2015 IECC

What’s new in the next edition?

Shirley Ellis
Commercial and Residential

- Tropical Climate zone added
- Regulations for rooms containing fuel-burning appliances
- New chapters on Existing Buildings
Commercial and Residential

- Tropical Climate zone added
- Regulations for rooms containing fuel-burning appliances
- New chapters on Existing Buildings
Residential

- Duct reduces insulation from R-8 to R-6 on duct less than 3 inches in diameter
- Demand recirculation systems
- Lighting equipment increased to 75%
- Establishes criteria for compliance using an ERI analysis (HERS)
- Performance path now requires a second report based on as-built conditions
Residential

• Appendix RA - Recommended Procedure for Worst-Case Testing of Atmospheric Venting Systems Under R402.4 or R405 Conditions ≤5ACH_{50}

• Appendix RB - Solar-Ready Provisions – Detached One- and Two-Family Dwellings, Multiple Single-Family Dwellings (Townhouses)
Commercial

- Equipment building exemptions
- Vestibules - added exception for air curtain
- Minimum Efficiency Requirement Tables
- Requirements for economizer fault detection and diagnostics
- Enclosed parking garage ventilation controls
Commercial

- Walk-in coolers, walk-in freezers, refrigerated warehouse coolers and refrigerated warehouse freezers
- Economizers (Prescriptive) – changes to requirements
- Demand controls for recirculation systems
- Requirements for hot water circulation and heat trace systems and controls
Commercial

- Drain Water Heat Recovery option not included in the Performance path
- Occupant sensor controls – new requirements
- Daylight-responsive controls
- Electrical motors minimum efficiency requirements
Commercial

• Vertical and horizontal transportation systems and equipment

• Additional Efficiency Package Options
  - Lighting separated into power density and controls
  - Dedicated outdoor air system on some HVAC
  - High-efficiency service water heating
Commercial

• Total Building Performance added
  Exceptional calculation method
  - Where the simulation program does not model a proposed design, material or device

• Service water-heating systems add to Commissioning
Commercial

- 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
  - Multi-zone VAV systems
  - Hot water system controls
  - Exterior lighting controls
  - Lighting power densities
  - Electric transformers
  - Electrical motors
  - People movers
  - Lighting O&M manual
  - 1/12 - 1 hp fans
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