

Energy Codes & Envelopes

Designing for IECC 2012 & ASHRAE 90.1-2010



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Learning Objectives

Objective 1

Develop a general understanding of energy code modifications and associated design implications

Objective 2

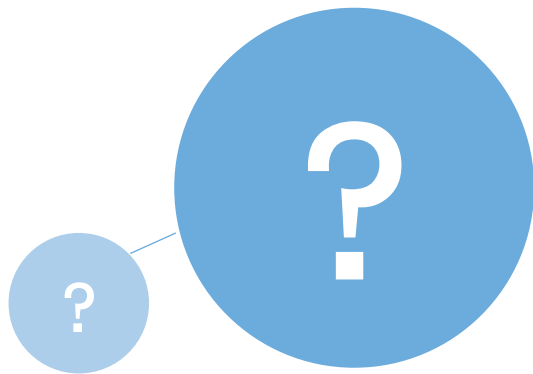
Contrast envelope performance criteria established in IECC 2012 and ASHRAE 90.1-2010 including mandatory provisions and prescriptive requirements

Objective 3

Discuss potential strategies to address new provisions for air barriers, vestibules and daylighting apertures

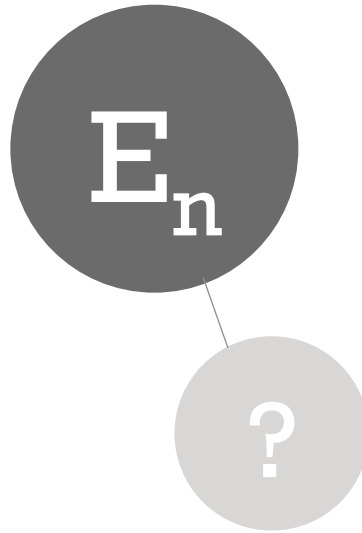
Objective 4

Recognize important factors to consider when deciding on an energy code compliance path



Legacy
Versions

**ENERGY
CODES**



**MAJOR
SECTIONS**



**COMPLIANCE
PATHS**

INTRODUCTION TO THE ENERGY CODES

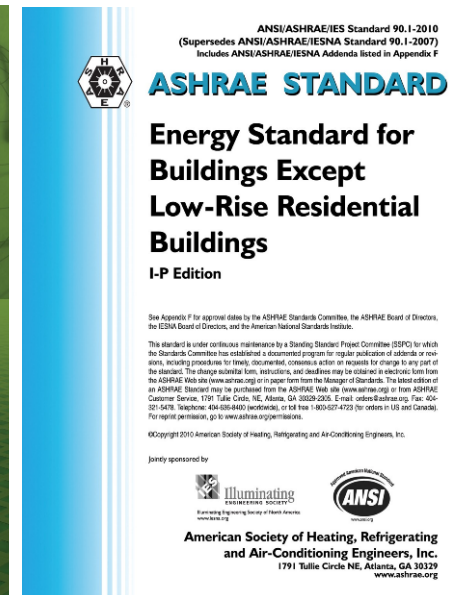
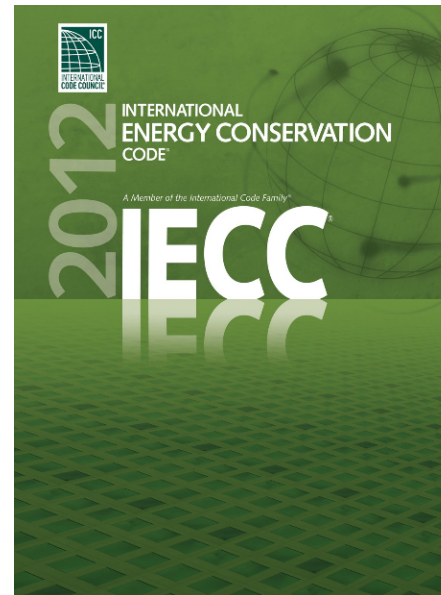
Energy Codes

International Energy Conservation Code (IECC) is an energy code that regulates the minimum energy conservation requirements for all buildings.

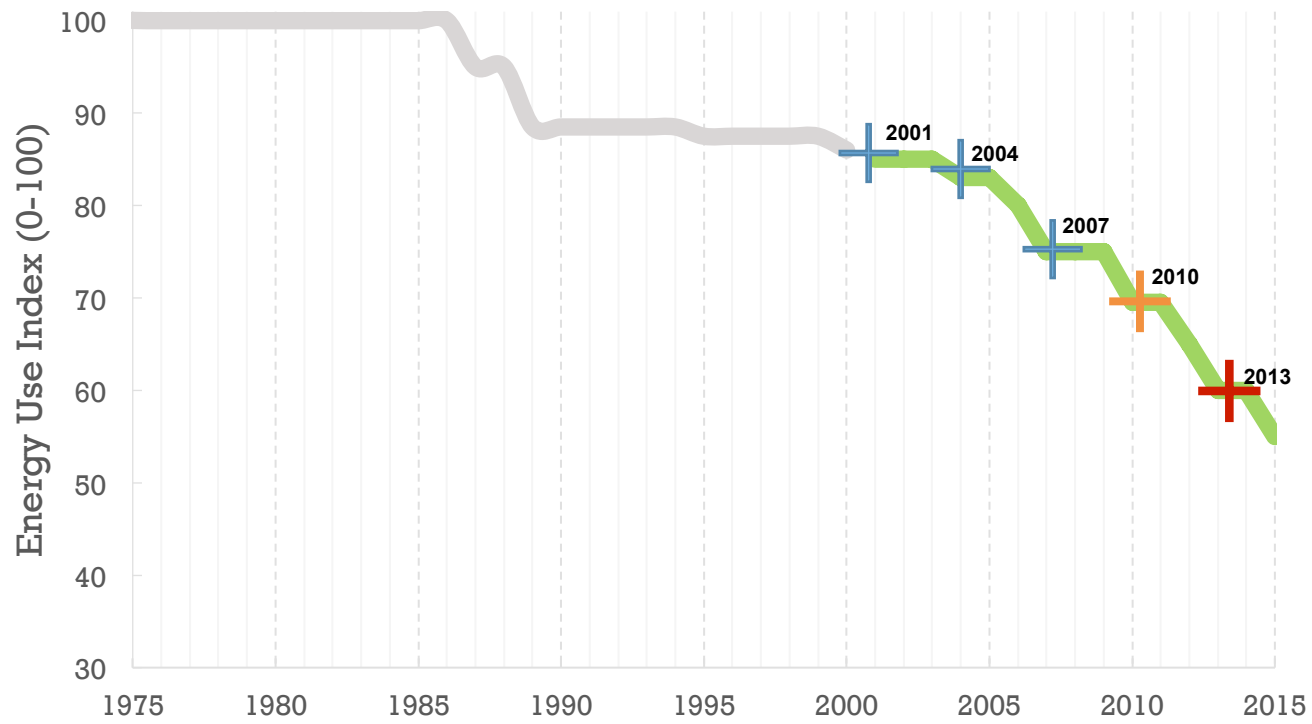
ASHRAE 90.1 is an energy performance standard adopted by IECC

Both are used by various agencies for energy compliance including,

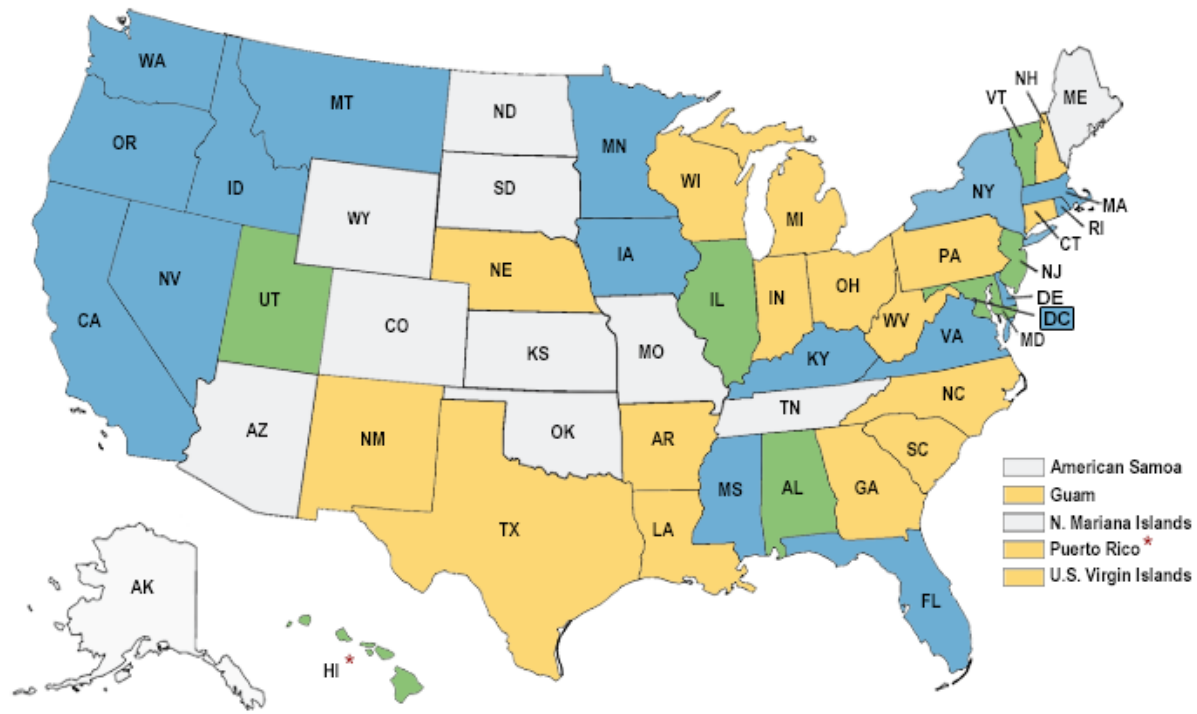
- State energy codes & local jurisdictions
- LEED
- Utility companies for rebate analysis



Advancement in Energy Codes



Energy Code Adoption (as of May 2015)

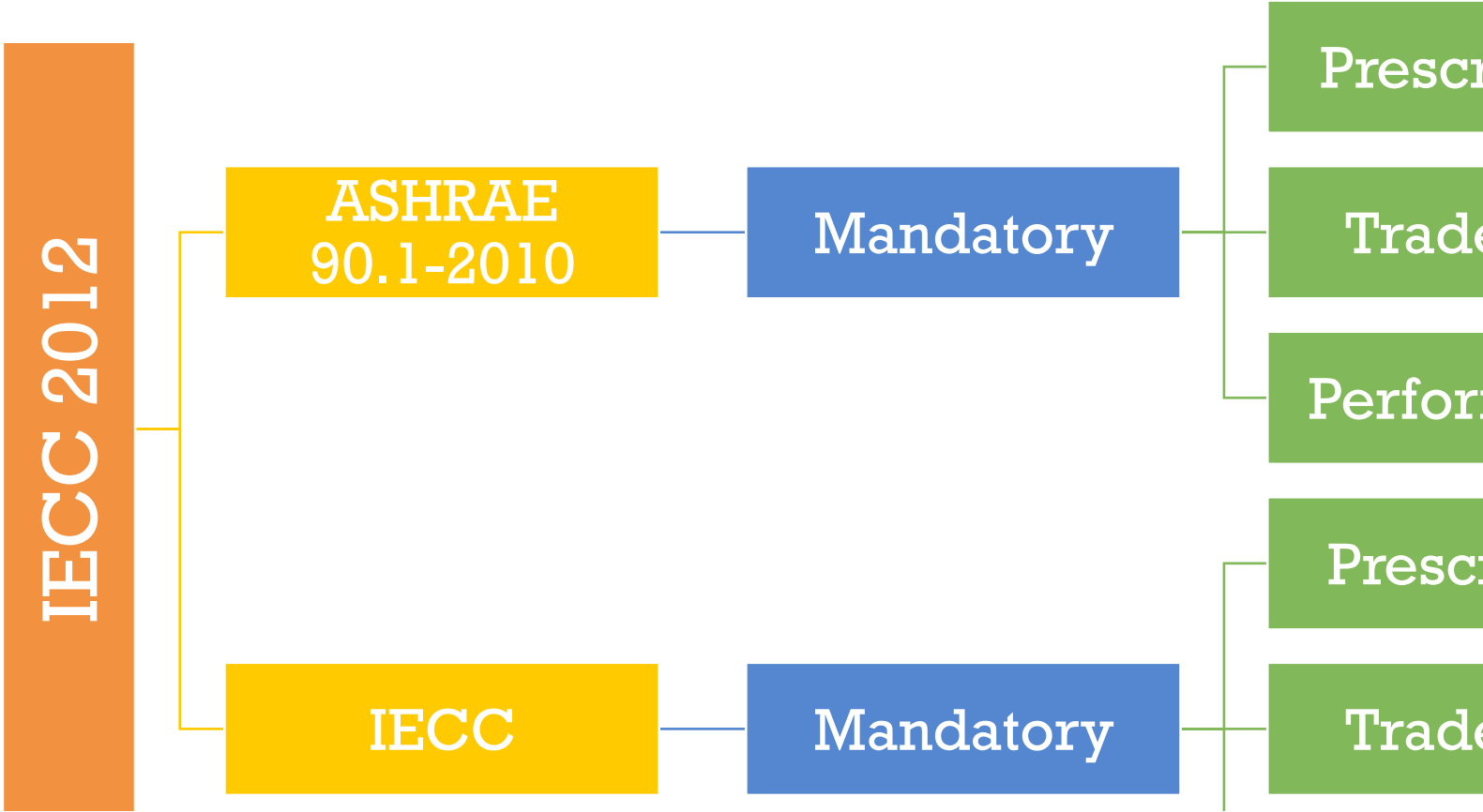


7 ASHRAE 90.1-2013/2015 IECC, equivalent, or more energy efficient	17 ASHRAE 90.1 - 2010/2012 IECC, equivalent, or more energy efficient	19 ASHRAE 90.1 - 2007/2009 IECC, equivalent, or more energy efficient
13 Older or less energy efficient than ASHRAE 90.1 - 2007/2009 IECC, or no statewide code.		

* Adopted new Code to be effective at a later date

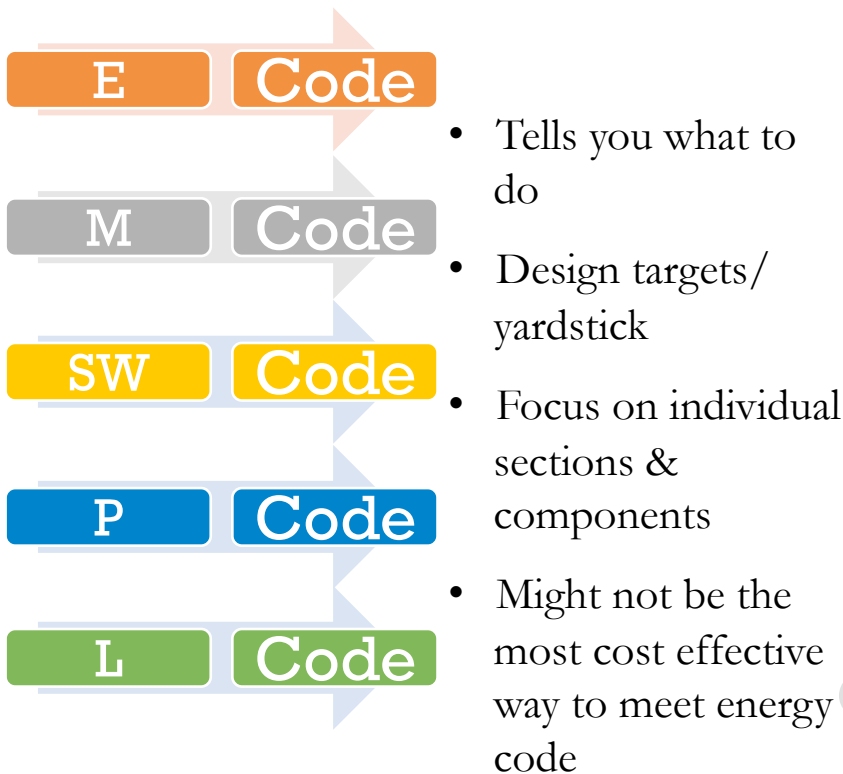
As of July 2016

Compliance Paths - Overview



Prescriptive vs Performance

PRESCRIPTIVE



PERFORMANCE

