

ANSI/ASHRAE/ICC/USGBC/IES Addendum bl to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017

Standard for the Design of High-Performance Green Buildings

Except Low-Rise Residential Buildings

The Complete Technical Content of the International Green Construction Code®

Approved by ASHRAE and the American National Standards Institute on July 6, 2020; by the International Code Council on June 1, 2020; by the U.S. Green Building Council on June 3, 2020; and by the Illuminating Engineering Society on July 1, 2020.

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ASHRAE obtains consensus through participation of its national and international members, associated societies, and public review.

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FOREWORD

Addendum bl clarifies the relationship between Standard 90.1, Appendix G, and Standard 189.1, Appendix C, and verifies that these modeling rules apply to Sections 7.5.1, 7.5.2, and 7.5.3. The addendum also adds language to Normative Appendix C that clarifies how on-site nonrenewable energy generation and combined heat and power systems are modeled for performance calculations.

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~strike through~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum bl to Standard 189.1-2017

Modify Section 7.5 as shown. Text that is not shown is unchanged. (Note: This addendum incorporates changes made previously by Addendum k.)

7.5 Performance Option. Buildings shall comply with Sections 7.5.1, 7.5.2, and 7.5.3 using the baseline definition and modeling procedures as defined in Standard 90.1, Appendix G, and modified by Normative Appendix C of this standard.

7.5.1 Annual Energy Cost. The proposed building performance cost index (PCI) shall be equal to or less than the target performance cost index target, as determined from the following equation:

$$PCI_{target} = \frac{BBUEC + (BBREC \times BPF) \times (1 - RF)}{BBUEC + BBREC}$$

[. . .]

Modify Appendix C as shown.

C1.5 Modeling Nonrenewable On-Site Generation and Combined Heat and Power Systems. Nonrenewable on-site generation and combined heat and power systems shall be simulated as follows:

- a. **Baseline building performance.** The baseline building shall not include nonrenewable on-site generation or nonrenewable combined heat and power systems.
- b. **Proposed building performance.** For proposed building designs that include nonrenewable on-site generation or nonrenewable combined heat and power systems, the system shall be modeled as designed, including consumption of all pumps and auxiliary equipment required for operation of the system, in accordance with the requirements of Section C1.4.

**POLICY STATEMENT DEFINING ASHRAE'S CONCERN
FOR THE ENVIRONMENTAL IMPACT OF ITS ACTIVITIES**

ASHRAE is concerned with the impact of its members' activities on both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted Standards and the practical state of the art.

ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the Standards and Guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive Technical Committee structure, continue to generate up-to-date Standards and Guidelines where appropriate and adopt, recommend, and promote those new and revised Standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

ASHRAE will take the lead with respect to dissemination of environmental information of its primary interest and will seek out and disseminate information from other responsible organizations that is pertinent, as guides to updating Standards and Guidelines.

The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

ASHRAE's primary concern for environmental impact will be at the site where equipment within ASHRAE's scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.

Standard 189.1 and the International Green Construction Code

Standard 189.1 serves as the complete technical content of the International Green Construction Code® (IgCC). The IgCC creates a regulatory framework for new and existing buildings, establishing minimum green requirements for buildings and complementing voluntary rating systems. For more information, visit www.iccsafe.org.

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As an industry leader in research, standards writing, publishing, certification, and continuing education, ASHRAE and its members are dedicated to promoting a healthy and sustainable built environment for all, through strategic partnerships with organizations in the HVAC&R community and across related industries.

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