



## International Energy Conservation Code Consensus Committee-Residential

### Draft Meeting Agenda (6/22 posting)

[Webex Meeting Link](#)

June 23, 2022

2:00 PM EST to 5 PM EST (3 hours)

**Committee Chair:** JC Hudgison, CBO, Assoc. AIA

**Committee Vice Chair:** Bridget Herring & Robin Yochum, LEED Green Associate

1. Call to order.
2. Meeting Conduct.
  - a. Identification of Representation/Conflict of Interest
  - b. ICC [Council Policy 7](#) Committees: Section 5.1.10 Representation of Interests
  - c. ICC [Code of Ethics](#): ICC advocates commitment to a standard of professional behavior that exemplifies the highest ideals and principles of ethical conduct which include integrity, honesty, and fairness. As part of this commitment it is expected that participants shall act with courtesy, competence and respect for others.
  - d. ICC [Antitrust Compliance Guideline](#)
3. Roll Call.
4. Approve Agenda
5. Approval of Minutes
6. Administrative issues-staff

RECPI-10-21 (Water Heater Efficiency)	(HVACR as modified 6-3-2)
REPI-138-21 (Service water heating units)	(HVACR disapprove 6-5)
REPI-99-21 (Electric resistance zone heat unit)	(HVACR as modified 7-1-1)
REPI-56-21 (Insulation installation)	(Envelope as modified 11-2)

9. Other business.

10. Upcoming meetings. June 30 at 12 PM EST

11. Adjourn.

FOR FURTHER IECC Residential INFORMATION BE SURE TO VISIT THE ICC WEBSITE: [IECC Residential Website](#)

FOR ADDITIONAL INFORMATION, PLEASE CONTACT:

Kristopher Stenger, AIA, CBO  
Director of Energy Programs  
International Code Council  
[kstenger@iccsafe.org](mailto:kstenger@iccsafe.org)



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #

REPI-113



R402.1.1 Vapor retarder  
R402.2.3 Eave baffle  
R402.2.4.1 Access hatches and doors  
R402.2.10.1 Crawl space wall insulation installations  
R402.4.1.1 Installation  
R402.4.1.2 Testing  
R402.5 Maximum fenestration U-factor and SHGC

### **Mechanical**

R403.1 Controls  
R403.3, including R403.3.1, except Sections R403.3.2, R403.3.3  
and R403.6  
Ducts  
R403.4 Mechanical system piping insulation  
R403.5.1  
Heated water circulation and temperature maintenance  
systems  
R403.5.3 Drain water heat recovery units  
R403.6 Mechanical ventilation  
R403.7 Equipment sizing and efficiency rating  
R403.8 Systems serving multiple dwelling units  
R403.9 Snow melt and ice systems  
R403.10 Energy consumption of pools and spas  
R403.11 Portable spas  
R403.12 Residential pools and permanent residential spas

### **Electrical Power and Lighting Systems**

R404.1 Lighting equipment  
R404.2 Interior lighting controls  
R404.4 Solar and energy storage inverters

a. Reference to a code section includes all the relative subsections except as indicated in the table.





**Add new standard(s) as follows:**

IEEE Institute of Electrical and Electronic Engineers 3 Park Avenue, 17th Floor New York NY 10016  
1547-2018a

IEEE Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated  
Electric Power Systems Interfaces

UL UL LLC 333 Pfingsten Road Northbrook IL 60062-2096

1741

UL Standard for Inverters, Converters, Controllers and Interconnection System Equipment for Use With  
Distributed Energy Resources











## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	REPI-157-21
CDP ID #	
Code	IECC RE
Code Section(s)	IECC®: APPENDIX RC, SECTION RC102, RC102.2 (AX102.2) (New), RC102.2, TABLE RC102.2, ASHRAE Chapter 06 (New)
Location	
Proponent	Residential





~~a. The building shall meet the requirements of Table R406.2, and the building thermal envelope shall be greater than or equal to the levels of efficiency and SHGC in Table R402.1.2 or R402.1.3.~~

**Add new standard(s) as follows:**

**ASHRAE**

ASHRAE/IES 90.2-2018: Energy-Efficient Design of Low-Rise Residential Buildings Including approved addenda (Addenda A (approved Jan 2021), B (June 2021) and D (February 2022))

---

**Modification Reason:**

REPI-157 as originally proposed replaced the ERI Table with ASHRAE 90.2. This modification allows ASHRAE 90.2 as a compliance option while maintaining the current Appendix RC as an option.

This modification also adds the mandatory requirements to the base ERI score. The mandatory requirements are from Table R406.2 and Sections 406.3, 406.6 and 406.7.

The following mandatory requirements were added to the 90.2 option:

- R402.4.1.1 (Air barrier and insulation installation)
- R402.4.1.2 (Air barrier testing)
- R404.4 (Electric readiness) ----- (see REPI-111)
- R404.4 (Electric Vehicle Power Transfer Infrastructure) --- (see RECPI-6)

Updates reference standard ASHRAE 90.2 with approved Addenda:

- Addenda A (January 2021) – Updates referenced standards including updates of ANSI/RESNET/ICC 301 to 2019 edition, ANSI/RESNET/ICC 380 to 2019 edition and the addition of ASTM E3158
- Addenda B (June 2021) – Clarifies lighting provisions for common areas in multifamily structures
- Addenda D (February 2022) – Adds basic indoor environmental quality requirements for lighting systems. Adds reference to



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	REPI-160-21
CDP ID #	
Code	IECC RE
Code Section(s)	RC102.2 (AX102.2) Energy Rating Index zero energy score.
Location	
Proponent	Residential Electrical, Power, Lighting and Renewables Subcommittee
Proposal Status	
Subcommittee	RE EPLR
Subcommittee Notes	<p>Proponent: Steve Rosenstock representing Edison Electric Institute</p> <p>This proposal would add the more inclusive term “renewable energy resources” instead of spelling out various types of renewable energy. It would also change the terms of an energy purchase contract or lease from not less than 15 years to not less than 10. Some subcommittee members disagreed with changing from 15 to 10 years. The proponent contended that 10 years is more in line with how long the majority of people stay in a home.</p>
Recommendation	Approve as submitted
Vote	9-4
Recommendation Date	6/13/2021 10:48:11 AM



Committee Response	
Vote	Affirmative_____ Negative_____ Table_____ To Subcommittee_____
Date	

**REPI-160-21**

**IECC®: RC102.2**

**Proponents:**

Steven Rosenstock, representing Edison Electric Institute (srosenstock@eei.org)

**2021 International Energy Conservation Code**

**Revise as follows:**

RC102.2 (AX102.2) Energy Rating Index zero energy score.

Compliance with this section requires that the rated design be shown to have a score less than or equal to the values in Table RC102.2 when compared to the Energy Rating Index (ERI) reference design determined in accordance with RESNET/ICC 301 for both of the following:

1. ERI value not including on-site power production (OPP) calculated in accordance with RESNET/ICC 301.
2. ERI value including on-site power production calculated in accordance with RESNET/ICC 301 with the OPP in Equation 4.1.2 of RESNET/ICC 301 adjusted in accordance with Equation RC-1.

(Equation RC-1)

where:

**CREF = Community Renewable Energy Facility power production—the yearly energy, in kilowatt hour equivalent (kWheq),**

**contracted from a community renewable energy facility that is qualified under applicable state and local utility statutes and rules, and that allocates bill credits to the rated home.**

REPC = Renewable Energy Purchase Contract power production—the yearly energy, in kilowatt hour equivalent (kWh<sub>eq</sub>), contracted from an energy facility that generates energy with renewable energy resources ~~photovoltaic, solar thermal, geothermal energy or wind systems~~, and that is demonstrated by an energy purchase contract or lease with a duration of not less than ~~15~~ 10 years.



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #

REPI-

Committee Response	
Vote	Affirmative_____ Negative_____ Table_____ To Subcommittee_____
Date	

**REPI-164-21**

**IECC®: RC103 (AX 103) (New)**

**Proponents:**

Steven Rosenstock, representing Edison Electric Institute (srosenstock@eei.org)

**2021 International Energy Conservation Code**

**Add new text as follows:**

RC103 (AX 103) Alternative Scoring Programs and Standards.

Alternative programs or standards, such as but not limited to the US EPA Energy Star Homes, USGBC LEED for Homes, and the ICC-700 National Green Building Standard shall be allowed to be used to comply with this section when approved by code officials.



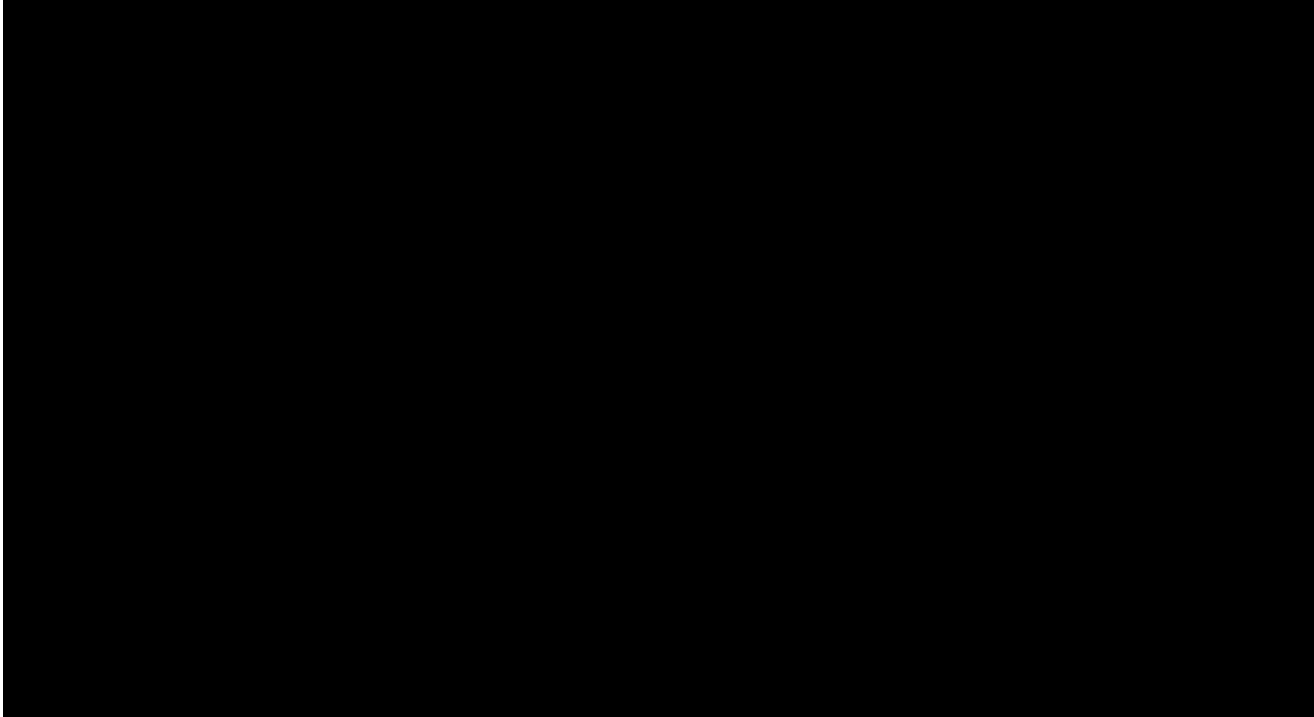
## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RECPI-10-21      Committee Proposal for water heater efficiency
CDP ID #	605
Code	IECC RE
Code Section(s)	R408.2.3    New Section n
Location	base
Proponent	IECC RE HVACR & WH subcommittee
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	Original Proposal REPI-138-21 Proponent and AHRI have been working on this Proposal for months to gain consensus on a modification. After months of discussion both the Proponent and AHRI came back to the subcommittee with similar but still different modifications. After long discussion the subcommittee voted to Disapprove the modified version presented by the Proponent and Approve the version presented by AHRI. This created a committee Proposal listed and submitted separately. Proposal RECPI-10-21.

Recommendation



...ing efficiencies ... Service work...





## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	REPI-138-21      Service WH units
CDP ID #	499
Code	IECC RE
Code Section(s)	R408.2.3    New Section n
Location	base
Proponent	Patricia Chawla      patricia.chawla@austinenergy.com
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	<p>Proponent and AHRI have been working on this Proposal for months to gain consensus on a modification. After months of discussion both the Proponent and AHRI came back to the subcommittee with similar but still different modifications. After long discussion the subcommittee voted to Disapprove the modified version presented by the Proponent and Approve the version presented by AHRI. This created a committee Proposal listed and submitted separately. Proposal RECPI-10-21.</p> <p>The recommendation by the subcommittee after a long discussion voted to Disapprove the Proponents Proposal.</p> <p><b>First motion</b> to approve Gary Klein with Chris Perry second. Motion did not</p>

Recommendation





Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee ___yes _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	





## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	REPI-056-21 insulation installation
CDP ID #	471
Code	IECC RE
Code Section(s)	R402.4.1.1, TABLE R402.4.1.1, R402.4.1.2 New Section n
Location	base
Proponent	Mark Lyles markl@newbuildings.org
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	Proponent: modified, closer to grade 1 level of performance, pull language from Title 24
Recommendation	<p>Bobby Parks motion to disapprove, Greg Johnson seconded. Reason: Good info but mostly installation instructions rather than code language. Some of the language used such as "without voids" is problematic.</p> <p>Referred back to SC by full committee. Modifications made by SEHPCAC and SC. Motion to approve. Reason: this proposal will help increase the proper installation of insulation and therefore the performance of residential buildings. 145.02 14.88 1</p>
Vote	12-4-1






--	--	--