

# PREFACE

This document is the *Vermont Guidelines for Energy Efficient Commercial Construction*. It is an excerpt of the energy provisions from the 2004 Supplement to the *International Energy Conservation Code* amended to suit Vermont's climate and special needs.

The Federal Energy Policy Act of 1992 (EPACT) directed states to adopt statewide energy standards that meet or exceed the requirements of *ASHRAE/IESNA Standard 90.1-1989, Energy Efficient Design of New Buildings Except Low-Rise Residential Buildings*. The Vermont Department of Public Service established the Commercial Building Energy Standards (CBES) Working Group in 1999 to develop a statewide commercial building energy code for Vermont. The 2001 *Vermont Guidelines for Energy Efficient Commercial Construction* were the result of the CBES Working Group's initial effort to establish consistent, coordinated statewide minimum commercial building energy standards for Vermont.

The 2005 *Vermont Guidelines for Energy Efficient Commercial Construction* resulted from a CBES Working Group effort to update the 2001 Guidelines based on the 2004 Supplement to the *International Energy Conservation Code* (IECC). The 2005 Guidelines are designed to serve as a statewide commercial building energy code. The Department of Public Service, the CBES Working Group, Efficiency Vermont, the Burlington Electric Department and Vermont Gas support various jurisdictions and organizations in adopting the Commercial Guidelines and provide technical support and training throughout the state.

The intent of the Guidelines is to establish minimum energy use and application criteria. The Guidelines apply to all commercial construction as defined in the IECC 2004 Supplement as amended herein. The format of the Guidelines is designed to complement the Vermont Fire Prevention and Building Code.

Substantive amendments were developed to address issues that are specific to Vermont including:

- Climate conditions specific to Vermont;
- Building envelope requirements;
- Bringing the stringency of the IECC in line with ASHRAE/IESNA Standard 90.1-2004, and
- Additional Vermont Amendments, not found in IECC, on:
  - Electric motor efficiency levels;
  - Power system and transformer criteria;
  - Limitations on the use of electric resistance space heating and domestic hot water heating; and
  - Under-slab insulation levels.

**Additional information is available on the CBES project website at:**

[http://publicservice.vermont.gov/energy-efficiency/ee\\_commstandards.html](http://publicservice.vermont.gov/energy-efficiency/ee_commstandards.html)

**For assistance contact:**

- Vermont Department of Public Service; (800) 642-3281 (in-state) or (802) 828-2811
- Burlington Electric Department; (802) 658-0300
- Vermont Gas; (802) 863-4511
- Efficiency Vermont; (888) 921-5990

**Sources:**

To order a copy of the **2005 Vermont Guidelines for Energy Efficient Commercial Construction**, Copyright 2005, International Code Council, Inc., First Printing contact:

**International Codes Council**

4051 West Flossmoor Road  
Country Club Hills, IL 60478-5795  
Phone: (888) 422-7233  
<http://www2.iccsafe.org/vermont/>

To order a copy of **ASHRAE/IESNA Standard 90.1-2004, Energy Standard for Buildings Except Low-Rise Residential Buildings**, Copyright 2004, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. contact:

ASHRAE Customer Service  
1791 Tullie Circle, NE  
Atlanta, GA 30329-2305  
(800)-527-4723  
E-mail: [orders@ashrae.org](mailto:orders@ashrae.org)  
Web site: [www.ashrae.org](http://www.ashrae.org)

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## **Marginal Markings**

Solid vertical lines in the margins within the body of the code indicate a technical change from the requirements of the first printing of the *2005 Vermont Guidelines for Energy Efficient Commercial Construction*. Deletion indicators in the form of an arrow (➡) are provided in the margin where an entire section, paragraph, exception or table has been deleted or an item in a list of items or a table has been deleted.