



2010 Code Change Training

The Oregon Energy Efficiency Specialty Code Module 1 – The Administrative Chapters

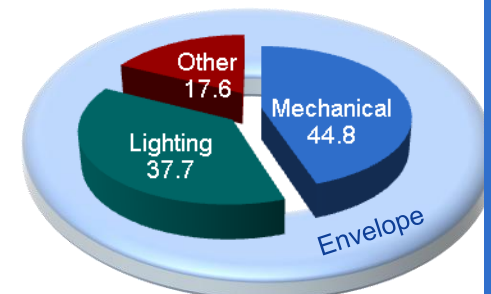
Shane Sumption



Moving to Model Code

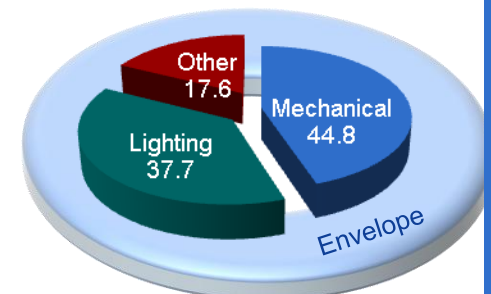
Why move to model code?

- Reduce Oregon amendments
- ICC Resources
- Efficiency measurement
- ComCheck



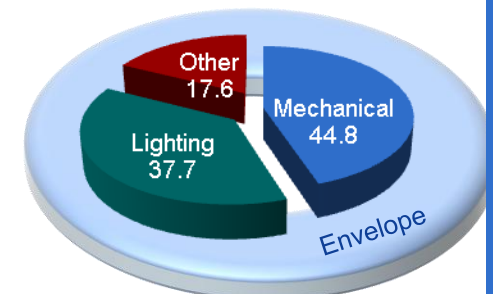
Content Layout

- Standard I-Code organization
 - Chapter 1 Administration
 - Chapter 2 Definitions
 - Chapter 3 Climate Zones
 - Chapter 4 Residential
 - Chapter 5 Commercial
 - Chapter 6 Referenced Standards
 - Index



Chapter 1-What's the Same?

- Permits
- Plan Review Certification
- Inspector Certification
- 3 Compliance Options



Compliance Options

Building System

Envelope

Lighting

Mechanical

HVAC

SWH

Mandatory Provisions

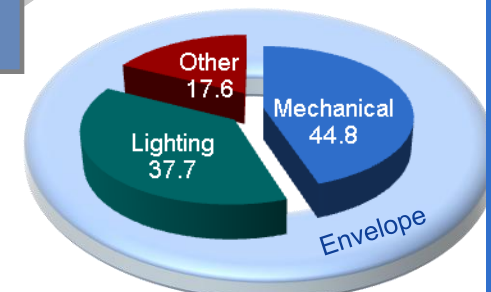
(required for most compliance options)

Compliance Options

Prescriptive Option

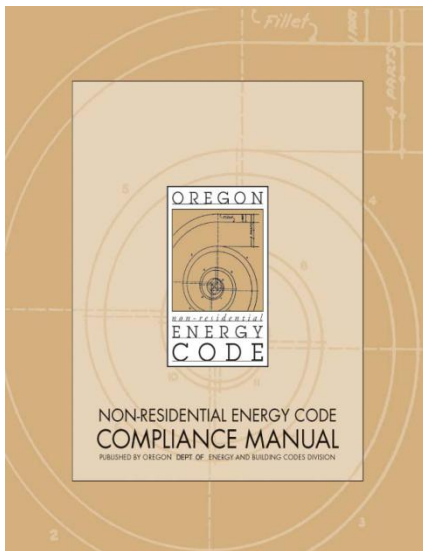
Trade Off Option

Total Building Performance

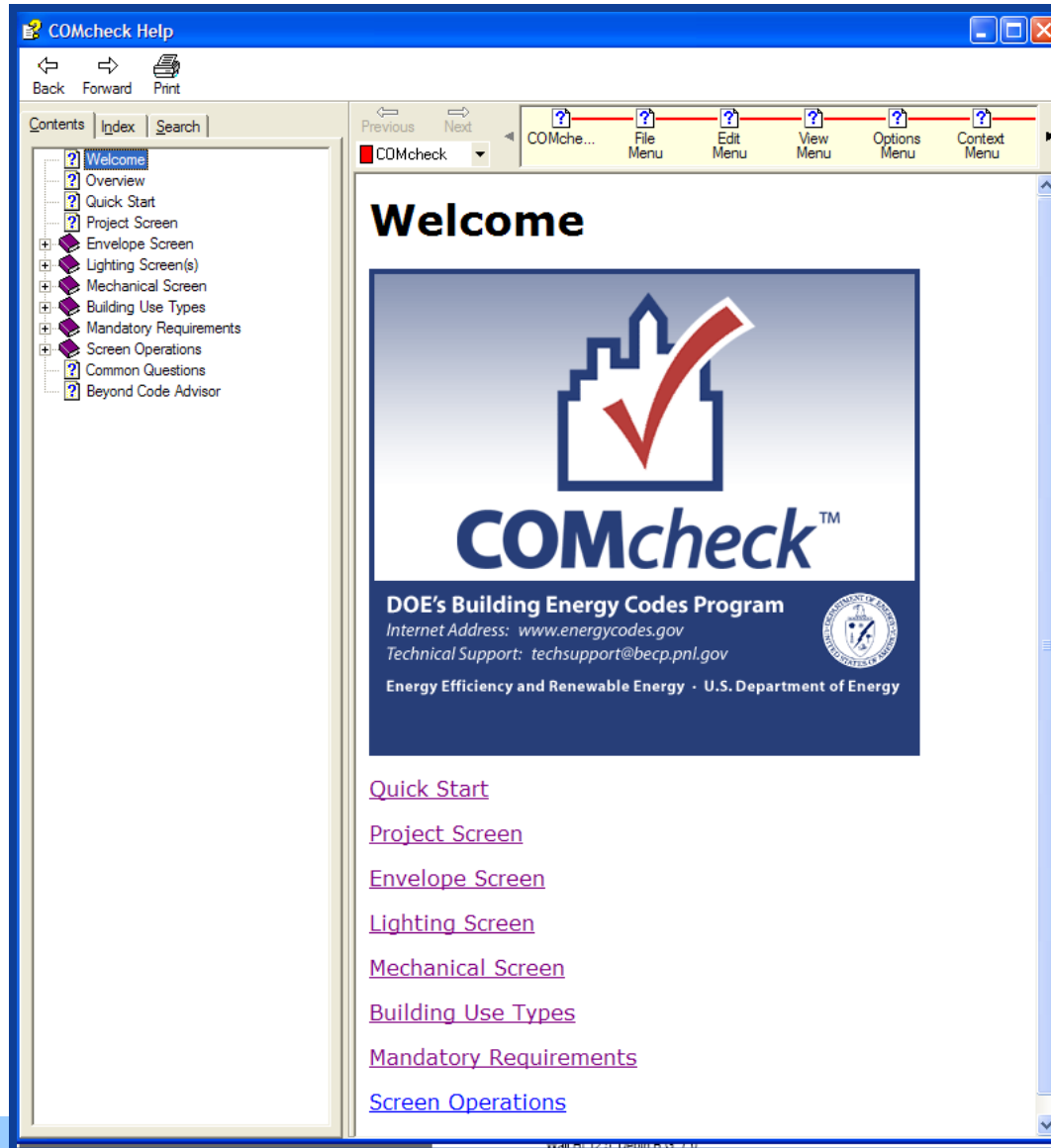


2010 OEESC - COMcheck

- Excel Based Spreadsheets are Gone
- COMcheck Software
 - Oregon Specific Version
- www.energycodes.gov/comcheck/index.stm



COMcheck




The screenshot shows the COMcheck Help application window. The title bar reads "COMcheck Help". The window contains a table of contents on the left and a main content area on the right. The main content area displays a "Welcome" message with the COMcheck logo and contact information for the DOE's Building Energy Codes Program.

Table of Contents:


- Welcome
- Overview
- Quick Start
- Project Screen
- Envelope Screen
- Lighting Screen(s)
- Mechanical Screen
- Building Use Types
- Mandatory Requirements
- Screen Operations
- Common Questions
- Beyond Code Advisor

Welcome



COMcheck™

DOE's Building Energy Codes Program
Internet Address: www.energycodes.gov
Technical Support: techsupport@becp.pnl.gov


Energy Efficiency and Renewable Energy - U.S. Department of Energy

[Quick Start](#)

[Project Screen](#)

[Envelope Screen](#)

[Lighting Screen](#)

[Mechanical Screen](#)

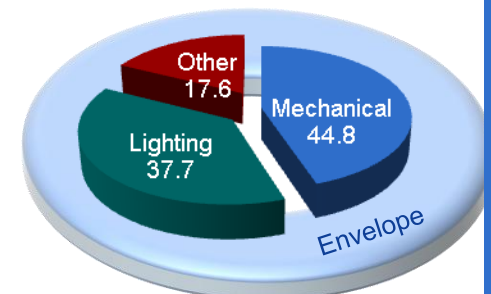
[Building Use Types](#)

[Mandatory Requirements](#)

[Screen Operations](#)

Chapter 1 – What's different?

- Scope of applicability and exceptions for existing building alterations now located in Chapter 1
- Nonconditioned spaces converted to conditioned spaces triggers compliance
- Clearly addresses mixed use building requirements



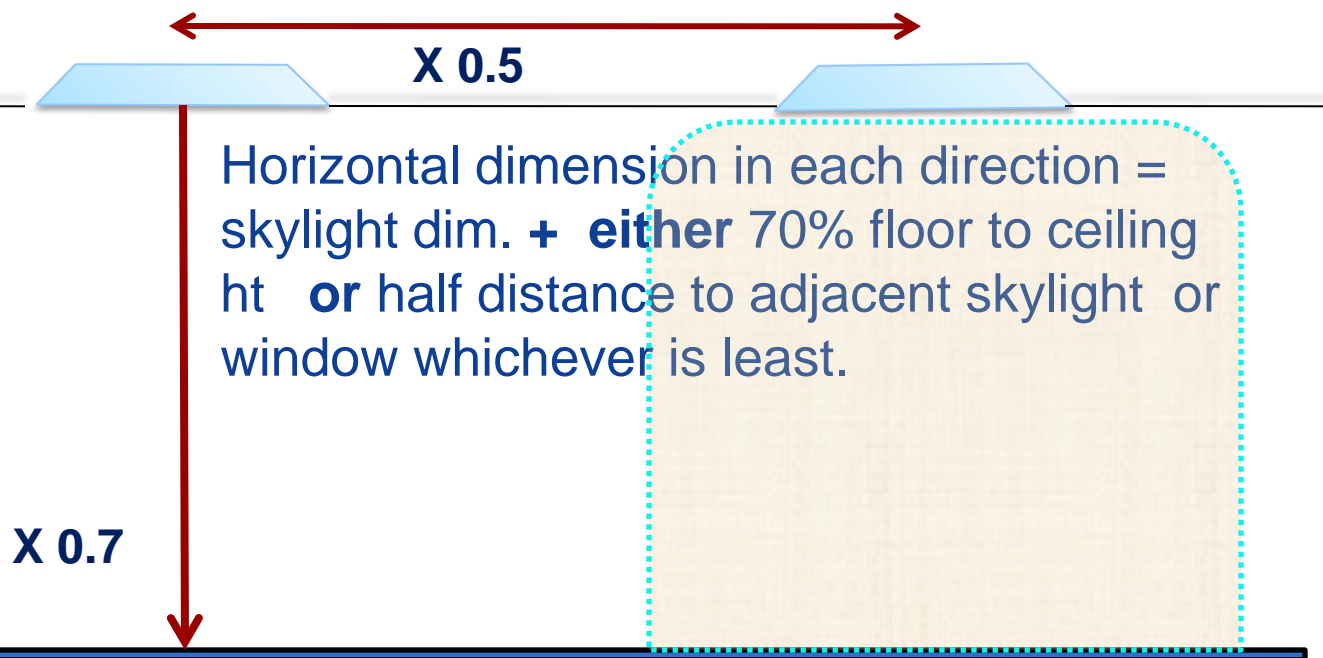
Definitions – What's new?

- Above-Grade wall – more than 50% above grade enclosing conditioned space
- Entrance door – contains over 50% glazing



Definitions – What's new?

- Daylight zone – under skylights

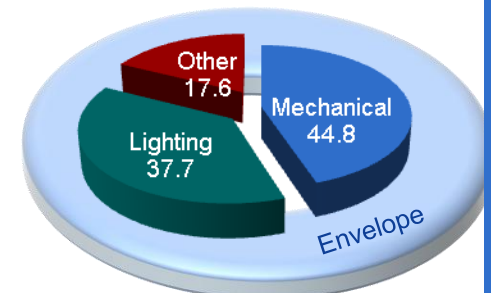


Definitions – What's new?

Daylight Zone - adjacent to vertical fenestration

DEPTH = head height of window or distance to nearest ceiling height partition

WIDTH = Width of window + 2 ft. each side **or**
Window + distance to ceiling height partition **or**
Window + $\frac{1}{2}$ distance to skylight or another window, whichever is least.



Definitions – What's new?

- Residential – all R-3 buildings and R-2, R-4 buildings 3 stories or less in height above grade



What's in Chapter 3?

■ Climate Zones

Was: Climate Zone 1

Was: Climate Zone 2

Is: Climate Zone 4C

Is: Climate Zone 5B

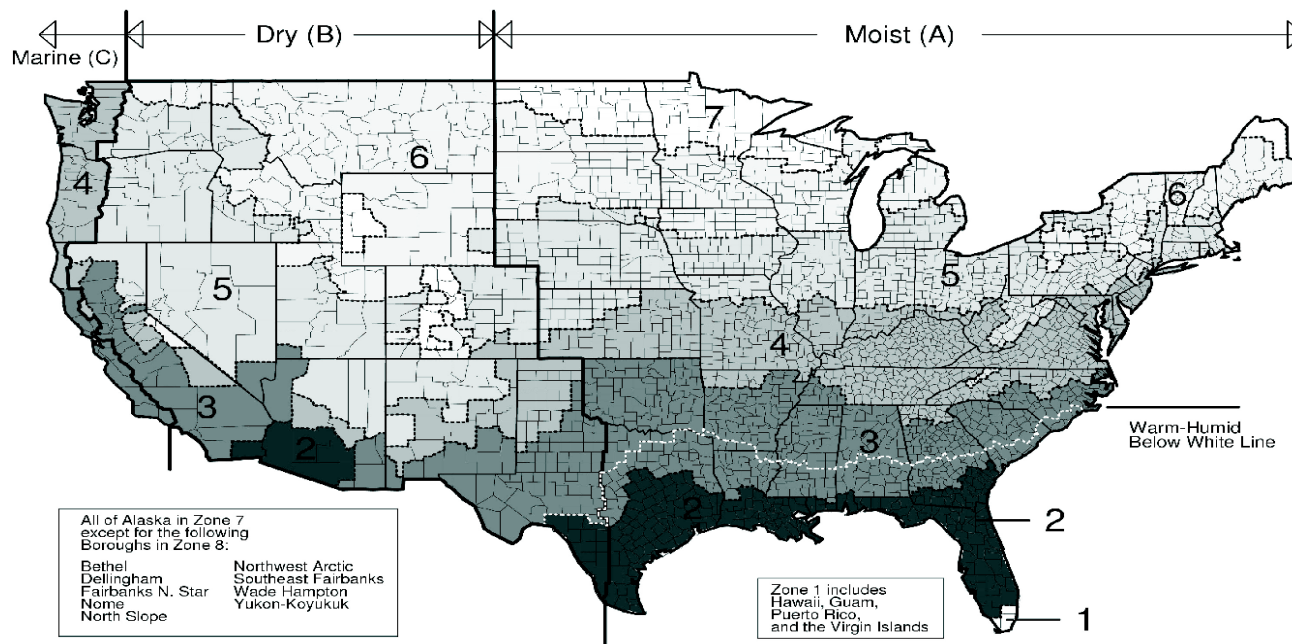
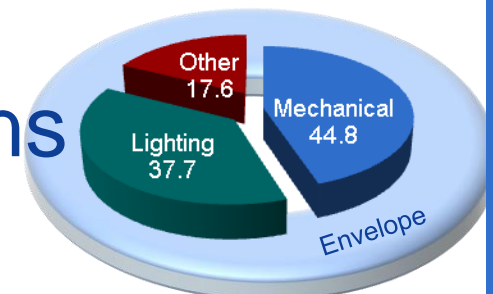


FIGURE 301.1
CLIMATE ZONES

What's in Chapter 3?

- 303.1 Identification – materials, systems, and equipment shall be identified for compliance determination
 - Insulation general requirements
 - Fenestration general requirements
- 303.2 – Installed in accordance with manufacturer's specs and the building code
- 303.3 – maintenance instructions



Chapter 4 Residential

- This Chapter is entirely an Oregon amendment
- Mirrors Chapter 11 of the ORSC
- Changes made during the ORSC adoption process

What Structures follow Chapter 4 Residential?

- R-3 Occupancies
- R-2, R-4 Occupancies that are 3 stories and less above grade

