IECC-C Modeling Subcommittee Meeting – Agenda
Monday August 21, 2023 –3:30-5:00 PM EDT
Join via WebEx

Attendance:

#	Voting Members, Effective 7/27/23	Present	Guests	Present
1	Eades, Greg - EPA (Chair)			
2	Eley, Charles - Architecture 2030 (VC)			
3	Anderson, Courtney - City and Co. Denver Gleason, Thomas			
4	Bomer, Bryan - Montgomery Co., MD			
5	Dalzell, John - Boston Planning and Dev.			
6	Denniston, Sean – NBI Lyles, Mark			
7	Deokar, Pratik - Rheem			
8	Edwards, Ben - NORESCO			
9	Giunta, Frank – Trane Technologies			
10	Goldstein, David - NRDC			
11	Gowri, Krishnan - Intertek Inc			
12	Grew, Greg – Architect/Code Consultant			
13	Harris, Stephen - University of Texas Powell, Doug			
14	Hernandez, Alfonso - Gensler			
15	Hoffman, Emily - NYC			
16	Lessans, Mark - Johnson Controls			
17	McCullough, Anna - Group 14 Eng.			
18	Mock, Don - Howard County			
19	Panigrahi, Amiya - TTUHSC			
20	Petrillo-Groh, Laura, AHRI Deary, Thomas			
21	Rosenberg, Mike – PNNL (Consultant)			
22	Waite, Mike – ACEEE Wood, Amber			

Agenda:

1. Introductions/Attendance
2. Determination of Quorum
3. Meeting Note Taker: Anna McCullough
4. Schedule
   a. The next Modeling SC meeting Monday August 28, 2023 at 3:30 PM EDT

5. Approval of meeting notes
   a. N/A   *vote*
6. *Announcements*   *information*
   a. N/A

7. Old Business, Tabled Motions

discussion/vote
   a. CE2D-57-23   Modify "Buildings w/o Heat Pumps" (New)   Richard Lord
   b. CE2D-51-23   Modify Renewable and Load Mgmt Carryover Table   Laura Petrillo-Groh
        i. Tabled until next week

8. New Business   *discussion/vote*

   a. CE2D-60-23   Remove Renewable and Load Mgmt Credit Table   Eric Tate
        i. Reason – credit values are unsubstantiated and no presenting supporting calculations
        ii. Motion – Mike Waite to disapprove, Sean Denniston seconded
        iii. Disapproved:
             1. A – 0
             2. D – 12
             3. Abstention - 1
   b. CE2D-61-23   TSPRsav Formula   Mike Tillou
        i. Mike Tillou:
             1. Meant as an editorial comment, to clean up some issues that they found during the public draft comment – revision in subscripts and formula fixes
             2. Steve Rosenstock:
                  a. This isn't what is in the monograph, is this as modified?
                  b. Answer from Mike Tillou – This is what was submitted, couldn't get it to show up correctly in CDPaccess. This proposal is as submitted.
             3. Krishnan Gowri:
                  a. Can you confirm the change of switching the target and proposed?
                  b. Answer from Mike Tillou – Yes, this is the correct change, there is an example in the reason statement. The way it was originally done, you could end up with a negative number.
             4. Mike Waite:
                  a. Is TSPRa meant to represent a floor area percentage?
                  b. Answer from Mike Tillou: Yes
                  c. Mike Waite – typically we use different variables for different values, not subscripts
                  d. Mike Tillou – agrees, this is confusing, if there are better variables we're open to it, not sure how to make it clearer without having the help from a working group to make sure the variables aren't used other places in the code
             5. Charles Eley:
                  a. Agrees with Mike Waite – suggests using $AREA_{TSPR}$ in lieu of $TSPR_a$
                  b. Mike Tillou – Fine with including it as a friendly amendment
                  c. Greg Eades suggests a modification, table until next week
             6. Charles Eley – motions to table, Ben Edwards seconds
                  a. Unanimous, approved: 14-0-1

c. CE2D-65-23   Remove HP WH or Demand Response Credit Adj Table   Eric Tate
   i. Eric Tate:
      1. Transparency issue, no justification or citations. Removing this table would decrease the cost of construction and projects could use insulation to be more cost effective and efficient
   ii. Mike Waite – motion to disapprove, David Goldstein seconded
      1. Mike Waite – discussion point:
         a. In the original proposal there was supporting analysis including publicly released analysis by PNNL and that is what the committee used to evaluate whether to include these in the code. The reason statement isn't accurate to the committee or the support we were provided to make those decisions.
      2. 13 – disapprove, 0 – approve, 1 - abstention
d. CE2D-72-23   Remove Additional Credit Requirements for Alterations   Eric Tate
   i. Eric Tate:
      1. Lack of justification and reviewable analysis and no citations included
   ii. Sean Denniston – Move to disapprove, Mike Waite – seconded
      1. 13 – disapprove, 0 – approve, 1 - abstention
e. CE2D-74-23   Remove All-Electric Appendix CF   Frederic Zerg
   i. Proponent is not present
   ii. Greg Eades:
      1. This would delete the all-electric appendix
      2. Has reached out to the proponent with no response multiple times
   iii. Steve Rosenstock – Ask if anyone wants to speak in favor of the proposal
   iv. Martha Vangeem – Question:
      1. In this appendix, the heat pumps are required to be sized for the heating load, in her experience heat pumps should be designed for the cooling load
      2. Steve Rosenstock – answer:
         a. You want to make sure that the heat pump has the capacity to heat the higher of the required loads in northern climates
   v. Steve Rosenstock
      1. There might be some states where this will cause issues
   vi. Sean Denniston
      1. Martha's question in relevant to this discussion
      2. The requirement isn't mutually exclusive – you have to make sure that the heat pump doesn't get undersized to resort to back-up electric heat
      3. To Steve's point, I don't see why that is a problem, any adopting authority would check to make sure this wouldn't cause issues with any current legislation in their jurisdiction. This isn't mandatory.
   vii. Mike Waite
      1. This appendix is just about trying to guide all-electric designs to make sure they are efficient. This is just making sure that you are heating efficiently.
   viii. David Goldstein
      1. The reason statement is not valid for new construction. Everywhere in the country, heat pumps have lower carbon emissions than gas. This will save

carbon.
- ix. Steve Rosenstock (in chat):
    1. From DOE: "For 2023, added capacity will come primarily from solar (52%) and wind (13%), while batteries for stored energy will provide 17% of the new capacity"
- x. Courtney – motion to disapprove, Anna McCullough – seconded
    1. Approved: 12-0-2

9. Adjourn