

Code Amendment Proposal Form

For public amendments proposed to the 2021 editions of the International Codes



Instructions: Upload this form and all accompanying documentation. If you are submitting your proposal on a separate sheet, make sure it includes all information requested below.

All proposals must be received by **July 23, 2021**.

CONTACT INFORMATION

Name: Taylor Roberts **Date:** 7-23-2021
Phone: 970-208-7917 **E-mail:** troberts@group14eng.com
Organization or Representing Self: Group14 Engineering

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Signature:

AMENDMENT PROPOSAL

Please use a separate form for each proposal.

- 1) Code(s) associated with this proposal. Please use acronym: IECC
 If you submitted a separate coordination change to another code, please indicate which code: _____

<u>Acronym</u>	<u>Code Name</u>	<u>Acronym</u>	<u>Code Name</u>
DBC-AP	Denver Building Code–Administrative Provisions	IFC	International Fire Code
DBC-xxx	Denver Building Code–xxx (code) amendments (e.g., DBC-IBC, DBC-IEBC)	IFGC	International Fuel Gas Code
IBC	International Building Code	IRC	International Residential Code
IEBC	International Existing Building Code	IMC	International Mechanical Code
IECC	International Energy Conservation Code	IPC	International Plumbing Code
		DGC	Denver Green Code

- 2) Please check here if a separate graphic file is provided:
Graphics may also be embedded within your proposal below.
- 3) Use this template to submit your proposal or attach a separate file, but please include all items requested below in your proposal. The only formatting needed is **BOLDING**, ~~STRIKEOUT~~ AND UNDERLINING. Please do not provide additional formatting such as tabs, columns, etc., as this will be done by CPD.

Code Sections/Tables/Figures Proposed for Revision:
 C202 (new), C401.2 (new), C407.2

Note: If the proposal is for a new section, indicate (new).

Proposal:
C401.2.1 International Energy Conservation Code. Commercial buildings shall comply with one of the following:

1. Prescriptive Compliance. The Prescriptive Compliance Option requires compliance with Sections C402 through C406 and C408.

2. Total Building Performance. The Total Building Performance Option requires compliance with Section C407 or Appendix PT.

Appendix PT
Modeling to a Performance Target

PT101 Scope. This section establishes criteria for demonstrating compliance utilizing a modeled performance target.

PT101.1 Relationship to Energize Denver. The requirements of this section are intended to support the *buildings'* future compliance with the requirements of the Energize Denver Building Energy Performance Requirements when the *building* is operated efficiently.

PT102 Mandatory requirements. *Buildings* complying with this appendix shall comply with section C407.2.

PT103 Modeled Performance target. Projects of the types listed in Table PT103 shall be permitted to demonstrate compliance based on a modeled performance target. The modeled performance target shall be calculated in accordance with this appendix. The *pEUI* of the *building* shall be less than or equal to the values in Table PT103. For *buildings* with multiple occupancy types, the modeled performance target shall be a weighted average of the floor area of each occupancy type.

PT103.1 Modeling procedures. The *pEUI* of the proposed design shall be calculated utilizing the energy modeling procedures of Appendix G of ASHRAE 90.1-2019 for proposed building performance as modified by the “Denver Modeling Rules and Procedures” document available from the Denver Community Planning and Development.

TABLE PT103
MODELED PERFORMANCE TARGETS

<u>Building Type</u>	<u>Modeled Performance Target (kbtu/sf/yr)</u>
<u>Apartment (R-2)</u>	<u>38</u>
<u>Hotel (R-1)</u>	<u>55</u>
<u>Office (Group B)</u>	<u>43</u>
<u>Retail</u>	<u>39</u>
<u>Restaurant/Bar</u>	<u>175</u>
<u>Parking garages</u>	<u>3</u>

PT104 Documentation. Permit submittals shall include a report documenting that the proposed design has annual energy use less than or equal to the energy target required in Section PT103.1. The compliance documentation shall include the information identified in the *Denver Modeling Rules and Procedures*.

PT105 Renewable Energy. The reduction in energy of the proposed design associated with on-site renewable energy is limited to 10% when following the Fixed Performance Target.

PT106 Excluded Energy Use. Energy used for data centers, manufacturing and EV charging equipment shall be permitted to be excluded from the total *pEUI* of the building provided the load is metered separately from the rest of the *building* loads.

Note: Show the proposal using ~~strikeout~~, underline format. At the start of each section, give one of the following instructions:

- Revise as follows:
- Add new text as follows:
- Delete and substitute as follows:
- Delete without substitution:

Supporting Information:

- **Purpose:** To align new construction energy compliance metrics with Energize Denver to help meet Denver’s carbon reduction goals and remain on track for Denver’s energy savings goals.
- **Reasons:** Projects can meet Denver energy code without meeting the necessary EUI to meet Energize Denver. This amendment would align Energize Denver and the Denver Energy Code.
- **Substantiation:** The 2020 City of Boulder Energy Conservation Code Section C407.3.2 has a fixed performance target pathway. Energize Denver is setting 2030 target EUI’s that buildings have to perform to. It makes sense to align the energy code with Denver’s existing building targets so that buildings comply with the 2030 targets and do not have to invest more later to meet the targets or pay penalties.
- **Bibliography:** Include a bibliography when substantiating material is associated with the amendment proposal. The proponent shall make the substantiating materials available for review.

Referenced Standards:

Note: List any new referenced standards that are proposed to be referenced in the code.

Impact:

Note: Discuss the impact of this proposal in this section AND indicate the impact of this amendment proposal for each of the following:

- The effect of the proposal on the cost of construction: Increase Reduce No Effect
- The effect of the proposal on the cost of design: Increase Reduce No Effect
- Is the proposal more or less restrictive than the I-codes: More Less Same

Departmental Impact: (To be filled out by CPD staff)

Note: CITY STAFF ONLY. Discuss the impact of this proposal in this section AND indicate the impact of this amendment proposal for each of the following:

- The effect of the proposal on the cost of review: Increase Reduce No Effect
- The effect of the proposal on the cost of enforcement/inspection: Increase Reduce No Effect