



## International Code Council IECC Commercial Consensus Committee Draft Meeting Minutes

**Meeting Date: April 12, 2023**

**Committee Chair:** Duane Jonlin  
**Committee Vice Chair:** Emily Hoffman

1. Call to order by Vice Chair Emily Hoffman. The meeting was called to order at approx. 2:00 pm Eastern Time.

2. Roll Call. Chair Duane Jonlin, Vice-Chair Emily Hoffman, Ali Alaswadi, John Bade, Jack Bailey, Matt Belcher, Diana Burk, Richard Burton, Payam Bozorgchami, Zepherinus Church Norbert, Chris Clausing, Shannon Corcoran, Jay Crandell, Thomas Culp, John Dalzell, Charles Eley, Greg Eades, Drake Erbe, Anthony Floyd, David Goldstein, Stephen Harris, Glenn Heinmiller (alt), Bryan Holland, Greg Johnson, Michael Jouaneh, Andrew Klein, Vladimir Kochkin, Emily Lorenz, Michele Melley, Don Mock, Melissa Moseley, Susan Musngi, Dan Nall, Christopher Perry (alt), Kevin Rose, Robert Ross, Amin Tohmaz, Michael Rosenberg (alt), Steve Rosenstock, Blake Shelide, Michael Tillou, Michael Waite, Jeremy Williams, James Yeoman

Committee members in attendance: (42 in attendance 2 absent)

Not in attendance: Gina Bocra (alt), Paula Cino (alt), Amber Wood (alt), Laura Petrillo-Groh, Scott Brooks, Lauren Urbanek (alt), Douglas Powell (alt), Vincent Martinez (alt), Hope Medina,

ICC Staff in attendance:

Kris Stenger, Ed Wirtschoreck, Russ Manning, Dave Walls

3. Approval of the Minutes from April 5-motion to approve by Payam Bozorgchami with a second from Matt Belcher.

4. Approval of Agenda- Motion to approve the agenda by Bryan Holland with a second from Payam Bozorgchami. Approved unanimously.

5. Administrative items-none at this time

6. Action Items

a) CED1-183-22 (On-site renewable energy systems) Proponent Steven Rosenstock. Introduction by Michael Jouaneh, chair of the Electrical Power, Lighting, Renewables subcommittee. Recommendation by the subcommittee is to disapprove. Vote to disapprove passes 23-6. Reason: Proposal would reduce amount of cost-effective renewables required.

ASHRAE 90.1 has a goal of zero energy buildings by 2031 so renewables in 90.1 are on a path of increasing and not staying static. Removing requirement to retire RECs would reduce the environmental benefits of on-site renewable energy.

b) CED1-52-22 (On-site renewables modifications) Proponent Alex Smith. Introduction by Michael Jouaneh, chair of the Electrical Power, Lighting, Renewables subcommittee. Recommendation by the subcommittee is to disapprove. Vote to disapprove passes 31-6. Reason: Proposal would reduce amount of cost-effective on-site renewables required.

c) CED1-85-22 (Modify definitions in CC102) Proponent Alex Smith. Introduction by Michael Jouaneh, chair of the Electrical Power, Lighting, Renewables subcommittee. Recommendation by the subcommittee is to disapprove. Vote to disapprove passes 30-6. Reason: The current definitions in the first draft correctly refer to electricity generation and not intended for other types or sources of energy generation.

d) CED1-53-22 (On-site renewable energy systems) Proponent Bryan Holland. Introduction by Michael Jouaneh, chair of the Electrical Power, Lighting, Renewables subcommittee. Recommendation by the subcommittee is to approve. Vote to approve fails 9-26-2. Motion to disapprove by Michael Tillou with a second from Greg Johnson. Motion to disapprove passes 28-4-2. Reason: The proposed change has the potential to create confusion about what output capacity is required to be used for sizing systems which could lead to systems being sized with a total capacity 10-15% higher than intended.

e) CED1-51-22 (Renewable energy in small buildings) Proponent Bryan Holland. Introduction by Michael Jouaneh, chair of the Electrical Power, Lighting, Renewables subcommittee. Recommendation by the subcommittee is to approve. Vote to approve fails 15-18-3. Motion to disapprove by Greg Johnson with a second from James Yeoman. Motion to disapprove passes 22-12-3. Reason: restricts opportunities for off-site renewable energy compliance.

f) CED1-208-22 (Green retail tariffs in glide path) Proponent Charles Eley. Introduction by Michael Jouaneh, chair of the Electrical Power, Lighting, Renewables subcommittee. Recommendation by the subcommittee is to disapprove. Vote to disapprove fails 16-19-5. Motion to approve by Charles Eley with a second from John Bade. Motion to approve passes 26-10-3. Reason: Green retail tariffs are the most common method for procuring off site renewable energy. Making them available for compliance with the Glide Path (Appendix CD) will provide the only option for many more building owners and permit applicants.

g) CED1-55-22 (Green retail tariffs) Proponent Charles Eley. Introduction by Michael Jouaneh, chair of the Electrical Power, Lighting, Renewables subcommittee. Recommendation by the subcommittee is to disapprove. Vote to disapprove fails 13-19-6. Motion to approve by Charles Eley with a second from Greg Johnson. Motion to approve fails 21-12-6. Motion to approve as modified by Charles Eley with a second from Steve Rosenstock. Motion to approve as modified passes 20-9-5. Reason: Green retail tariffs are the most common method for procuring off site renewable energy. Making them available for compliance with C405.15 (when the exceptions to C405.15.1 apply) will provide the only option for many more building owners and permit applicants.

h) CED1-56-22 (Renewable energy investment fund) Proponent Charles Eley. Introduction by Michael Jouaneh, chair of the Electrical Power, Lighting, Renewables subcommittee. Recommendation by the subcommittee is to approve as modified. Vote to approve as modified

passes 30-9-1. Reason: When on-site renewables is not feasible as defined by the exceptions, this proposal would offer an additional path for purchasing off-site renewables from the jurisdiction. This would offer more flexibility and lower cost.

i) CED1-170-22 (Provide exception for R-2 occupancies for water heater controls) Proponent Greg Johnson. Introduction by John Bade, chair of the HVACR and water heating subcommittee. Recommendation by the subcommittee is to disapprove. Vote to disapprove passes 26-9-2. Reason: The IECC HVACR and Water Heating Subcommittee does not agree that R-2 occupancies are different enough from other occupancies to warrant an exception. Further, the proposed text would create a conflict with other requirements in C406.

j) CECD1-14-22 (On-site renewables modifications) Proponent IECC CE HVACR and water heating subcommittee. Introduction by John Bade, chair of the HVACR and water heating subcommittee. Recommendation by the subcommittee is to approve. Vote to approve passes 30-2-1. Reason: this proposal requires that on-site renewable energy used to meet the exception is not the same energy used to meet other requirements. The changes in the body of C404.2.1 High-input service water-heating systems are editorial and do not change the requirement.

k) CED1-10-22 (Additional documentation update) Proponent Bruce Swiecicki. Introduction by Bryan Holland, chair of the Administration subcommittee. Recommendation by the subcommittee is to disapprove. Vote to disapprove passes 28-1-1. Reason: The proposed revisions to CED1-10 and 11 would add confusion and does not improve the requirement of the code. The proposed revisions to CED1-153, 154, and 171 are not reflect the intent or original cost-effectiveness rationale that was provided when the exceptions were added to the code.

l) CED1-11-22 (Additional documentation update) Proponent Bruce Swiecicki. Introduction by Bryan Holland, chair of the Administration subcommittee. Recommendation by the subcommittee is to disapprove. Vote to disapprove passes 35-0-1. Reason: The proposed revisions to CED1-10 and 11 would add confusion and does not improve the requirement of the code. The proposed revisions to CED1-153, 154, and 171 are not reflect the intent or original cost-effectiveness rationale that was provided when the exceptions were added to the code.

m) CECD1-20-22 (Exit stair LPD) Proponent Electrical power, lighting, renewables subcommittee. Introduction by Michael Jouaneh, chair of the Electrical power, lighting, renewables subcommittee. Recommendation by the subcommittee is to approve. Vote to approve 31-1-1. Reason: This addresses changes to Section 1008.2.1 of the IBC which requires higher illuminances in exit access stairways, exit stairways and at their required landings.

n) CECD1-24-22 (Casino gaming exception) Proponent Electrical power, lighting, renewables subcommittee. Introduction by Michael Jouaneh, chair of the Electrical power, lighting, renewables subcommittee. Recommendation by the subcommittee is to approve. Vote to approve passes 36-1. Reason: This proposal removes an exception for a space category that has been added to the lighting power allowance table.

o) CECD1-21-22 (Replacement for CED1-26) Proponent Electrical power, lighting, renewables subcommittee. Introduction by Michael Jouaneh, chair of the Electrical power, lighting, renewables subcommittee. Recommendation by the subcommittee is to approve as modified. Vote to approve as modified passes 35-0. Reason: The proposal restructures the code for clarity of requirements for dwelling units and sleeping units.

p) CECD1-22-22 (Time switch programming) Proponent Electrical power, lighting, renewables subcommittee. Introduction by Michael Jouaneh, chair of the Electrical power, lighting, renewables subcommittee. Recommendation by the subcommittee is to approve. Vote to approve passes 34-0-1. Reason: This proposal will address the issue of programming time clock controls when a schedule is not known.

q) CECD1-23-22 (Parking garage controls) Proponent Electrical power, lighting, renewables subcommittee. Introduction by Michael Jouaneh, chair of the Electrical power, lighting, renewables subcommittee. Recommendation by the subcommittee is to approve as modified. Vote to approve as modified passes 34-0-2. Reason: This proposal would clarify what areas are covered by parking garage lighting versus exterior lighting for controls and lighting power requirements.

r) CED1-9-22 (Sleeping units) Proponent Michael Myer. Introduction by Michael Jouaneh, chair of the Electrical power, lighting, renewables subcommittee. Recommendation by the subcommittee is to approve as modified. Vote to approve as modified passes 35-0. Reason: The proposal accommodates the specific lighting needs of patient rooms.

s) CED1-78-22 (UPS efficiency resubmittal) Proponent Nicholas O'Neil. Introduction by Michael Jouaneh, chair of the Electrical power, lighting, renewables subcommittee. Recommendation by the subcommittee is to approve as modified. Vote to approve as modified passes 36-0-1. Reason: This code change proposal aligns the efficiency requirements for UPS installed in computer rooms with the efficiency requirements for this same equipment installed in data centers. This will reduce the energy consumption of UPS in computer rooms while improving the overall energy efficiency of the occupancy.

t) CED1-75-22 (Delete hotel lobby lighting power allowance) Proponent Glenn Heinmiller. Introduction by Michael Jouaneh, chair of the Electrical power, lighting, renewables subcommittee. Recommendation by the subcommittee is to approve. Vote to approve passes 33-0-1. Reason: This will allow hotel lobbies to match the requirements of other lobbies, as the lighting requirements are similar.

u) CECD1-6-22 (Efficiency option L04 daylight) Proponent Electrical power, lighting, renewables subcommittee. Introduction by Michael Jouaneh, chair of the Electrical power, lighting, renewables subcommittee. Recommendation by the subcommittee is to approve. Vote to approve passes 35-0-1. Reason: Per reason statement of proposal

v) CED1-91-22 (Glass block reference) Proponent Brian Trimble. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by the subcommittee is to approve. Vote to approve passes 33-0. Reason: The correct terminology is glass block. Glazed block has a different meaning.

w) CED1-92-22 (Building thermal envelope) Proponent Aaron Phillips. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by the subcommittee is to approve. Vote to approve passes 32-0-1. Reason: Consistent use of "building thermal envelope" terminology.

x) CED1-94-22 (C402.1 clean-up) Proponent Jay Crandell. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by the subcommittee is to approve as modified.

Vote to approve as modified passes 34-0-1. Reason: Editorial clean-up of section references and titles for prescriptive U-factor, R-value, and component performance methods.

y) CED1-95-22 (C402.1 fenestration clean-up) Proponent Jay Crandell. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by the subcommittee is to approve as modified. Vote to approve as modified passes 37-0. Reason: Clean-up and move requirements related to fenestration into one place (Item 4 of list) and add one missing section reference.

z) CED1-108-22 (Relocate section in C402.1.2) Proponent Jay Crandell. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by the subcommittee is to approve as modified. Vote to approve as modified 35-0. Reason: move sections related to U-factor determination under section for U-factor determination and change title to remove reference to thermal resistance to be consistent focus on U-factors.

aa) CED1-110-22 (various errata) Proponent Tom Culp. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by the subcommittee is to approve. Vote to approve passes 37-0. Reason: Corrects various errata per proponent's reason statement.

ab) CED1-128-22 (Air barrier editorial clean up) Proponent Emily Lorenz. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by the subcommittee is to approve as modified. Vote to approve as modified passes 36-0. Reason: clean-up of some terminology related to the use of "air leakage" and general grammar.

ac) CED1-133-22 (Whole building test method exception) Proponent Anjana Agarwal. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by the subcommittee is to disapprove. Vote to disapprove passes 34-0-1. Reason: Equivalent approved methods are already included in the primary paragraph and this proposal does not add clarity.

ad) CED1-134-22 (Dwelling unit testing unit) Proponent Theresa Weston. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by the subcommittee is to approve. Vote to approve passes 33-0-1. Reason: Per proponent's reasoning statement, This proposal updates to the text to use defined terms "testing unit enclosure area."

ae) CED1-149-22 (Exterior wall envelope terminology) Proponent Jay Crandell. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by the subcommittee is to approve. Vote to approve passes 35-0. Reason: cleans up wording using existing defined terms and removes an unneeded definition that is used only once in this one exception item and potentially conflicts with "exterior wall covering" defined term in the building code.

af) CED1-88-22 (Exterior envelope) Proponent Brian Trimble. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by the subcommittee is to disapprove. Vote to disapprove passes 35-0-1. Reason: Based on prior action on CED1-149.

ag) CED1-151-22 (Update ASTM standards) Proponent Theresa Weston. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by the subcommittee is to approve. Vote to approve passes 36-0. Reason: it keeps the reference standards up to date with the most recent version.

ah) CED1-209-22 (Solar reflectance alignment) Proponent Aaron Phillips. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by the subcommittee is to approve as modified. Vote to approve as modified passes 33-0. Reason: The proposed change aligns the requirements in C409 with changes in C402.

ai) CED1-184-22 (Off-site contract duration) Proponent Charles Eley. Introduction by Michael Jouaneh, chair of the Electrical power, lighting, renewables subcommittee. Recommendation by the subcommittee is to approve. Vote to approve fails 21-12-2. Motion to disapprove by Steven Rosenstock with a second from James Yeoman. Motion to disapprove passes 17-15-3. Reason: The current requirement of 10 years is aligned with typical commercial leases and real estate loans and it also reduces barriers to the use of such contracts.

aj) CECD1-18-22 (Additional energy credit for non-heat pump buildings) Proponent Mike Waite. Introduction by Greg Eades, chair of Modeling subcommittee. Recommendation by the subcommittee is to approve as modified. Vote to approve as modified passes 22-10-2. Reason: The proposed change aligns the requirements in C409 with changes in C402.

ak) CED1-205-22 (Appendix CC update) Proponent Reid Hart. Introduction by Greg Eades, chair of Modeling subcommittee. Recommendation by the subcommittee is to disapprove. Vote to disapprove passes 29-0. Reason: This proposal would replace the values in the Appendix CC prescriptive renewable energy requirement table based on PNNL's progress indicator analysis. However, the analysis has not been completed.

al) CECD1-15-22 (Appendix CD update) Proponent Duane Jonlin. Introduction by Greg Eades, chair of Modeling subcommittee. Recommendation by the subcommittee is to approve as modified. Vote to approve as modified passes 28-2-2. Reason: This proposal updates "placeholder values" for the prescriptive pathway additional energy credit requirement and the performance path PAEC multiplier based on input from PNNL and others. It also incorporates two editorial changes.

am) CED1-179-22 (Remove Appendix CE) Proponent Ted Williams. Introduction by John Bade, chair of HVACR and water heating subcommittee. Recommendation by the subcommittee is to disapprove. Vote to disapprove 28-1-1. Reason: Providing more guidance for the jurisdictions wishing to adopt the stretch code is appropriate.

an) CED1-176-22 (Reduce service water heating DR credit when required in Section 404) Proponent Reid Hart. Introduction by John Bade, chair of HVACR and water heating subcommittee. Recommendation by the subcommittee is to approve as modified. Vote to approve as modified passes 26-2-3. Reason: Ensures that double credit is not given where baseline DR requirements exist. The modified proposal is clearer than the original.

ao) CED1-161-22 (Reduce DR energy credits for HVAC when required in C403) Proponent Reid Hart. Introduction by John Bade, chair of HVACR and water heating subcommittee. Recommendation by the subcommittee is to approve as modified. Vote to approve as modified passes 33-0-1. Reason: Standing on the reason statement with the proposal but with clearer language.

ap) CECD1-13-22 (Clarify hydronic heat recovery hospital cooling systems) Proponent HVACR subcommittee. Introduction by John Bade, chair of HVACR and water heating subcommittee.

Recommendation by the subcommittee is to approve. Vote to approve passes 33-0. Reason: Standing on the reason statement with the proposal but with clearer language.

aq) CECD1-17-22 (Delete fan power limits) Proponent HVACR subcommittee. Introduction by John Bade, chair of HVACR and water heating subcommittee. Recommendation by the subcommittee is to approve. Motion to approve as modified by Greg Johnson. Vote to modify passes 24-0-1. Vote to approve as modified passes 21-6-4. Reason: The same language was approved by ASHRAE SSPC 90.1, but not in time for the 2022 version. To keep the codes in alignment, IECC 2024 should keep the language that is in IECC 2021.

7. Subcommittee Reports-none at this time

8. Other Business-none at this time

9. Upcoming meetings. Wednesday, April 19, 2pm-5pm Eastern.

10. Adjourn. The meeting was adjourned at approx. 5:00 pm Eastern time.

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FOR ADDITIONAL INFORMATION, PLEASE CONTACT:

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