

CODE ADOPTION TOOLKIT



NEEP's Code Adoption Toolkit is a collection of state, regional, and national resources developed to aid development and adoption of more efficient energy codes. This document includes links to materials such as: code analyses and comparisons; state amendments and model language; and code case studies and talking points for topics such as stretch codes and the non-energy benefits of codes.

This toolkit is updated regularly. Be sure to visit NEEP's [Building Energy Codes](#) page for the latest version, and contact [Darren Port](#) or [Moses Riley](#) with any inquiries.

See also NEEP's [Code Compliance Toolkit](#).

Guidebook Revision Information:

Version	Date	Amendment	Author
1.2	11/18/19	Updates	Bryan Evans

I. NEEP/DOE Introductory Resources

A. [Building Energy Codes for a Carbon Constrained Era: A Toolkit of Strategies and Examples](#)

B. NEEP Regional Web Resources

1. [NEEP Codes Tracker](#)
2. [NEEP Buildings Bulletin Board](#)
3. [NEEP Buildings Blogs](#)

C. [U.S. Department of Energy Code Adoption Toolkit](#)

1. [Adoption Toolkit PDF](#)
2. [Online module](#)

II. Determinations / Analyses

A. Federal Model Code Determinations

1. Residential - IECC

a) *2018 IECC*

(1) [Notice of Preliminary Determination](#)

(a) [Preliminary Energy Savings Analysis](#)

- b) 2015 IECC**
 - (1) [Final Determination](#)
 - (2) [Energy Savings Analysis](#)
 - (3) [Cost-Effectiveness](#)
- c) 2012 IECC**
 - (1) [Final Determination](#)
 - (2) [Energy Savings](#)
 - (3) [Cost-Effectiveness](#)

2. Commercial – IECC

- a) 2018 IECC**
 - (1) [Commercial Scope and Envelope Requirements](#)
- b) 2015 IECC**
 - (1) [Energy Savings and Cost Effectiveness](#)
- c) 2012 IECC**
 - (1) [Cost Savings](#)

3. Commercial - ASHRAE 90.1

- a) ASHRAE 90.1-2016**
 - (1) [Commercial Energy and Cost Analysis Methodology](#)
 - (2) [Final Determination](#)
 - (3) [Energy Savings Analysis](#)
- b) ASHRAE 90.1-2013**
 - (1) [Final Determination](#)
 - (a) [Qualitative Analysis](#)
 - (b) [Quantitative Analysis](#)
- c) ASHRAE 90.1-2010**
 - (1) [Final Determination](#)
 - (a) [Qualitative Analysis](#)
 - (b) [Quantitative Analysis](#)

- (2) [Energy Savings](#)
- (3) [Cost-Effectiveness](#)

B. State-specific analyses

- 1. Residential [Cost-Effectiveness](#)
- 2. [New York 2015 IECC Cost-Effectiveness](#)
- 3. Commercial [Cost-Effectiveness](#) (CT, DE, DC, NJ, NY, RI)

III. Latest Model Code Resources

A. 2015 IECC

1. Energy Rating Index (HERS) Path

a) DOE Resources

- (1) [HERS Index Values Corresponding to Minimal Compliance with the IECC Performance Path](#)

b) RESNET Resources

- (1) [Overview of the ERI Path in the 2015 IECC](#)
- (2) [ERI Performance Path Score Alternatives](#)
- (3) [HERS Index and Energy Codes](#)

B. IgCC

1. [2015 International Green Construction Code](#)
2. [2018 International Green Construction Code](#)

IV. Inter-code Comparisons

A. 2018 IECC Summary of Changes

1. [Key Changes in the 2018 IECC](#)

B. 2015 IECC vs. 2012/2009 IECC

1. [2015 IECC - Summary of Major Proposals](#)
2. [2015 vs. 2012 vs 2009 article – Green Builder Coalition](#)

C. ASHRAE 90.1-2013 vs 90.1-2010

1. NEEP 2015 IECC / ASHRAE 90.1-2013 summary of major changes presentation [please contact NEEP for this resource]

V. State Amendments

1. Connecticut [2018 State Building Code \(2015 IECC\)](#)
2. Delaware
 - a) [2012 IECC \(all residential\)](#)
3. District of Columbia
 - a) [2012 IECC](#)
4. Maine [An Act to Amend the Laws Governing the Maine Uniform Buildings and Energy code](#)
5. Maryland (2018 IECC) [International Energy Conservation Code Information Page](#)
6. Massachusetts
 - a) [2015 IECC - Residential](#)
 - b) [2015 IECC - Commercial](#)
7. New Hampshire (2015 IECC) – [New Hampshire Energy Code](#)
8. New Jersey
 - a) [2018 IECC / ASHRAE 90.1-2016](#)

9. New York
 - a) [2015 IECC / ASHRAE 90.1-2013](#)
10. Pennsylvania (2015 IECC) – [PA Energy Code](#)
11. Rhode Island
 - a) [2015 IECC](#)
12. Vermont (2015 IECC) [Residential Commercial](#)

VI. Stretch Code- Case Studies

1. District of Columbia
 - a) *USGBC: [DC Green Code Case Study](#)*
2. Massachusetts
 - a) *[Stretch Code case study](#)*
 - b) *[MA Electric and Gas Program Administrators: Stretch Code Market Effects Study](#)*
3. Rhode Island
 - a) *[RI IqCC vs. LEED v4 Comparison Checklist](#)*
4. Vermont
 - a) *[Blog: Vermont Stretches for Energy Efficiency](#)*

VII. Socioeconomic Benefits of Energy Codes

- A. IMT: [Non-Energy Benefits of Energy Codes](#)
- B. [ICC: 2015 IECC Makes New U.S. Homes More Efficient](#)

VIII. Misc. / Code Language

- A. Renewable Energy
 1. [Renewable Energy Code Provisions Handout](#)

IX. Energy and Carbon Data

- A. Construction Codes in the Northeast: Myths and Realities of Energy Code Adoption and the Economic Effects – [2018 UPDATE](#)

X. Talking Points