



International Energy Conservation Code Electric Power, Lighting, and Renewables (PLR) Subcommittee

Meeting Agenda

Jan. 9, 2023

11:00 AM EST to 2:00 PM EST (3-hours)

[Webex Link](#)

Committee Chair: Michael Jouaneh (mjouaneh@lutron.com); **Committee Vice Chair:** Jack Bailey (jbailey@oneluxstudio.com); **Note Taker:** Michael Myer (Michael.myer@pnnl.gov)

1. Call to order – Bailey [**start 11:02 am**]
2. Roll Call – Bailey (11 SC voting members needed for quorum)

	First Name	Last Name	Category	Company
	Ali	Alaswadi*	Gov. Regulator	DC
X	Jack	Bailey*	User	One Lux Studio/Int'l Assoc. of Lighting Designers
X	Bernard	Bauer	User	Integrated Lighting Concepts
X	Payam	Bozorgchami	Gov. Regulator	CA Energy Comm
X	Joe	Cain	Manufacturer	Solar Industries Assoc
X	Nick	Ferzacca	User	IMEG Corp.
X	Anthony	Floyd*	Gov. Regulator	City of Scottsdale
	Glenn	Heinmiller	User	Lam Partners/Int'l Assoc. of Lighting Designers
X	Bryan	Holland*	Standards Promulgator	NEMA
X	Harold	Jepsen	Manufacturer	Legrand
	Michael	Jouaneh*	Manufacturer	Lutron
	Joyce	Kelly	User	GLHN Architects & Engineers
X	Andrew	Klein*	Consumer	BOMA
X	Mark	Lien	Standards Promulgator	IES
	Jon	McHugh	Gov. Regulator	McHugh Energy
X	Hope	Medina*	Gov. Regulator	Cherry Hills Village
X	Melissa	Moseley*	User	HDR/American Society of Interior Designers
X	Susan	Musngi*	Consumer	Camden
X	Michael	Myer	Consultant	PNNL
X	Steven	Rosenstock*	Utility	Edison Electric Institute
X	Wayne	Stoppelmoor	Manufacturer	Schneider Electric
	Mitchell	Tolbert	Gov. Regulator	City of Austin
X	Michael	Turns	Utility	MA Program Administrator

*denotes member of EC4 consensus committee

3. Introduction of any guests -- Bailey (name/representation type into chat)
4. Review/approve agenda – Bailey

1st Motion – Bryan Holland
 2nd – Bernie Bauer

5. Meeting conduct -- Bailey

6. Review key actions from last meeting and approve minutes – Bailey **[end by 11:10 am]**

1st – Steve Rosenstock
 2nd – Melissa Moseley

7. Update on process/schedule –Bailey

- On-site renewable discussion
- Vote: 10 yes, 3 no to hear “On-site Renewable” related Public Comments: CED1-10, 11, 153, 154, 171

8. New business. **[end by 1:50 pm]**

Energy Monitoring (9)

CEPC1-003-22	C405.13	Energy monitoring	Diana Burk
CED1-033-22	C405.13	Energy monitoring plan for disclosure	Steven Rosenstock
CED1-032-22	C405.13	Scope of energy monitoring	Steven Rosenstock
CED1-031-22	C405.13	Energy monitoring exception for dwelling and sleeping units	Greg Johnson
CED1-036-22	C405.13.2 table	EV monitoring update	Steven Rosenstock
CED1-037-22	C405.13.2 table	EV energy monitoring removal	Greg Johnson
CED1-030-22	C405.13	Scope of energy monitoring	SEHPCAC
CED1-034-22	C405.13	Energy monitoring all energy forms	Steven Rosenstock
CED1-035-22	C405.13	Energy monitoring energy forms	Helen Sanders

CEPCI-1-003 | Energy monitoring

- Diana Burk / NBI
 - 40 bench marking requirements across the use
 - Difference between 10,000 and 25,000 ft² bench marking
 - Comment is informational because NO proposal made; no action on comment

CED1-032-22 | Scope of energy monitoring

- Proposed by Steven Rosenstock
 - Shifts from 10,000 ft² to 25,000 ft²
 - Wants to align with 10th Std. 90.1-2022
 - Proposes alignment to avoid “code switching” between IECC and Std. 90.1
- Harold Jepsen
 - What is the difference between this and CE-038?
- Bryan Holland

- NEMA does not support the change
 - Yes, NEMA wants alignment, but only where it moves energy efficiency forward
- Wayne Stopplemoor
 - Alignment is good, but because the codes have different cycles, one will also be out of sync with another
- Greg Johnson
 - Proponent did not provide cost justifications
- Mike Turns
 - In favor of leaving at 10,000 ft² threshold
- Motion to disapprove:
 - 1st Bryan Holland
 - 2nd Harold Jepsen
 - Vote: 11 yes | 4 no | 0 abstain – chair not voting
 - Reason Statement: Approval would result in a reduction in stringency compared to the 1st Public Comment Draft, resulting in a reduction potential energy efficiency (knowledge of usage results in savings) of small buildings.

CED1-033-22 | Energy monitoring plan for disclosure

- Proposed by Steven Rosenstock
 - Shouldn't dictate method of representing the data
- Jon McHugh
 - Requirement tells building how to use / represent the data
- Helen Sanders
 - Original group that presented the language
- Steve Rosenstock
 - Difference between benchmarking and modeling
- Greg Johnson
 - Raised concerns about the comment language and code
 - Also stated that some language is being duplicated
- Bryan Holland
 - NEMA supports comment; partially for same reason as Johnson's comment – some of these functions are provided by energy monitoring. Does line-item specification help?
- Harold Jepsen
 - Doesn't remember reviewing this language in the original proposal
- Motion for disapproval:
 - 1st Jon McHugh
 - 2nd Bernie Baurer
 - Vote: 10 yes | 5 no | 1 abstain – chair not voting
 - Reason statement: The language in Public Comment Draft #1 that is proposed to be deleted will increase the usefulness of the data collected by allowing it to be compared with the specific model (for those that did the simulation) of the building.

CED1-031-22 | Energy monitoring exception for dwelling and sleeping units

- Proposed by Greg Johnson
 - In Std. 90.1 Dwelling Units are exempted, IECC 2021 exempts all R-2 facilities
 - Do we want people in apartments or hotel rooms to be reporting?
 - Comment was offered in the spirit of compromise
- Chair

- There are other proposals with blanket proposals for R-2 spaces
 - Dwelling includes dormitory or patient rooms?
- Greg Johnson
 - This is about reporting, not metering
 - Are we going to require dwelling units to disclose?
- Wayne Stopplemoor
 - Disclosure is not a requirement, just data needs to be in a format that is ready to be disclosed
- Bryan Holland
 - NEMA is in opposition
 - NEMA sees it as a rollback
 - NEMA entered it into IECC regardless of occupancy / size in 2021
- Discussion about R-2 and dwelling units
- Modification made on screen
- Motion to approve as modified:
 - 1st Hope Medina
 - 2nd Anthony Floyd
 - Vote: 6 yes | 4 no | 4 abstain – chair not voting
 - Reason statement: The addition of the exception for dwelling units in R-2 buildings addresses the unique situation of actual living units in how they work in practice

CED1-036 & 37 | EV monitoring

- (36) Proposed by Steven Rosenstock
 - Most EV chargers are provided by 3rd parties as a separate electrical service from the building
 - Does not help building owner
- Greg Johnson
 - Committee cannot just keep adding cost
- Bryan Holland
 - NEMA supports CED1-036
- Hope Medina
 - Vote (36) – 7
 - Vote (37) – 3
- Motion to approve 36 as submitted
 - 1st Bryan Holland
 - 2nd Harold Jepsen
 - Vote: 9 yes | 2 no | 2 abstain
 - Reason Statement: Ensures the monitoring of EV charging loads does not include equipment and systems that are supplied by a separate service from an energy monitored building.
- Motion to disapprove 37 as submitted
 - 1st Bryan Holland
 - 2nd Harold Jepsen
 - Vote: 7 yes | 3 no | 2 abstain
 - Reason Statement: Based on prior action related to CED1-036.

CED1-030, 34 & 35 | Energy metering and monitoring

- Proposers merged into one joint proposal

- Straw poll related to omitting some text
- Motion to disapprove aligned proposal
 - 1st – Wayne Stopplemoor
 - 2nd – Bryan Holland
 - Vote: 5 yes | 2 no | 3 abstain

CED1-030

- Motion to approve
 - 1st – SEHPCAC
 - 2nd – Steve Rosenstock
 - Modification:
 - 1st – Steve Rosenstock
 - 2nd – Harold Jepsen
 - Vote: 6 yes | 0 no | 4 abstain
 - Approve as modified
 - Vote: 5 yes | 3 no | 4 abstain
 - Reason Statement: The proposal will clarify application of metering requirements to include all energy.
- Clarification CED1-030 incorporates CED1-36

CED1-34

- Proponent Steve Rosenstock
- Motion to disapprove:
 - 1st Bryan Holland
 - 2nd Payem
 - Vote: 8 yes | 1 no | 2 abstain
 - Reason Statement: Based on prior action on CED1-30

CED1-35

- Proponent Helen Sanders
- Motion to disapprove:
 - 1st Bryan Holland
 - 2nd Wayne Stopplemoor
 - Vote: 8 yes | 0 no | 4 abstain
 - Reason Statement: Based on prior action on CED1-30

9. Other business – Bailey **[end by 1:59 pm]**

- [Teams site](#)

10. Future meeting(s): **Jan. 23, 2023, 11 am – 2 pm ET**

10. Adjourn **[2:00 pm]**

FOR FURTHER INFORMATION BE SURE TO VISIT THE ICC WEBSITE:

[ICC Energy webpage](#)

[Code Change Monograph](#)

FOR ADDITIONAL INFORMATION, PLEASE CONTACT:

Subcommittee Chair



Chat.txt



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