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**.

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**CONTACT INFORMATION**

Name: 
Phone: 
Organization or Representing Self: 
Date: 
E-mail: 

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**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: __________________________

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Code Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBC-xxxx</td>
<td>Denver Building Code–xxxx (code) amendments (e.g., DBC-IBC, DBC-IEBC)</td>
</tr>
<tr>
<td>IBC</td>
<td>International Building Code</td>
</tr>
<tr>
<td>IEBC</td>
<td>International Existing Building Code</td>
</tr>
<tr>
<td>IECC</td>
<td>International Energy Conservation Code</td>
</tr>
</tbody>
</table>

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:**

**C404.10 Water heating equipment** *(Add new section)*

**Proposal:**
Add new sections as follows:

Effective January 1st, 2024: Permit applications submitted to the Agency after January 1st, 2024, shall comply with section C404.10.

C404.10 Water heating equipment. Fossil fuel and electric resistance instantaneous and storage water heating equipment shall not be used to provide service hot water.

Exceptions

1. Resistance heating elements integrated into heat pump water heating equipment.
2. Electric resistance elements used for recirculation loop temperature maintenance.
3. Electric storage water heaters with a rated water storage volume no greater than 20 gallons.
4. Instantaneous electric water heaters located within 10 feet of the point of use.
5. Hot water storage tanks without electric resistance or fossil-fuel heating elements.
6. Electric resistance equipment where not less than 100 percent of the annual service water-heating requirement is provided by an on-site renewable energy system not used to meet any other provision of this code.
7. Water heating systems that serve end-uses that require water temperature of 141°F (55°C) or hotter.
8. Electric resistance storage water heating equipment in buildings where not less than 75% of the annual service water heating requirement is met by a solar thermal system.
9. Buildings that comply with Section C407 or Appendix ET.
10. Replacement of gas-fired storage water heaters or instantaneous water heaters that comply with section C503.4.1.

Supporting Information:

Reference to Energize Denver

(3) When a storage water heater or instantaneous water heater is proposed to be replaced, it shall be replaced with an electric water heater.

(4) The electrification requirements of subsections (c)(1) – (3) above may be met by a heat pump or by electric resistance space or water heating equipment. If the electrification requirements are met by electric resistance space or water heating equipment, then the system shall be provided with an onsite renewable energy system sized to provide not less than 100 percent of the annual energy use of the electric resistance space or water heating equipment, with the following exceptions: an onsite renewable energy system is not required where heat pumps are not available for that system type, or where new electric resistance equipment is replacing existing electric resistance equipment. An onsite renewable energy system used to comply with this section shall not be used to meet any other regulatory requirement.

Purpose:
Move Denver towards its community-driven climate goals, health goals, and affordability goals through the use of clean, highly-efficient, cost-effective, and all-electric technologies.

Reason and Substantiation:
Bibliography:
Pragmatists for Clean Air, 2021, https://pragmatistsforcleanair.org/progress

Referenced Standards:
N/A

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