



U.S. Department of Energy
Energy Efficiency and Renewable Energy



Building Energy Codes

What's New - ASHRAE

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ASHRAE Standard 90.1-2004

- DOE Determination will be out this fiscal year.
- Next version is ASHRAE Standard 90.1-2007 and a variety of addenda will be out for public review in the near future at

<http://www.ashrae.org/template/TechnologyLinkLanding/category/1634;jsessionid=baa7BXMTqLxJyr>

90.1-2004 Envelope

- Several envelope addenda out for public review
 - New opaque envelope requirements
 - New vertical fenestration requirements (modeled on IECC)
 - Move climate data to Standard 169

- Continuous air barrier requirement voted out for Independent Substantive Change

➤ Still to come

- New metal building requirements
 - Committee working with MBNA
- New skylight requirements
 - Committee considering proposal from Heschong-Mahone Group to allow more skylight area in big box retail if daylighting controls are present and possibly to require skylights and daylighting control in big box retail

90.1-2004 Mechanical

- Several mechanical addenda out for public review
 - Revised gas- and oil-fired boiler efficiency requirements
 - Additional footnote mentioning interrupted or intermittent ignition requirements for warm air furnaces and unit heaters

- Resolved comments on fan power limitation addenda and sent out for second public review

90.1-2004 Lighting

- Resolved public review comments on critical revision of the additional power allowances section in 90.1 Lighting

- Several additional lighting addenda out for public review
 - Clarification of retail lighting allowances
 - Adding occupancy sensor requirements to hotel/motel bathroom lighting

ASHRAE and Sustainability

- ASHRAE's Sustainability Roadmap

http://www.ashrae.org/content/ASHRAE/ASHRAE/ArticleAltFormat/200621485921_886.pdf

- ASHRAE's "green commercial building" standard - BSR/ASHRAE/USGBC/IESNA Standard 189p

<http://www.ashrae.org/template/AssetDetail/assetid/50140>

See Green Building Track

The ASHRAE Promise – A Sustainable Future

- The title of incoming ASHRAE President Terry Townsend's Assignments to ASHRAE Councils and Committees

http://www.ashrae.org/content/ASHRAE/ASHRAE/ArticleAltFormat/200662215047_986.pdf

Excerpts from “The ASHRAE Promise – A Sustainable Future”

- Standard 90.1-2010 to be 30% more stringent than 90.1-2004
- Improve Standard 90.1 form and format for usability (via focus group of users)
- Streamline composition of Standard 90.1 structure
- Develop Standard 90.1-2010 performance-based having same stringency requirement as Standard 90.1-2010 prescriptive standard

What's New – Tax Credits

The guidance for commercial buildings is finally out!

➤ IRS

<http://www.irs.gov/pub/irs-drop/n-06-52.pdf>

➤ DOE

http://www.eere.energy.gov/buildings/info/tax_credit_2006.html

Summary of Commercial Provisions

- Basis ASHRAE Standard 90.1-2001
- Reduction – 50%
- Tax deduction for cost of energy-efficient property installed up to maximum of \$1.80 per square foot
- Partial deduction of \$0.60 per square foot would be provided for building subsystems such as envelope, lighting, and HVAC.