



Buildings for the 21st Century

Buildings that are more energy-efficient, comfortable, and affordable...that's the goal of DOE's Office of Building Technology, State and Community Programs (BTS). To accelerate the development and wide application of energy efficiency measures, BTS:

- Conducts R&D on technologies and concepts for energy efficiency, working closely with the building industry and with manufacturers of materials, equipment, and appliances
- Promotes energy/money saving opportunities to both builders and buyers of homes and commercial buildings
- Works with State and local regulatory groups to improve building codes, appliance standards, and guidelines for efficient energy use
- Provides support and grants to States and communities for deployment of energy-efficient technologies and practices



BUILDING ENERGY CODES



TECHNICAL ASSISTANCE TO STATES: COMMERCIAL BUILDING CODE ADOPTION, IMPLEMENTATION, AND TRAINING

The Building Energy Codes Program helps States implement building energy codes based on the International Energy Conservation Code (IECC) or ANSI/ASHRAE/IESNA Standard 90.1 requirements.

The Program also provides products that make it "easy" to demonstrate and enforce code compliance. Program services also include customized products and training to meet State and local needs. Services may require the U.S. Department of Energy's (DOE) approval and State co-funding may also be required.

Q What products are available?

DOE offers several products that States can distribute to design professionals, builders, and code officials for easy code compliance and enforcement. *COMcheck-EZ™* includes manuals and software to quickly and easily determine compliance with the ASHRAE standards or the IECC. Training materials are also available.

For those that prefer the more complicated, but more flexible, whole-building performance approach, which allows trade-offs between the major sections of the code, *COMcheck-Plus* can be used to show compliance.

Q How can I determine if a proposed code is beneficial for my state and what are the cost implications?

With DOE approval, BECP can

- ✓ Evaluate and comment on proposed statewide energy codes
- ✓ Estimate the first costs of selected commercial building prototypes to meet code requirements
- ✓ Estimate potential energy cost savings for selected commercial building prototypes complying with the code requirements.

Q What training resources are available?

Training materials are available for the 1998 IECC, 2000 IECC, and the 2001 IECC. Training materials are also available for the 90.1-1989, 90.1-1999 and 90.1-2001. These include PowerPoint slides and course notes.

COMcheck-EZ™ training materials include PowerPoint slides, course notes, and a case study.

For more information about the DOE Office of Building Technology, State and Community Programs, contact:

Energy Efficiency and Renewable Energy Clearinghouse (EREC)
1-800-DOE-3732
www.eren.doe.gov/buildings

Building Energy Codes Homepage:
www.energycodes.gov

For more information on COMcheck-EZ™ contact:

Ronald B. Majette
Phone: **202-586-7935**
FAX: 202-586-4617
Email:
Ronald.Majette@ee.doe.gov

The IECC can be obtained from the Council of American Building Officials by calling **703-931-4533**.

ASHRAE Standards can be ordered from ASHRAE by calling **(800) 527-4723**.

COMcheck-EZ™, a companion compliance software package, can be downloaded directly from the web at:
www.energycodes.gov/comcheck/



Printed with renewable – source ink on paper containing at least 50% wastepaper, including 20% post consumer waste.

July 2002

A computer-based training tool is available to train users on the COMcheck-EZ™ software. This interactive multimedia tool is available on CD with the COMcheck-EZ™ software and includes text, full-color photographs and illustrations, and video and audio narration.

A video, *An Overview of Chapter 7 of the International Energy Conservation Code*, was developed in conjunction with International Conference of Building Officials (ICBO) and North American Insulation Manufacturers Association (NAIMA), and provides information on the newest provisions of the International Code Council (ICC) IECC.

Standard 90.1-1999 The Next Generation Commercial Building Energy Standard, a video of a satellite broadcast, was produced in conjunction with ASHRAE and IESNA.

Standard 90.1-1999 In More Detail A follow-on satellite broadcast, *Standard 90.1 In More Detail*, was produced in conjunction with ASHRAE and IESNA and is also available on video.

Energy Efficiency: The New Design Reality, developed in collaboration with the American Institute of Architects, is a short video overview of ANSI/ASHRAE/IESNA Standard 90.1-1989 and its requirements.

A COMcheck-EZ™ Train-the-Trainer Workshop is available on commercial standards and on how to develop their own commercial code implementation classes.



What about other information or assistance?

DOE's Building Energy Codes Program provides other information and reference data, including:

State energy code information -

- ✓ State Primary Technical Contact
- ✓ State Agency/Office Head
- ✓ Current Status
- ✓ Adoption Process
- ✓ Compliance Methods
- ✓ Enforcement
- ✓ Background/History
- ✓ SEP Grant History
- ✓ BECP Technical Assistance History
- ✓ Residential Construction Data
- ✓ Commercial Construction Data
- ✓ Commercial Building Weather Data (*heating degree-days, cooling degree-days*)

Many items are distributed to States at no cost. In addition, staff members are available to provide testimony, attend meetings and make presentations.



How can I get assistance?

To obtain these products and services, contact a specialist, or receive the Program's newsletter, *Setting the Standard*. Visit the BECP web site at www.energycodes.gov.