

Public Review Draft

Proposed Addendum bl to Standard 189.1-2017

Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings

First Public Review (March 2020)
(Draft Shows Proposed Changes to Current Standard)

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Foreword

This addendum 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 non-renewable energy generation and combined heat and power systems are modeled for performance calculations.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (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 bl to 189.1-2017

Modify Section 7.5 as follows. Text that is not shown is unchanged.

7.5 Performance Option

Buildings shall comply with 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, as modified by Appendix C.

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 follows:

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

- a. Baseline Building Performance. *The baseline building shall not include non-renewable on-site generation or non-renewable combined heat and power systems.*

b. *Proposed Building Performance.* For proposed building designs that include non-renewable on-site generation or non-renewable 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 C1.4.