

# 2024 IECC

NBI has submitted proposals into the ICC process to advance the 2024 IECC. The proposed amendments cover a wide range of measures and improve the code by adding additional efficiency, clarifying requirements, and creating greater flexibility for code users and local jurisdictions. Learn more at [newbuildings.org/code\\_policy/2024-iecc-national-model-energy-code-base-codes](https://newbuildings.org/code_policy/2024-iecc-national-model-energy-code-base-codes).

## **Code Change Title:** Additional Efficiency Credits for Existing Buildings **CEPI-217-21**

**Summary:** This proposal adds a requirement that additions and large alterations achieve a minimum level of points from C406 through the addition of a new Section C506.

### **Add new text as follows:**

**C502.2.7.1 Additional energy efficiency credits.** *Additions shall achieve a total of 10 credits in accordance with Section C506. Alterations to the existing building that are not part of an addition, but permitted with an addition, may be used to achieve the required credits.*

#### **Exceptions:**

1. Buildings in Utility and Miscellaneous Group U, Storage Group S, Factory Group F, High-Hazard Group H
2. Additions less than 1,000 ft<sup>2</sup> and less than 50% of existing floor area.
3. Additions that do not include the addition or replacement of equipment covered in Section C403.3 or C404.2 that achieve a total of 5 credits.
4. Additions that do not contain conditioned space that achieve a total of 5 credits.
5. Buildings in Residential Group R and Institutional Groups I in climate zones 3C, 4B, 4C, 5C that achieve a total of 5 credits
6. Where the addition alone or the existing building and addition together comply with Section C407

### **Add new text as follows:**

**C503.7 Additional energy efficiency credits.** *Alterations shall achieve a total of 5 credits in accordance with Section C506.*

#### **Exceptions:**

1. Alterations that require compliance with only one of: C402.1, C403.3, C404.2, or C405.3.
2. Alterations that are part of an addition complying with section C502.
3. Alterations that comply with Section C407.

**Add new text as follows:**

**C506.1 General.** Where required in Section C502 or C503, credits shall be achieved from Tables C406.1 (1) through C406.1 (5) where the table is selected based on the use group of the building and from credit calculations as specified in relevant subsections of Section C406. Where a building contains multiple use groups, credits from each use group shall be weighted by floor area of each group to determine the weighted average building credit. Credits from the tables of calculation shall be achieved where a building complies with one or more of the following:

1. More efficient HVAC performance in accordance with Section C406.2.
2. Reduced lighting power in accordance with Section C406.3.
3. Enhanced lighting controls in accordance with Section C406.4.
4. On-site supply of renewable energy in accordance with Section C406.5.
5. Provision of a dedicated outdoor air system for certain HVAC equipment in accordance with Section C406.6.
6. High-efficiency service water heating in accordance with Section C406.7.
7. Enhanced envelope performance in accordance with Section C406.8.
8. Reduced air infiltration in accordance with Section C406.9
9. Where not required by Section C405.12, include an energy monitoring system in accordance with Section C406.10.
10. Where not required by Section C403.2.3, include a fault detection and diagnostics (FDD) system in accordance with Section C406.11.
11. Efficient kitchen equipment in accordance with Section C406.12.

*Section C406 does not currently apply to additions and alterations to existing buildings. This is a significant missed opportunity, particularly in light of the emergence of Building Performance Standards. This proposal creates a new Section C506 that allows the additional efficiency credits from C406 to be applied to additions and alterations.*