



**BSR/ASHRAE/IES Addendum cg
to ANSI/ASHRAE/IES Standard 90.1-2022**

Public Review Draft

Proposed Addendum cg to Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low- Rise Residential Buildings

**First Public Review (March 2025)
(Draft Shows Proposed Changes to Current Standard)**

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at www.ashrae.org/standards-research--technology/public-review-drafts and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at www.ashrae.org/bookstore or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, www.ashrae.org.

The appearance of any technical data or editorial material in this public review document does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, process, procedure, or design, and ASHRAE expressly disclaims such.

© 2025 ASHRAE. This draft is covered under ASHRAE copyright. Permission to reproduce or redistribute all or any part of this document must be obtained from the ASHRAE Manager of Standards, 180 Technology Parkway NW, Peachtree Corners, GA 30092. Phone: 404-636-8400, Ext. 1125. Fax: 404-321-5478. E-mail: standards.section@ashrae.org.

ASHRAE, 180 Technology Parkway NW, Peachtree Corners, GA 30092

© 2025 ASHRAE

This draft is covered under ASHRAE copyright. The appearance of any technical data or editorial material in this publication document does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, process, procedure, design or the like and ASHRAE expressly disclaims such. Permission to republish or redistribute must be obtained from the MOS.

(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

FOREWORD

Appendix G may be used to quantify performance that exceeds the requirements of this standard. Previous versions of the standard (2013 and earlier) provided guidance as to calculating the percentage improvement against this standard, but this guidance was removed when the stable baseline approach was introduced in 2016. Several third-party requirements still call for minimum percentage improvements above minimum performance. Feedback from users indicates that the guidance would be helpful and reduce confusion.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striketrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]

Addendum cg to 90.1-2022

Revise Appendix G, Section G1.2 Performance Rating Calculation, as follows:

G1.2.3 Calculation of Percentage Improvement. Where quantifying performance that exceeds the requirements of Standard 90.1, the percentage improvement of the *proposed design* compared to the current requirements of the standard shall be calculated as follows:

$$\text{Percentage improvement} = 100 \times (\text{PCI}_t - \text{PCI}) / \text{PCI}_t$$

If addendum BI were to be published, revise Appendix G, Section G1.2 Performance Rating Calculation, as follows:

G1.2.3 Calculation of Percentage Improvement. Where quantifying performance that exceeds the requirements of Standard 90.1, the percentage improvement of the *proposed design* compared to the current requirements of the standard shall be calculated as follows:

$$\text{Percentage improvement} = 100 \times (\text{PEI}_{\text{site},t} - \text{PEI}_{\text{site}}) / \text{PEI}_{\text{site},t}$$