



# Looking Ahead: 2021 IECC Changes Preview

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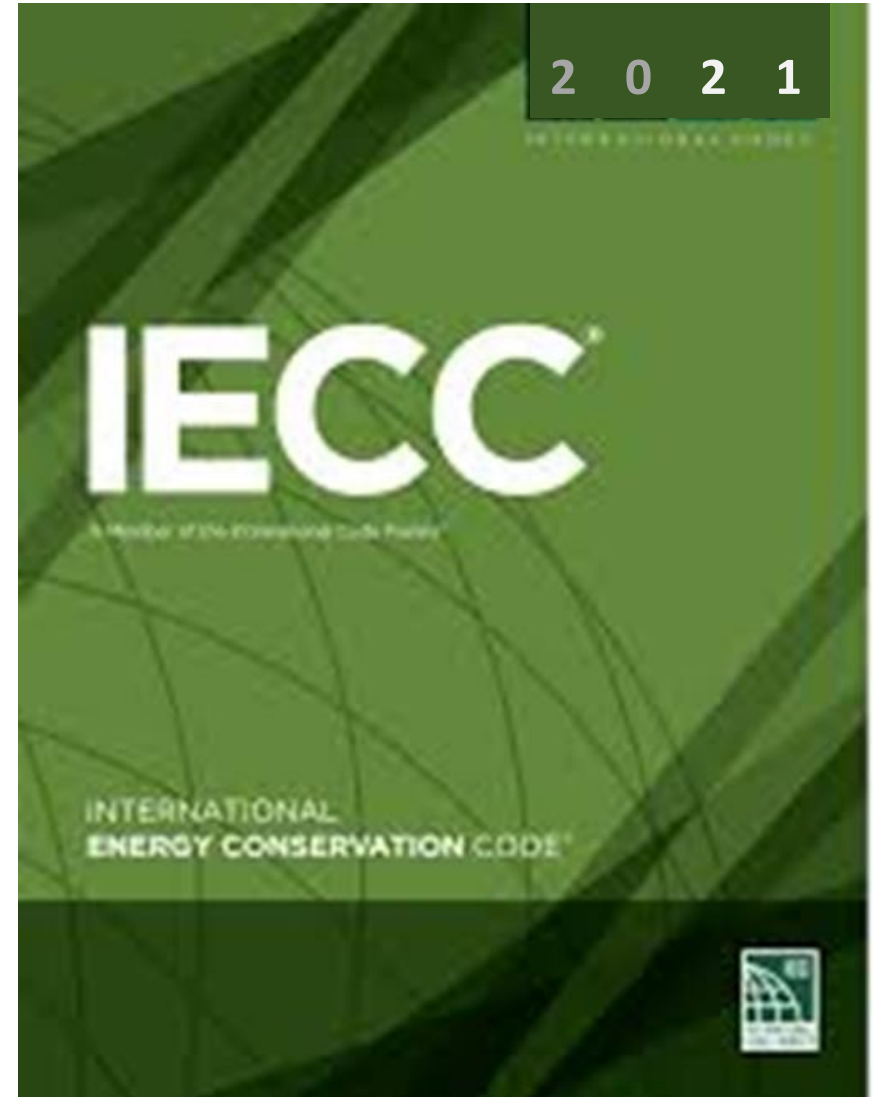
**3** **IECC reviewed  
and updated.**  
**years**

## Scope and Administration

### C101.3 Intent

*“effective integration of energy efficiency measures, **renewable energy systems, and energy storage systems.**”*

**Building Envelope**  
Changes do not appear to  
affect Climate Zone 6.



## HVAC Systems

- Ducts are now required to leakage tested in unconditioned and condition spaces [RE112] per RESNET 380.
- Ventilation systems that are part of whole house ventilation system are required to be tested for minimum CFM rates [RE130].
- Ventilation fan efficacy has increased to meet the current Energy Star standards [RE133].
- Energy recovery ventilation or heat recovery ventilation is required in Climate Zones 7 and 8 [RE139]. **But not Montana (Zone 6).**

## Lighting and Power

- Increases the installed lighting efficacy requirements to 65 lumens/watt for lamps (was 60).
- Requires lighting controls to dim or automatically turn lights off [RE7, 145].
- Exterior lighting for multifamily buildings will meet exterior lighting requirements for commercial buildings [RE148].
- Electric Vehicle Ready. Requires EV Capable or Ready charging stations residential buildings [CE217].

## Flex Packages

- Requires that those complying with the prescriptive or simulated performance path also comply with one of five Flex Packages containing additional efficiency measures.
- Those complying with the ERI must be 5% more efficient than the ERI score [RE209].

## **Simulated Performance**

**Allows on-site renewables, up to 5%,  
considered as a reduction in energy use in the  
building.**



## Energy Rating Index Compliance Approach

- Increases the efficiency of the ERI values to the IECC 2015 level. In MT those values go from 61 to 54. *Flex Package provisions effectively reduce that value to **51**.*
- Places a limitation (**5%**) on the use of renewables that can be counted toward compliance with the IECC [RE 192, 184].

## Zero Energy Appendix

Provides a zero energy appendix that requires compliance with an ERI score without considering renewables and then achieving a score of “0” with renewables [RE223].

In Montana:

- 46 Maximum ERI score with renewables
- “0” Maximum ERI score with renewables

(Note: Must also meet the minimum envelope requirements from the 2015 IECC and the mandatory requirements in section R406.)

## Envelope Tightness Training Commercial Change (CE96)

Allows testing of dwelling and sleeping unit enclosures to be done in accordance with Standard 380 and tested to a metric of cfm/ft<sup>2</sup> instead of ACH50. The proposal allows for an air leakage limit not to exceed 0.30 cfm/ft<sup>2</sup> of enclosure area.