

ADDENDA

**ANSI/ASHRAE/IES Addendum a to
ANSI/ASHRAE/IES Standard 90.2-2024**

High-Performance Energy Design of Residential Buildings

Approved by ASHRAE Standards committee on February 6, 2026; by the Illuminating Engineering Society on September 5, 2025; and by the American National Standards Institute on February 27, 2026.

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FOREWORD

Addendum a introduces energy monitoring requirements to Standard 90.2, aligning it with similar provisions found in commercial energy standards and codes such as ANSI/ASHRAE/IES Standard 90.1 and IECC. Standard 90.2 should include energy monitoring requirements to maintain its position as a leading residential energy performance standard.

Energy monitoring provides several benefits for occupants:

- *It allows them to view energy usage before receiving their energy bill, enabling proactive measures to address any issues and avoid unexpected charges.*
- *It helps in identifying and reducing unnecessary energy consumption, leading to cost savings.*
- *It promotes energy awareness and encourages more efficient energy use habits.*

The proposal sets a threshold for energy monitoring at larger than 2,300 square feet of conditioned floor area. This size is chosen because larger homes typically consume more energy, and 2,300 square feet is the average size of a single-family home in the U.S.

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

Addendum a to Standard 90.2-2024

Modify the standard as shown.

7.6 Other Systems

[. . .]

7.6.8 Energy Monitoring. Energy monitoring devices shall be installed in new dwelling units larger than 2300 ft² (214 m²) of conditioned floor area to monitor at least two of the following separate energy load types:

- Permanently installed heating
- Permanently installed cooling
- Permanently installed interior general lighting
- Permanently installed exterior general lighting
- Refrigeration
- Clothes drying
- Dishwashing
- Cooking
- Water heating
- EV charging

The monitored load types in Section 7.6.8(a) through (j) shall be allowed to include up to 10% of related or unrelated loads.

7.6.8.1 Recording and Reporting. The energy use for all loads monitored to comply with Section 7.6.8 shall be recorded a minimum of every 30 minutes and reported at least hourly, daily, monthly, and annually. Energy use data shall be graphically displayed on an app or somewhere within the dwelling unit. The data shall be maintained for a minimum of 36 months.

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.

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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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