \$450 million for the creation of a competitive grant program for planning, design, and construction of large-scale, regional/multistate water recycling and reuse projects within Reclamation States ([sec. 40905](#)).

—

Please contact us at advocacy@iccsafe.org or through your [Government Relations Staff Liaison](#) for additional information and collaboration opportunities regarding the IIJA's implementation. Click [here](#) to sign-up for updates as the IIJA's programs are rolled out.

IECC Subcommittee Meeting Master Schedule																									
	Monday				Tuesday				Wednesday				Thursday				Friday						Legend	1st monthly meeting	2nd monthly meeting
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
9 am Eastern																									
10 am Eastern																									
11 am Eastern																									
11:30 am Eastern																									
12 pm Eastern																									
12:30 Eastern																									
1 pm Eastern																									
1:30 pm Eastern																									
2 pm Eastern																									
2:30 pm Eastern																									
3 pm Eastern																									
3:30 pm Eastern																									
4 pm Eastern																									
4:30 pm Eastern																									
5 pm Eastern																									
6 pm Eastern																									

Schedule as of 11/23/21

All meetings are subject to change by the subcommittee chair. Please check subcommittee agenda for meeting dates.

Consensus Committees dates to be determined. Please check agendas or icc events page for dates and meeting links

Res Envelope	first and third Wednesday of the month from 11am-1pm Eastern
Res HVACR	first and third Monday of the month from 11am-1pm Eastern
Res Elec	second and fourth Monday of the month from 2pm-4pm Eastern
Res Modeling	second and fourth Wednesday of the month from 11am-1pm Eastern
Res Existing Bldg	second and fourth Tuesday of the month from 2pm-4pm Eastern
Res Consistency	first and third Tuesday of the month from 2pm-4pm Eastern
Com Envelope	first and third Thursday of the month from 11am-1pm Eastern
Com HVACR	second and fourth Thursday of the month from 11:30am-1:30pm Eastern
Com Elec	second and fourth Monday of the month from 11am-1pm Eastern
Com Modeling	first and third Monday of the month from 2pm-4pm Eastern