# **Start Here**

Yes

### **Residential Energy Code Compliance Paths**

Non Stretch Code Communities



#### 2015 IRC Chapter 11 as amended by 780 CMR Chapter 11<sup>1</sup>

No

- One- and two-family dwellings and townhouses
- Groups R-2, R-3, and R-4 three stories or less



<sup>1</sup> The provisions of IECC Chapter 4 [RE] are equivalent to IRC Chapter 11.

<sup>2</sup> For changes in space conditioning the annual energy cost of the proposed design is permitted to be 110% of the standard reference design.

A change in space conditioning is when a previously unconditioned space is converted to a conditioned space

<sup>3</sup> See page 2 for more detail on each Energy Rating Index option.



## Residential Energy Code for Stretch Code Communities<sup>1,2</sup>



#### Is your building type listed below?

- One- and two-family dwellings and townhouses
- Groups R-2, R-3, and R-4 three stories or less

Yes No See 2015 IECC [CE]

#### Is it new construction?



**No** See IRC N1107 Existing Buildings

#### Mandatory requirements:

- Certificate (N1101.14)
- Air leakage (N1102.4 )
- Max area-weighted fenestration U-factor/SHGC (N1102.5)
- Controls (N1103.1)
- Duct sealing (N1103.3.2)
- Duct testing (N1103.3.3)
- Building cavities (N1103.3.5)
- Mechanical system pipe insulation (N1103.4)
- Heated water circulation and temperature maintenance systems (N1103.5.1)
- Mechanical ventilation (N1103.6)
- Equipment sizing and efficiency rating (N1103.7)
- Systems serving multiple dwelling units (N1103.8)
- Snow melt and ice system controls (N1103.9)
- Pools and permanent spas (N1103.10)
- Portable spas (N1103.11)
- Lighting equipment (N1104.1)



• One option to the right

#### **HERS Index** $\leq$ **55**

- HERS Rating completed per the most recent version of ANSI/RESNET/ICC 301 by a RESNET-certified HERS Rater using RESNET-accredited software
- Permit application: Preliminary HERS Report
- Final inspection: Final HERS Report<sup>2</sup>

### **Certified ENERGY STAR Homes v3.1**

- Permit application: Preliminary HERS Report
- Final inspection: ENERGY STAR Homes certificate, Final HERS Report, signed ENERGY STAR Thermal Enclosure Checklist

### **Passive House Specific Space Heat Demand**

- Specific space heat demand of  $\leq$  10 kbtu/sqft
- Permit application: List of compliance features, statement of estimated specific space heat demand based on plans
- Final inspection: Copy of the final PHIUS or PHI software report

<sup>1</sup> The provisions of IECC Chapter 4 [RE] are equivalent to IRC Chapter 11.

<sup>2</sup> If onsite renewable energy is part of the design, the maximum HERS Index may be increased by 5 to 12 points in accordance with 780 CMR Table N1106.4.1