



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

Meeting Agenda

March 20, 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 – Jouaneh [**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
	Jack	Bailey*	User	One Lux Studio/Int'l Assoc. of Lighting Designers
	Bernard	Bauer	User	Integrated Lighting Concepts
	Payam	Bozorgchami	Gov. Regulator	CA Energy Comm
	Joe	Cain	Manufacturer	Solar Industries Assoc
	Nick	Ferzacca	User	IMEG Corp.
	Anthony	Floyd*	Gov. Regulator	City of Scottsdale
	Glenn	Heinmiller	User	Lam Partners/Int'l Assoc. of Lighting Designers
	Bryan	Holland*	Standards Promulgator	NEMA
	Harold	Jepsen	Manufacturer	Legrand
	Michael	Jouaneh*	Manufacturer	Lutron
	Joyce	Kelly	User	GLHN Architects & Engineers
	Andrew	Klein*	Consumer	BOMA
	Mark	Lien	Standards Promulgator	IES
	Jon	McHugh	Gov. Regulator	McHugh Energy
	Hope	Medina*	Gov. Regulator	Cherry Hills Village
	Melissa	Moseley*	User	HDR/American Society of Interior Designers
	Susan	Musngi*	Consumer	Camden
	Michael	Myer	Consultant	PNNL
	Steven	Rosenstock*	Utility	Edison Electric Institute
	Wayne	Stoppelmoor	Manufacturer	Schneider Electric
	Mitchell	Tolbert	Gov. Regulator	City of Austin
	Michael	Turns	Utility	MA Program Administrator

*denotes member of EC4 consensus committee

3. Introduction of any guests -- Bailey (name/representation type into chat)

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4. Review/approve agenda – Jouaneh

Note that CED1-153, 154, and 171 have been removed from agenda as E4C has already taken action on them.

5. Meeting conduct -- Jouaneh

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

7. Update on process/schedule – Jouaneh/Bailey

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

Renewable Energy (18)

CEPC1-007-22	C405.15	Renewable Energy system comment -Discussed last meeting	Payam Bozorgchami
		Renewables revisions Diana Burk spoke in favor. Joe Cain expressed concern about language. After explanation Joe Cain made motion to accept as submitted and Jon seconded. Steve R. then suggested modifications. Jon objected. Joe made motion to approve with one modification and Jon seconded. Vote 14 in favor-0 against-2 abstain and chair not voting -Reason: CED1-50-22 Adds clarity to renewable electricity generation requirements, and removes redundant definitions.	
CED1-050-22	C405.15.1		Diana Burk
		Renewable energy exception Steve R. spoke in favor. Diana, Charles, and Joe spoke against. Joe motioned to disapprove, and Bryan seconded. Passes 9 in favor, 6 opposed and 1 abstention and chair not voting. Reason: CED1-49-22: This proposal would create a situation where statewide or local policy could over-ride the IECC, causing inconsistent application of the code. The proposal would negate some benefits of on-site renewable energy, such as resilience. This is counter-productive to local zero net energy or decarbonization goals.	
CED1-049-22	C405.15		Steven Rosenstock
		On-site renewable energy systems-Steve R. Spoke in favor. Several spoke against. Jon made motion to disapprove & Payam seconded. N Passes 10 in favor, 4 opposed and 1 abstention with chair not voting. Reason: Proposal would reduce amount of cost-effective renewables required. ASHRAE 90.1 has a goals 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	
CED1-183-22	C405.15.1		Steven Rosenstock

		reduce the environmental benefits of on-site renewable energy	
CED1-052-22	C405.15.1	On-site renewables modifications Greg Johnson spoke in favor. Diana spoke in opposition. Jon moved to reject, and Bryan seconded. Vote was 10 in favor to reject, 3 opposed and 0 abstentions and chair not voting. Reason: Proposal would reduce amount of cost-effective on-site renewables required.	Alex Smith
CED1-085-22	C201	Modify definitions Joe Cain spoke against and Greg J. spoke in favor. Bryan made motion to disapprove. Joe Cain seconded. Vote was 13 in favor, no opposition and no abstentions with chair not voting. Reason: The current definitions in the first draft correctly refer to electricity generation and not intended for other types or sources of energy generation.	Alex Smith
CED1-053-22	C405.15.1	On-site renewable energy systems Bryan spoke in favor. Bryan made motion to approve and Ali seconded. Vote was 6 in favor, 5 opposed and 3 abstentions and chair voted yes. Reason: This code change proposal will permit all on-site renewable electricity generation with an output nameplate power rating not less .75 W/ft2 and not just direct current generating systems	Bryan Holland
CED1-051-22	C405.15.1	Renewable energy in small buildings Charles spoke in favor. There was no PNNL analysis of this proposal per Michael Tillou but they do have info that solar is cost effective on small buildings. Jon made motion for approval. Bryan seconded. 9 in favor, 4 opposed and 1 abstention with chair not voting. Reason: Proposal would increase the scope of cost-effective on-site renewables requirements.	Charles Eley
CED1-055-22	C405.15.2.1	Green retail tariffs Charles spoke in favor. Joe Cain skeptical of this requirement. We have an exception with an RPS of 70% or more. Motion for disapproval: <ul style="list-style-type: none"> - Joe Cain - Mike Turns - Vote: 6 yes 1 no 7 abstain chair not voting - Reason: Subcommittee was concerned about the uncertainty and durability of green retail tariff programs. Noted there were many abstentions in the vote. 	Charles Eley

CED1-208-22	CD101.4.1	<p>Green retail tariffs in glide path – similar to 055, but would only affect appendix CD</p> <p>Motion for disapproval:</p> <ul style="list-style-type: none"> - 1st – Joe Cain - 6 yes 0 no 6 abstain chair not voting - Reason Statement: Subcommittee was concerned about the uncertainty and durability of green retail tariff programs. Noted there were many abstentions in the vote. Some subcommittee members felt they did not have enough information. 	Charles Eley
CED1-056-22	C405.15.2.1	<p>Renewable energy investment fund – Charles spoke in favor of the proposal. Jon McHugh was supportive of it. Discussion about the mechanics of different elements. CED1-50 was approved, but that conflicts with the definition here of REIF.</p> <p>Approval as modified (placing REIF definition from 1-50):</p> <ul style="list-style-type: none"> - 1st Jon McHugh - 2nd Bernie Bauer - Vote: 7 yes 1 no 4 abstain chair not voting - Reason statement: 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. 	Charles Eley
CED1-184-22	C405.15.2.2	<p>Off-site contract duration – recommends changing from 10 years to 15 years. Ali was involved and said that if businesses were not going to be in the space for a long time period, that they might want only 10 years. NBI and SEIA advocated for the 15 years.</p> <p>Motion to approve as submitted:</p> <ul style="list-style-type: none"> - 1st Joe Cain - 2nd Jon McHugh - Vote: 7 yes 3 no 4 abstain chair not voting - Reason statement: 15-year contract length is favorable for durability and for market stability. 	Charles Eley

CED1-054-22	C405.15.2	<p>Off-site renewable energy update – Removes text that removes “electrical”. NEMA stated that C405 is electrical, and this should be disapproved.</p> <p>Motion to disapprove:</p> <ul style="list-style-type: none"> - 1st – Bryan Holland - 2nd – Joe Cain - Vote: 10 yes 0 no 1 abstain chair not voting 	Bruce Swiecicki
CED1-010-22	C407.3.2	On site renewable - additional documents	Bruce Swiecicki
CED1-011-22	C409.6.1.9	On site renewable - modelling	Bruce Swiecicki
CED1-153-22	C403.10	On site renewable - high-capacity gas boilers	Bruce Swiecicki
CED1-154-22	C403.11.6	On site renewable - heat recovery for healthcare	Bruce Swiecicki
CED1-171-22	C404.8.3	On site renewable - pool covers	Bruce Swiecicki

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

- [Teams site](#)

10. Future meeting(s):

- **Friday, March 24, 2023, 11 am – 2 pm ET**
- **Friday, March 31, 2023, 11 am – 2 pm ET (if needed)**

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



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