

## **Nevada Energy Code Collaborative meeting**

**October 6, 2021**

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

**Join Zoom Meeting**

**<https://zoom.us/j/93499778245?pwd=L0h5Ky9wM2YrMzJiZXBXTDQ4SW5lQT09>**

**Teleconference call-in number: (669) 900-6833**

**Meeting ID: 934 9977 8245**

**Passcode: 627136**

- 1. Welcome, introductions, review agenda** (5 minutes)
- 2. Energy Code Track in 2023** (~15 minutes)  
*Les Lazareck, Home Energy Connections*
  - The 2022 EduCode is a few months away and all sessions are set. We have the opportunity to support a full week energy code/standards track for 2023 EduCode.
- 3. 2024 IECC Proposal Submittal** (~10 min)  
*Robin Yochum, GOE, Vice Chair 2024 IECC Residential Committee*
  - Code proposals are due by end of day October 12.
- 4. EV Energy Use** (~15 minutes)  
*Group Discussion*
  - How does energy consumption of EVs in buildings impact energy models? Utility demands? Design constraints? Codes and standards? Renewables?
- 5. Energy Code Circuit Rider** (~15 minutes)



## Our Partners



## A MESSAGE FROM EDUCODE DIRECTOR ALAN ELLIS

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# EV Energy Use



## Integrating Electric Vehicle Charging Infrastructure into Commercial Buildings and Mixed-Use Communities: Design, Modeling, and Control Optimization Opportunities

Preprint

Shanti Pless, Amy Allen, Lissa Myers, David Goldwasser, Andrew Meintz, Ben Polly, and Stephen Frank

National Renewable Energy Laboratory

Presented at the 2020 ACEEE Summer Study on Energy Efficiency in Buildings  
August 17-21, 2020

NREL is a national laboratory of the U.S. Department of Energy  
Office of Energy Efficiency & Renewable Energy  
Operated by the Alliance for Sustainable Energy, LLC  
This report is available at no cost from the National Renewable Energy  
Laboratory (NREL) at [www.nrel.gov/publications](http://www.nrel.gov/publications).  
Contract No. DE-AC36-08G028308

Conference Paper  
NREL/CP-550-77438  
September 2020

## Building Energy Models and EV Charging Loads

The U.S. Department of Energy (DOE) Zero Energy Building and Campuses Common Definition, as well as the U.S. Green Building Council's LEED Zero Building certification program, provide specific guidance for how to treat EV charging loads in the zero energy building accounting (DOE 2015):

*Zero Energy Building (ZEB) energy accounting would include energy used for heating, cooling, ventilation, domestic hot water (DHW), indoor and outdoor lighting, plug loads, process energy, and transportation within the building. Vehicle charging energy for transportation inside the building would be included in the energy accounting. On-site renewable energy may be exported through transmission means other than the electricity grid **such as charging of electric vehicles used outside the building.***

<https://www.nrel.gov/docs/fy20osti/77438.pdf>



# EV Energy Use

- For a building or district that provides electricity to charge EVs used for transportation to and from the district, this load, if separately metered, is considered an export option rather than an additional load to offset with renewable energy. However, the interaction with the local electrical distribution system as well as the impacts on building's peak demand or time-of-use rate costs also need to be considered. As such, there is increasing interest in grid-interactive efficient buildings and the role that building demand flexibility can play in providing value to building owners while also providing benefits to the grid, such as enhanced resilience, deferring capital expenditures, and supporting the balance of renewable energy generation supply (DOE 2020).



# 2018 IECC

## SECTION C407 TOTAL BUILDING PERFORMANCE

**C407.1 Scope.** This section establishes criteria for compliance using total building performance. The following systems and loads shall be included in determining the total building performance: heating systems, cooling systems, service water heating, fan systems, lighting power, receptacle loads and process loads.

**Exception:** Energy used to recharge or refuel vehicles that are used for on-road and off-site transportation purposes.

**C407.2 Mandatory requirements.** Compliance with this section requires compliance with Sections C402.5, C403.2, C403.3 through C403.3.2, C403.4 through C403.4.2.3

**R406.3 Energy Rating Index.** The Energy Rating Index (ERI) shall be determined in accordance with RESNET/ICC 301 except for buildings covered by the *International Residential Code*, the ERI Reference Design Ventilation rate shall be in accordance with Equation 4-1.

Ventilation rate, CFM =  $(0.01 \times \text{total square foot area of house}) + [7.5 \times (\text{number of bedrooms} + 1)]$

(Equation 4-1)

Energy used to recharge or refuel a vehicle used for transportation on roads that are not on the building site shall not be included in the *ERI reference design* or the *rated design*.



**5. Energy Code Circuit Rider (~15 minutes)**

*Shaunna Mozingo, MCG, Jim Meyers, SWEEP*

- What it is, it's coming to Nevada, how it will be useful for building officials, builders, Architects, Raters

**6. Federal Infrastructure Bill (~15 minutes)**

*Robin Yochum, GOE*

- The infrastructure bill has funding opportunities for energy codes and standards, workforce development, training, climate initiatives and much more.

**7. DOE Residential field study update (~5 min)**

*NASEO (TBA)*

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

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

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





# Nevada Circuit Rider

2021 QUARTERLY NEVADA ENERGY CODE COLLABORATIVE MEETING



# What is a Circuit Rider?

- ▶ Energy code circuit riders are direct experts that meet with targeted groups of market actors to address specific code compliance and enforcement needs. (Note – prior to the pandemic these programs provided extensive in-field support.)
- ▶ Started in the Northwest
- ▶ Support across state
- ▶ Audience focused support, tailored technical assistance to unique concerns
- ▶ Support building departments, builders, designers, trades



# Teaching approach

- ▶ Traditionally offered in locations
- ▶ Today – online offerings
- ▶ Typically slides/PowerPoint presentations
- ▶ Usually covers the entirety of the code
  - ▶ Or updates/changes from the previous code
- ▶ High-level
- ▶ Information limitations




# Teaching approach

- ▶ One-on-one
- ▶ One-on-few
- ▶ Detailed training/support
- ▶ Ongoing outreach to 'instructor'
- ▶ Comprehensive approach



# Circuit Rider




## IDAHO ENERGY CODE COLLABORATIVE

**About**  
ENERGY CODE COLLABORATIVE  
IDAHO ENERGY CODE CIRCUIT RIDER

The Idaho Energy Code Circuit Rider program is dedicated to educating citizens and stakeholders on the practical value of energy codes.

Dave Freelove, Idaho's current Energy Code Circuit Rider, is a key resource for Idaho energy code questions, code interpretations, and enforcement strategies. He assists local jurisdictions, permitting departments, building officials, and design and construction professionals by providing energy code assistance through:

- Technical support via email and telephone
- On-site education, training, and technical assistance for Idaho code jurisdictions and other industry professionals, and
- Consistent code interpretations, installations, and enforcement techniques.



All services are offered free of charge.

For energy code questions, assistance, or to request training, Mr. Freelove can be contacted by email at [energy@idabo.org](mailto:energy@idabo.org) or by phone at 208-880-7589. Questions may also be directed to the IDABO office at 208-321-9182 or through [tottens@amsidaho.com](mailto:tottens@amsidaho.com).



# Circuit Rider

## ► Florida observations

2014 Circuit Rider Pilot Locations



2018 Circuit Rider Locations Reached





# Circuit Rider

## ► Florida observations

Florida Counties with Circuit Rider Trainings since 2015





# Next Steps - Circuit Rider

- ▶ Email to be set up
- ▶ Outreach plan to building industry across state
- ▶ Communication tools
  - ▶ What is best for Nevada



Questions?



# 2024 IECC Proposal Submittal

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<https://vimeo.com/manage/videos/606706558>





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cdpACCESS™ is the International Code Council's new cloud-based system for the code development process (cdp). Log in with your My ICC username and password to collaborate, review, submit and vote (if eligible) on code change proposals and public comments.

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### Collaborate

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2021-2022 ICC Code Development Cycle

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The Consolidated Monograph Updates to the 2021 Group A code changes, including the 4/2/21 updates, is now available. [Click here](#) for the Updates.  
Posted on: Apr 8, 2021 10:26 EDT

2021 Group A Proposed Changes

The 2021 Group A proposed changes are posted. [Click here](#) for the Group A website page for Group A cycle document postings.  
Posted on: Mar 1, 2021 18:52 EST

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Proponent

Subject Matter

Referenced Standards Review

376 Proposals

Sort byAgenda Number (A-Z)

ID	Agenda Number	Status	Proponent	Submitted At	Attachments	Committee Action	PCH Action
7980	F9-21	Ready for Final Admin	Regular User	27 Aug 2021 - 4:58 PM EDT	✓	None	None
8034	F9-21	Ready for Final Admin	Regular User	30 Aug 2021 - 5:08 PM EDT	✓	None	None
8210	F9-21	Ready for Final Admin	Regular User	8 Sep 2021 - 1:50 PM EDT	✓	None	None
8227	F9-21	Ready for Final Admin	Regular User	9 Sep 2021 - 5:25 PM EDT	✓	None	None
7983	F10-21	Ready for Final Admin	Regular User	27 Aug 2021 - 5:11 PM EDT	✓	None	None
8037	F10-21	Ready for Final Admin	Regular User	30 Aug 2021 - 5:20 PM EDT	✓	None	None
8213	F10-21	Ready for Final Admin	Regular User	8 Sep 2021 - 2:02 PM EDT	✓	None	None



## Create a new Proposal

Proposal name \*

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You choose who can see and make changes to this Proposal.



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Role \*

Co-Proponent

Co-Proponent

Editor

Viewer

### Collaborators

Name

Role

Regular User

✉ test-a+regular\_user@iccsafe.org

Proponent



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Book	Chapter or Appendix
2021 International Building Code	
2021 International Code Council Performance Code	
2021 International Existing Building Code	
2021 International Fire Code	
2021 International Fuel Gas Code	
2021 International Mechanical Code	
2021 International Plumbing Code	

What would you like to add?

☒ Select All



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Book	Chapter or Appendix	Section
2021 International Building Code	CHAPTER 2 DEFINITIONS	SECTION 701 GENERAL
2021 International Code Council Performance Code	CHAPTER 5 PRESCRIPTIVE COMPLIANCE METHOD	SECTION 702 BUILDING ELEMENTS AND MATERIALS
2021 International Existing Building Code	CHAPTER 7 ALTERATIONS—LEVEL 1	SECTION 703 FIRE PROTECTION
2021 International Fire Code	CHAPTER 15 CONSTRUCTION SAFEGUARDS	SECTION 704 MEANS OF EGRESS
2021 International Fuel Gas Code	CHAPTER 16 REFERENCED STANDARDS	SECTION 705 REROOFING
2021 International Mechanical Code		SECTION 706 STRUCTURAL
2021 International Plumbing Code		707 ELECTRICAL

What would you like to add?



### CHAPTER 7 ALTERATIONS—LEVEL 1



Add ▾

Save

Cancel

Instruction \*

Revise as follows ▾



Section Number

705.2.1.1

Title

Exceptions

Content

A roof recover shall **not** be permitted where any of the following conditions occur:

1. The existing roof or roof covering is water soaked or has deteriorated to the point that the existing roof or roof covering is not adequate as a base for additional roofing.
2. The existing roof covering is slate, clay, cement or asbestos-cement tile.
3. The existing roof has two or more applications of any type of roof covering.

## LIVE PREVIEW

**[BS] 705.2.1.1 Exceptions.** A roof recover shall not be permitted where any occur:

1. The existing roof or roof covering is water soaked or has deteriorated roof or roof covering is not adequate as a base for additional roofing.
2. The existing roof covering is slate, clay, cement or asbestos-cement tile.
3. The existing roof has two or more applications of any type of roof covering.







## ORIGINAL CODEBOOK TEXT

**[BS] 705.2.1.1 Exceptions.** A roof recover shall not be permitted where any occur:

1. The existing roof or roof covering is water soaked or has deteriorated roof or roof covering is not adequate as a base for additional roofing.
2. The existing roof covering is slate, clay, cement or asbestos-cement tile.
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IEBC: [BS] 705.2.1.1

**Proponents:** Regular User, representing ENT (test-a+regular\_user@iccsafe.org)

### 2021 International Existing Building Code

**Revise as follows:**

**[BS] 705.2.1.1,1 Exceptions.** A roof recover shall not be permitted where any of the following conditions occur:

1. The existing roof or roof covering is water soaked or has deteriorated to the point that the existing roof or roof covering is not adequate as a base for additional roofing.
2. The existing roof covering is slate, clay, cement or asbestos-cement tile.
3. The existing roof has two or more applications of any type of roof covering.

**Reason:** This is great!



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### COST IMPACT

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The code change proposal will increase the cost of construction


The code change proposal will decrease the cost of construction

The code change proposal will not increase or decrease the cost of construction



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- ☒ **Make required changes**  
Include at least one section to the proposal through code editor.
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✓ Regular User
- ☒ **Complete required documentation**  
Include a Reason Statement and BOTH Cost Impact Statement fields (drop-down and substantiation).
- ☒ **Include bibliography**  
Include a bibliography of substantiating material, if any.
- ☒ **Review your attachments**  
If you have PDF or graphic inserts to be included in your reason statement, include a copy of the inserts as an attachment in the Attachments tab. Be sure to identify each insert.
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# 2024 IECC Proposal submittal

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## Governor's Office of Energy

# H.R.3684 Infrastructure Investment & Jobs Act

Potential Funding Opportunities

*October 6, 2021*

Robin Yochum, Energy Program Manager



# Bill Overview

## H.R.3684

Authorizes funds for Federal-aid highways, highway safety programs, transit programs and other purposes such as:

- **Grid Infrastructure & Resiliency**
- **Energy Efficiency & Building Infrastructure**
- **Fuels & Technology Infrastructure**
- Passed the House 7/1/2021 & Senate 8/10/2021
- Currently resolving differences in the House, date of next meeting TBD

**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**

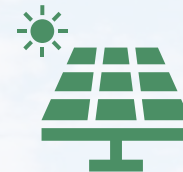
**Cost Effective Codes  
implementation for  
efficiency &  
resilience**

**Grants for Energy  
Efficient buildings &  
alternative fuel  
infrastructure for  
schools & non-profits**



## **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, research, development & demonstration.

## Energy Improvement in Rural or Remote Areas

- **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



**Governor's Office of Energy**



# Grants for Energy Efficient buildings & alternative fuel infrastructure for schools & non-profits

- **Eligible Entities:**

- Public Schools, non-profits

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

- \$500 million

- **Purpose:**

- Local school agencies, encouraged to work with community partners, includes HVAC



**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 CO<sub>2</sub> 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**