



ENERGY SYSTEMS LABORATORY
TEXAS A&M ENGINEERING EXPERIMENT STATION

2015 IECC

What's new in the next edition?



Commercial and Residential

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



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- Tropical Climate zone added
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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 $\leq 5ACH_{50}$
- 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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