



NORTHEAST ENERGY EFFICIENCY PARTNERSHIPS

VT Energy Codes *Collaborative? Coalition ?*

May 1, 2015

FOR TODAY'S DISCUSSION



- Welcome and Introductions
- What is an Energy Code Collaborative
- Mission
- Responsibilities
- Goals and priorities
- Future meeting schedule
- Short takes



NORTHEAST ENERGY EFFICIENCY PARTNERSHIPS



MISSION

Accelerate the efficient use of energy in the Northeast and Mid-Atlantic Regions.

APPROACH

Overcome barriers to efficiency through *Collaboration, Education & Advocacy*

VISION

Transform the way we think about and use energy in the world around us.



One of six Regional Energy Efficiency Organizations (REEOs) designated by U.S. DOE to support state efficiency policies

INTRODUCTIONS



- Name, organization
- What are you hoping to get out of the meeting / collaborative ?



WHAT IS AN ENERGY CODES COLLABORATIVE?



Bringing together **key stakeholders** to support common interests around energy code adoption and compliance.

In a number of states, they have already proven successful for creating an open dialogue and clearinghouse for ideas and conversation concerning energy codes.



VT COMPLIANCE PLAN



- Gap Analysis completed
- Approach for achieving **90% compliance** by February 1, 2017

Advise on what can realistically be implemented and to prioritize and carry out the tasks necessary to ensure greater compliance



Vermont Energy Code Compliance Plan
Achieving 90% Compliance by 2017

by
Energy Futures Group
Cx Associates
Building Codes Assistance Project
Navigant Consulting
Optimal Energy

AROUND THE REGION



- Delaware
- New Hampshire
- Pennsylvania
- Connecticut

Topic specific/ modified

- Maine
- Rhode Island

Focus

- Adoption
- Compliance plans
- Resource development
- Rating & Disclosure
- Trainings
- Support letters DOE funding

Delaware 2012 IECC FAQ

These are answers to commonly asked questions concerning the 2012 International Energy Conservation Code, the 2012 IECC. Please consult the code for more complete answers.

Who can I call if I have an energy code question?
In Delaware, the IECC has been mandated by legislation and the Division of Energy & Climate is responsible for adoption and enforcement issues, the local building department is responsible for enforcement.

Where can I get a copy of the code?
You can purchase a copy of the code at <http://shop.nep.org>. You can also purchase a copy of the code at <http://www.iecc.com>.

How can I meet the ventilation requirement?
First calculate the volume of air that must be supplied in your house. (See Chart) Then the most common way to supply that air is to install a high efficiency fan in a bathroom with a controller to maintain your calculated rate. You can also install a duct with an electronic damper from an outside wall to your return duct in your HVAC system. Along with the system fan, the damper is set up to deliver the correct amount of air. Or you may choose to install a separate HRV or ERV system with its own ducts.

Why am I required to ventilate my house after I just sealed it up?
Think of air sealing and ventilation as two parts of the same strategy. Air sealing saves energy and increases comfort, while ventilation makes sure that the right amount of air is passing through the house. Air sealing saves more energy than ventilation uses.

What is the light bulb requirement in the new code?
You need to install high efficiency bulbs - LED or CFL - in either 75% of the bulb sockets in the house, or in 75% of the fixtures. This allows for the use of a multi-bulb fixture that cannot take these high efficiency bulbs.

Some items in the code are labeled as Mandatory - what does this mean?
Items labeled Mandatory are required, regardless of which of the 3 Compliance Paths you choose.

The code requires an air barrier - what is that?
It is an airtight barrier that completely surrounds the conditioned space. Any cracks, gaps, or holes must be made airtight. The code states that your exterior wall sheathing can be that air barrier, and this is the easiest place to have it, however other surfaces may be used. The only exception is that you are required to install an air barrier on the INSIDE of the insulation behind showers and tubs. This can be as simple as an unbroken layer of air-tight housewrap.

Who is certified to perform the code check?
There is no certification requirement for code check. It is available at <http://www.enr.com>.

Who is certified to complete Simulated Performance Path calculations?
The most common software for this calculation is HERU5.

MISSION



Our MISSION is to facilitate compliance with the State's building energy codes statewide and serve as a reliable and unbiased source for information on building energy codes and code compliance in **Vermont**. We will achieve our mission through a collaborative effort of identified market actors to better coordinate actions and policies affecting energy code compliance, and to identify and prioritize steps needed to achieve full compliance with building energy codes.

RESPONSIBILITIES OF MEMBERS



- Participate!
- Be respectful
 - Forum for discussion
- Targeted outreach
- Support implementation
- Identify opportunities
- Recommend future code updates
- Serves as an authoritative source for code-related information.



GOAL AND PRIORITIES



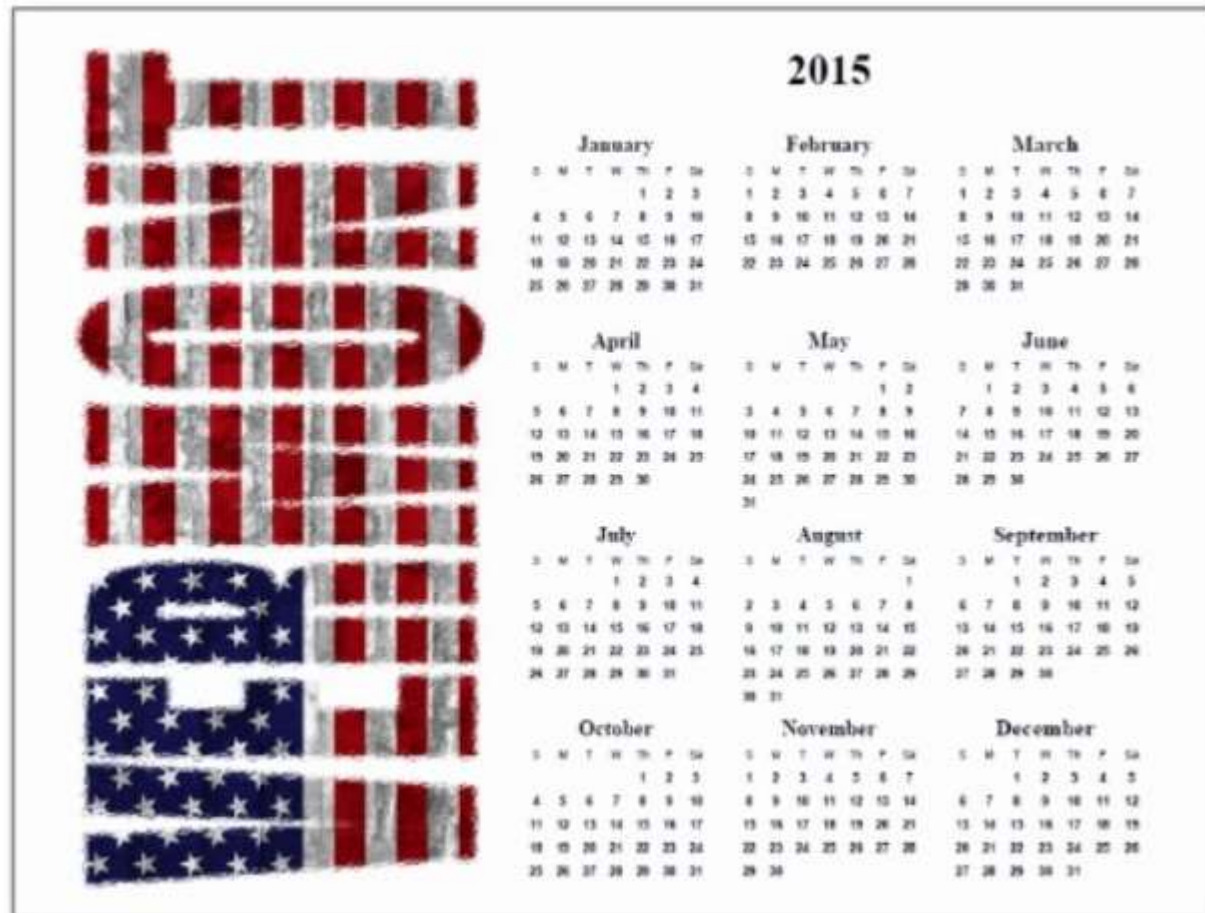
- Do we have the right stakeholders?
 - Who is **missing** from the group?
- What do you want to focus on?
 - Short term / long term?
 - Adoption? Compliance? Enforcement?
 - Residential? Commercial? Multi-family? All?
- What are the current needs?

A screenshot of the website for the New Hampshire Energy Code Collaborative. The page has a dark header with the title "New Hampshire Energy Code Collaborative" in white. Below the header is a navigation menu with three items: "Home", "About the NH Energy Code Challenge", and "About The NH Energy Code Collaborative". The main content area is titled "Collaborative Resources" and includes a greeting "Hello Collaborative Members," followed by a paragraph stating the page's purpose as a hub for resources, meeting minutes, agendas, and other documents. A section titled "Featured Meeting Minutes:" lists three items: "June Meeting – Tuesday, June 25th 2013 – Coming Soon!", "May Meeting – Tuesday, May 28th 2013 – May Meeting Minutes_FINAL APPROVED", and "April Meeting – Tuesday, April 30th 2013 – April Meeting Minutes_FINAL APPROVED".

FUTURE MEETINGS / SCHEDULE



- When do you want to meet?
- Monthly? Bi-monthly or quarterly?
- Location?



SHORT TAKES: RESOURCES



 **Public Service Department**
State of Vermont

PSD Home | About Us | Contact Us | Announcements | Request for Proposals & Info | Public Service Board Website | Site Map

Search

you are at: [Home](#) ▸ [Topics](#) ▸ [Energy Efficiency](#) ▸ [Commercial Building Energy Standards](#)

Commercial Building Energy Standards

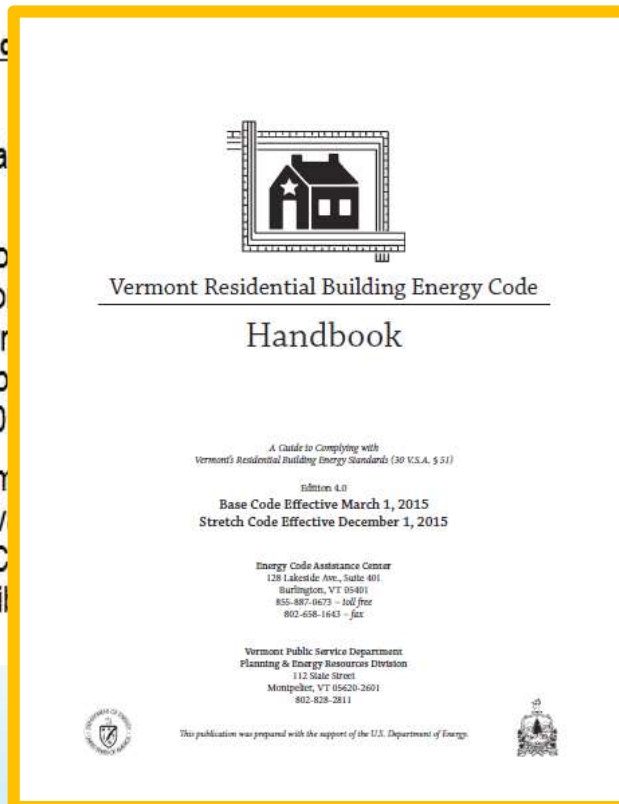
On This Page:

[2015 CBES](#) ▸ [2011 CBES](#) ▸ [Training](#) ▸ [Background](#)

This web page contains information about Commercial Building Energy Standards (CBES) for Vermont.

The CBES has been revised as of November 1, 2015. It applies to construction commenced on or after March 1, 2015. New commercial construction, including building permit has been issued or approved, has the option of complying with either the 2015 or 2011 standards.

Free hard copies of the updated Vermont Residential Building Energy Code Handbook will also soon be available. Electronic copies will also soon be available on our [website](#). Please contact the Energy Code Assistance Center for more information or to request hard copies when they become available.



Standards

2015 and 2011 standards apply to most new construction. Where a building shall have the 2015 standard, it shall also have the 2011 standard.

Free hard copies of the updated Vermont Residential Building Energy Code Handbook will also soon be available. Electronic copies will also soon be available on our [website](#). Please contact the Energy Code Assistance Center for more information or to request hard copies when they become available.

Topics Links

- Electric
- Energy Efficiency
- Renewable Energy
- Natural Gas & Propane
- Telecommunications
- Cable TV
- Water
- Connectivity

Energy Efficiency Links

- EEU Performance Evaluation
- Res. Building Energy Code
- HERS Accreditation
- Energy Savings Resources
- Com. Building Energy Code
- School Energy Management
- Building Life Cycle Cost

- Topics
- Publications, Plans and Reports
- Information for Consumers
- Information for Utilities
- Statutes and Rules
- Dockets

SHORT TAKES: UPCOMING TRAINING



Blower Door Training

Current dates include:

- 5/13/15 - 8:00 AM to 12:00 PM; Gilmore Home in Bomoseen (RSVP: rsvp@gilmorehomecenter.com)
- 5/28/15 - 8:00 AM to 12:00 PM; Wilmington (RSVP contact and exact location will be posted on website soon)

* Effective 12/1/15 Act 250

SHORT TAKES:

CODE ADOPTION & COMPLIANCE TOOLKIT



- Adoption includes links to:
 - Code analyses and comparisons;
 - State amendments and model language;
 - Code case studies (e.g. stretch codes)
 - Code talking points (e.g. non-energy benefits)
 - <http://www.neep.org/sites/default/files/resources/Adoption-Toolkit.pdf>
- Compliance includes links to:
 - Code training materials, FAQs, inspection tools, and field guides;
 - Code compliance assessments;
 - Code case studies (e.g. streamlined permitting)
 - Code talking points (e.g. utility savings attribution)
 - <http://www.neep.org/sites/default/files/resources/Compliance-Toolkit.pdf>



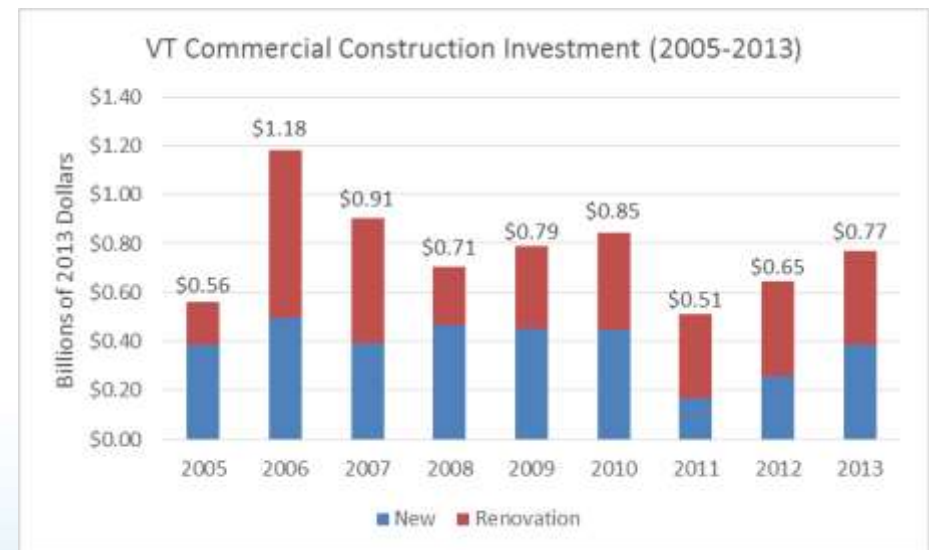
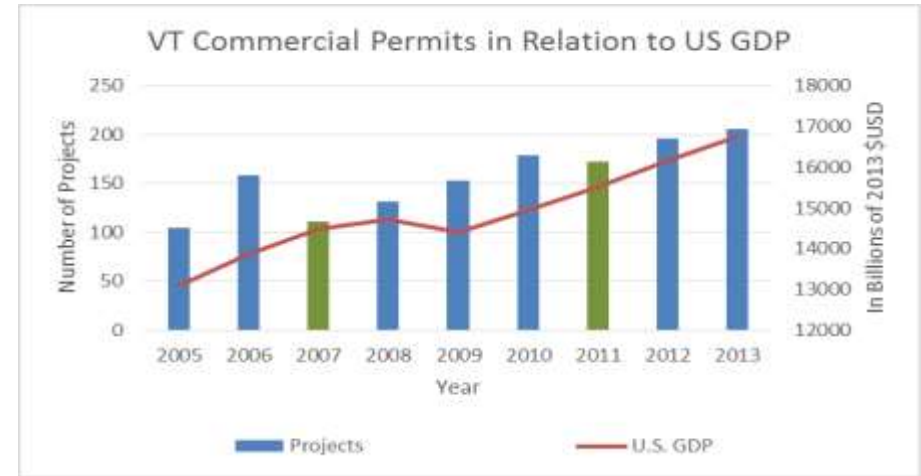
- Private resources: available upon request

ENERGY CODES AND CONSTRUCTION TRENDS WHITE PAPER



This upcoming paper will include:

- Regional and state-specific commercial and residential construction trends
- Analysis of the economic impacts of building code implementation
- Projections for energy cost and GHG emissions savings potentials for states considering enacting the newest energy codes.



Available soon!



Thank you!

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