

# 2015 IECC

What's new in the next edition?

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# Overview

- **Residential**

- There were few significant changes to the Residential code, with the exceptions of RE188 and hot water distribution. The concerning equipment trade-offs was defeated.

- **Commercial**

- There were many small changes to the Commercial code. Advanced lighting requirements changes in HVAC are the most substantial. Other changes involve code compliance and hot water distribution.

# Residential - Commercial

- **Compliance**
  - The requirements for existing buildings are complied into a new chapter. Changes were made to the historic buildings exemption and the added a requirement to show the thermal envelope be shown on the building plans. In addition specific inspection requirements were defined.
- **Service Water Heating**
  - Demand controls for recirculation systems were added along with requirements for hot water circulation and heat trace systems and controls. The Performance path will now include a Drain Water Heat Recovery option.

# Residential

- **Establishes an energy rating (e.g. HERS) compliance alternative.**
  - Buildings must attain an Index of 51-55 based on Climate Zone.
- **Envelope**
  - R-3 insulation for cavities in corners and headers now required.
- **Compliance**
  - Performance path not requires a second report based on as-built conditions now required.

# Commercial

- **Tropical climate zone** added.
- **Fenestration area limits**
  - Removed in the Prescriptive Total UA compliance option.
- **Air Curtain Vestibule** exception added.
- **Lighting**
  - Additional requirements for daylighting controls and extends the minimum skylight area requirements.
  - Occupancy sensors required in warehouses, lounges, etc. and commissioning of occupancy sensors and daylighting controls.

# Commercial

- **Compliance**
  - Adds three new options to Section C406:
    - (1) enhanced lighting controls,
    - (2) dedicated outdoor air system, and
    - (3) high efficiency service water heating.
- **Service Water Heating**
  - Reduces the volume of water heated through maximum pipe lengths or volumes.

# Commercial

- **Envelope**

- Several definitions revised:
  - conditioned space (adds semi-heated spaces),
  - vertical fenestration (adds sloped roof windows),
  - and below-grade wall ( $\geq 85\%$  below).



# Commercial

- **Minimum HVAC, Water Heating, and Lighting Efficiency**

- Minimum performance criteria were improved for the following applications to match ASHRAE 90.1-2013 standards:

- AC/Heat pump
- Energy recovery equipment
- Kitchen exhaust flow
- Refrigeration
- Economizers, controls, and VAV fans
- Heat rejection equipment
- 1/12 - 1 hp fans
- Multi-zone VAV systems
- Hot water system controls
- Exterior lighting controls
- Lighting power densities
- Electric transformers
- Electrical motors
- People movers
- Lighting O&M manual