

Commercial Code Change Review Summary

Commercial 2018 IECC changes with respect to 2015 IECC and 2017 Florida Energy Code (FEC) is summarized in Table A. Sections of the ICC's Complete Revision History to the 2018 I-Codes document that contain the full code write-ups for these changes are included in this summary. Table A has six columns and are defined as follows:

2018 IECC Section and Title: is the code section number and title for the 2018 IECC.

ICC Code Change No: proposed code change identification number defined in the complete revision history to the 2018 I-codes. The code identification number is linked to its corresponding section in the abridged Revision History document below Table A. If a code section existed in IECC-2015 is deleted without substitution in IECC-2018, then there is no code section identification entry in the first column of Table A, instead "None" is entered.

Change Summary b/t 2015 IECC and 2018 IECC: brief description of the code change between the 2015 IECC and 2018 IECC.

Change Summary b/t 2017 FEC and 2018 IECC: brief description of the code change between the 2017 FEC and 2018 IECC.

Anticipated Energy Impact on FEC if Adopted: energy use impact from the code change. This is usually a decrease energy use, an increase energy use, or none. None means the code change has no or negligible impact on energy use.

Anticipated Cost Impact on FEC if Adopted: construction cost impact from the code change. This is usually a decrease in construction cost, increase construction cost, or none. None means the code change has no or negligible impact on construction cost.

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
[General Definitions] C202 AIR BARRIER	CE3-16 Part I	Simplifies and cleans up the definition of air barrier and adds the criterion for "continuous."	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 BUILDING THERMAL ENVELOPE	CE4-16 Pat I	The changes are editorial to add clarity and understanding to the definition of Thermal Envelope.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 CAVITY INSULATION	CE5-16 Part I	Added new definition for Cavity Insulation.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 COEFFICIENT OF PERFORMANCE (COP) – COOLING	CE6-16	This editorial change clarifies definition of cooling coefficient of performance (COP). No impact on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 COMPUTER ROOM	CE9-16	Clarifies a computer room definition by adding the maximum limits of electronic data equipment power density and load. No impact on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 FENESTRATION	CE11-16 Part I	Editorial clarification to existing definitions of FENESTRATION including skylights and vertical fenestration. No impact on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 ENTRANCE DOOR		Editorial clarification to existing definitions of ENTRANCE DOOR to include vertical fenestration and added the word occupant. No impact on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 NAMEPLATE HORSEPOWER.	CE15-16	Replaced “horsepower” with “output power” in NAMEPLATE HORSEPOWER definition. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 ON-SITE RENEWABLE ENERGY	CE16-16	Added Biogas to the list of renewable energy source types in the existing definition. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

* FSEC assessment of energy and cost impacts is consistent with those in 2018 IECC-Codes Revision History unless otherwise noted

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
[General Definitions] C202 SCREW LAMP HOLDERS	CE20-16	Deleted SCREW LAMP HOLDERS definition without substitution. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C303.1.1 Building thermal envelope insulation	CE26-16 Part I	Added labeling requirement for roof insulation installed entirely above the deck as an exception. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C303.1.3 Fenestration product rating	CE29-16 Part I	Modified code section C303.1.3. Removed the exception for garage doors rating and added U-factor rating requirement for garage doors and rolling doors. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
TABLE C303.1.3(2) DEFAULT OPAQUE DOOR U-FACTORS	CE30-16 Part I	Modified Table C303.1.3(2). Added rolling insulated metal door type and default Opaque Door U-factor value. Also edited titles of tables C303.1.3(1) and C303.1.3(2) for clarity. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
None	CE34-16	Deleted code section C303.3 Maintenance Information without substitution.	Same as change between 2015 IECC and 2018 IECC	None	None
C408 MAINTENANCE INFORMATION AND SYSTEM COMMISSIONING		Modified section C408 title. No effect on cost	Same as change between 2015 IECC and 2018 IECC	None	None
C408.1 General		Edited code section C408.1. Added Maintenance Information requirement. Deleted cross-referenced code sections. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C408.1.1 Building operations and maintenance information		Added new code section C408.1.1. Building operations and maintenance information document shall be provided to the owner. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C401.2 Application		CE36-16	Modified code section C401.2. Added building compliance requirements to include Section C408.	Same as change between 2015 IECC and 2018 IECC	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
None	CE36-16	Deleted code section C403.2.11 without substitution. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
None		Deleted code section C404.11 without substitution. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C408.1 General		Modified code section C408.1. Added functional testing requirements and deleted some cross-referenced section numbers and the text “electrical power and lighting systems”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
None. Deleted. See CE268-16		Modified code section C408.2.5.2. Edited operating and maintenance manual requirements to include a narrative of how a system intended to operate and recommended setpoints. Also deleted items 6 through 7. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C408.3 Functional testing for lighting controls		Modified code section C408.3. Modified automatic lighting control requirements. Replaced text “system” with “controls” in the title. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C408.3.1 Functional testing		Modified code section C408.3.1. Revised functional testing requirements to include Section C408.3.1.3. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C408.3.2 Documentation requirements		Modified code section C408.3.2. Revised requirements for construction documents submittal to the owner and owner authorized agents within 90 days of the date of receipt of certificate of occupancy. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C408.3.2.1 Drawings		Added a new section C408.3.2.1. Construction documents shall include the location and catalogue number of each piece of equipment. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C408.3.2.2 Manuals		Added a new section C408.3.2.2. Operational and maintenance manual shall be provided and lists what needs to be included in the manual. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C408.3.2.3 Report	CE36-16	Added a new section C408.3.2.3. The test report shall include functional performance results and deficiencies found during testing including corrective measures proposed. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.1.3 Insulation component R-value-based method	CE55-16	Modified code section C402.1.3. This is just a reorganization of requirements that are already in the code. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.1.4 Assembly <i>U</i> -factor, <i>C</i> -factor or <i>F</i> -factor-based method		Modified code section C402.1.4. Removed some code text related to below-grade walls to create a new section. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.2.5 Below-grade walls		Added new code section C402.2.5. This section is created by moving code from Section C402.1.4. No cost increase.	Same as change between 2015 IECC and 2018 IECC (Section number changed from C402.4.4 to C402.4.5)	None	None
C402.4.5 Doors		Modified code section C402.4.4. Clarified doors code requirement. Opaque swinging doors shall comply with Table C402.1.4 and non-swinging doors shall comply with Table C402.1.3. No cost increase.	Same as change between 2015 IECC and 2018 IECC (Section number changed from C402.4.4 to C402.4.5)	None	None
Table C402.1.3, Table C402.1.4	CE60-16 Part I	Modified Tables C402.1.3 and C402.1.4. Establishes appropriate U-values for opaque garage doors and title changes for consistency with residential application. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
Table C402.1.3, Table C402.1.4	CE61-16	Modified Tables C402.1.3 and C402.1.4. Increased the minimum insulation R-values for all climates for heated slab-on-grade floors, increased maximum F-factors for climate zones 7- 8 for unheated slab-on-grade floors and increased maximum F-factors for climate zones 1- 8 for heated slab-on-grade floors. Increases cost.	Same as change between 2015 IECC and 2018 IECC.	Decreases Energy Use	Increases cost
C402.2.4 Slabs-on-grade perimeter insulation		Edited code section C402.2.5. Provided clarification on the application of perimeter slab insulation for heated slab-on-grade floors. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C402.1.3 Insulation component R-value-based method	CE65-16 Part I	Edited code section C402.1.3. Replaced the text ‘meet’ with ‘comply’ to emphasize the code intent. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.1.4 Insulation component R-value-based method	CE68-16	Modified code section C402.1.4. Edited footnotes ‘a’ and ‘b’ to Table C402.1.4 for clarification. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
Table C402.1.4 Opaque Thermal Envelope Maximum Requirements, U-Factor Method	CE69-16	Modified Table C402.1.4. Corrects above-grade walls and mass floors U-factor requirements in Table C402.1.4 to make them consistent with the R-value requirements in Table C402.1.3 for climate zones 6 through 8. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.1.5 Component performance alternative	CE72-16	Edited code section C402.1.5. Edited cross-reference of C-, F-, and U-factor tables and added fenestrations SHGC compliance requirement for component performance alternative method. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C502.2.1 Vertical fenestration		Edited code section C502.2.1. Corrected cross-referenced code section of new and additions vertical fenestration code requirements. Replaced text ‘vertical glazing’ with ‘vertical fenestration’ for consistency. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C502.2.2 Skylight area		Edited code section C502.2.2. Corrected cross-referenced code section of new and addition total skylights area code requirement. No effect on cost	Same as change between 2015 IECC and 2018 IECC	None	None
C503.3.1 Roof replacement		Edited code section C503.3.1. Corrected cross-referenced code section of roof replacement requirement. No effect on cost	Same as change between 2015 IECC and 2018 IECC	None	None
C503.3.2 Vertical fenestration		Edited code section C503.3.2. Corrected cross-referenced code section of additions and alterations of vertical fenestration code requirement to comply. Also replaces vertical glazing with vertical fenestration for consistency and clarification. No effect on cost	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C503.3.3 Skylight area	CE72-16	Edited code section C503.3.3. Corrected cross-referenced code section of new and alteration skylights area requirement. No effect on cost	Same as change between 2015 IECC and 2018 IECC	None	None
C303.2.2 Multiple layers of continuous insulation board	CE74-16	Moved code section C402.2.1. Changed section number to C303.2.2. No text change. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.2.1 Roof assembly	CE78-16	Modified code section C402.2.2. Continuous insulation board shall be installed in not less than 2 layers and the edge joints between each layer of insulation shall be Staggered. Negligible cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.2.1 Roof assembly	CE81-16	Edited code section C402.2.2. Rearranged text. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.2.1 Roof assembly	CE82-16	Modified code section C402.2.2. Moved the skylights curb insulation R-value and the related exception requirements to new subsection C402.2.1.1. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.2.1.1 Skylights curbs		Added new subsection C402.2.1.1 by moving existing code on Skylight curbs insulation level requirements from roof assembly section C402.2.2 for clarity. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.2.2 Above-grade walls	CE83-16	Edited code section C402.2.3. Changed the title to "Above-grade walls". Added a clarification on the use of U-factor for integral insulation installed in concrete masonry units. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.2.2 Above-grade walls	CE84-16 Part I	Modified code section C402.2.3. Clarifies "Mass walls" compliance requirements. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.2.3 Floors		Modified code section C402.2.4. Clarifies "Mass floors" weight requirements for compliance. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C402.2.7 Airspaces	CE87-16 Part I	Added new code section C402.2.7. Added a new section about airspaces in thermal envelope application and restrictions on the R-value of airspaces. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
TABLE C402.4 BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR AND SHGC REQUIREMENTS	CE94-16	Modified TABLE C402.4. Reduced fenestration SHGC values by 5.0 – 10.0% for IECC climate zones 4 and 5. This change impacted climate zones 4 and 5. No significant effect on cost.	Same as change between 2015 IECC and 2018 IECC. No effect on FEC. No effect on cost.	None	None
C402.4.1.2 Increased skylight area with daylight responsive controls	CE97-16	Modified code section C402.4.1.2. Skylights area percentage allowed with daylight response control is used increased from 5% to 6%. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None
C402.4.1.2 Increased skylight area with daylight responsive controls	CE98-16	Edited code section C402.4.1.2. Replaced text “zones under skylights” with “Toplit zones”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.4.2 Minimum skylight fenestration area		Edited code section C402.4.2. Replaced text “zones under skylights” with “Toplit daylight zones”. Also edited equation of Skylight Effective Aperture, Equation 4-4. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.4.2.1 Lighting controls in toplit daylight zones		Edited code section C402.4.2.1. Editorial change to section title and the text. Replaced text “zones under skylights” with “Toplit daylight zones”. Also edited Figures C405.2.3.2 and C405.2.3.3 (1) captions. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.4.4 Daylight zones	CE102-16	Added new section C402.4.4 Daylight zones. Referenced other code section. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C405.2.3.2 Sidelit zone	CE102-16	Edited code section C405.2.3.2. Replaced text “Sidelight daylight zone” with “Sidelit zone”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.3.3 Toplit zone		Edited code section C405.2.3.3. Replaced text “Toplight daylight zone” with “Toplit zone”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.3 Daylight-responsive controls		Edited code section C405.2.3. Replaced text “Toplight daylight zone” with “Toplit zone” and “Sidelight daylight zone” with “Sidelit zone”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.3.1 Daylight-responsive control function		Edited code section C405.2.3.1. Replaced text “Toplight daylight zone” with “Toplit zone” and “Sidelight daylight zone” with “Sidelit zone”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.5.1.1 Air barrier construction	CE108-16	Modified code section C402.5.1.1. Modified the compliance requirement to include “Sealing shall allow for expansion, contraction, and mechanical vibration”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.5.1.1 Air barrier construction	CE109-16	Edited code section C402.5.1.1. Editorial change to the code text for clarity. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
TABLE C402.5.2 MAXIMUM AIR LEAKAGE RATE FOR FENESTRATION ASSEMBLIES	CE113-16	Modified Table C402.5.2. Added “Power-operated sliding doors” and “Power-operated folding doors” entry to the table. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C402.5.3 Rooms containing fuel-burning appliances	CE114-16 Part I	Edited code section C402.5.3. Editorial change was rejected. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C402.5.6 Loading dock weatherseals	CE116-16	Modified code section C402.5.6. Door openings shall be equipped with weatherseals to restrict infiltration and provide direct contact along the top and sides of vehicles when parked in the doorway. Expected to increase first cost of construction.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
C403.1 General	CE119-16	Edited code section C403.1. Editorial changes. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.1.1 Calculation of heating and cooling loads		Modified code section C403.2.1. Moved the section to create a new section C403.1.1. No effect on cost.	Same as change between 2015 IECC and 2018 IECC. Florida code needs to preserve the Design loads reporting form requirements. No effect on cost.	None	None
C403.2 System design (Mandatory)		Modified code section C403.2. Modified section title and updated cross-referenced code sections. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.2.1 Zone isolation required (Mandatory)		Modified code section C403.2.4.4. Added text “required” to the title, updated cross-referenced code sections, and labelled it Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4 Heating and cooling equipment efficiencies (Mandatory)		Added new code section C403.4. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.3.1 Equipment sizing		Edited code section C403.2.2. Edited code section to updated cross-referenced code section. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.3.2 HVAC equipment performance requirements (Mandatory)		Edited code section C403.2.3. Edited code section C403.2.3 and updated cross-referenced Tables C403.3.2(1) through C403.3.2(10) and labelled it Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C403.3.2.1 Water-cooled centrifugal chilling packages (Mandatory)	CE119-16	Edited code section C403.2.3.1. Edited existing code section C403.2.3.1, updated cross-referenced code sections and labelled it Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.3.2.2. Positive displacement (air- and water-cooled) chilling packages (Mandatory)		Edited code section C403.2.3.2. Edited existing code section C403.2.3.2, updated cross-referenced code sections and labelled it Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.3.3 Hot gas bypass limitation		Edited code section C403.4.6. Edited existing code section C403.4.6 and updated cross-referenced code sections. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.3.4 Boiler turndown		Edited code section C403.4.2.5. Edited code section C403.4.2.5 and updated cross-referenced code sections. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
None		Deleted code section C403.2.4 HVAC system controls without substitution. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4 Heating and cooling system controls (Mandatory)		Added new code section C403.4. Added controls requirement for each cooling and heating systems per code section C403.4.1 through C403.4.5. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.1 Thermostatic controls (Mandatory)		Modified code section C403.2.4.1. Replaced code section C403.2.4.1 and labeled it mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.1.1 Heat pump supplementary heat (Mandatory)		Modified code section C403.2.4.1.1. Replaced existing code section C403.2.4.1.1 and labeled it mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.1.2 Deadband (Mandatory)		Modified code section C403.2.4.1.2. Replaced existing code section C403.2.4.1.2 and labeled it mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C403.4.1.3 Set point overlap restriction (Mandatory)	CE119-16	Modified code section C403.2.4.1.3. Replaced code section number C403.2.4.1.3, labeled it mandatory and updated cross-referenced code sections. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.1.5 Hot water boiler outdoor temperature setback control (Mandatory)		Modified code section C403.2.5. Replaced code section number C403.2.5 and labeled it mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.2 Off-hour controls (Mandatory)		Modified code section C403.2.4.2. Replaced code section number C403.2.4.2 and labeled it mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.2.1 Thermostatic setback capabilities (Mandatory)		Modified code section C403.4.2.1. Replaced code section number C403.2.4.2.1, and labeled it mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.2.2 Automatic setback and shutdown capabilities (Mandatory)		Modified code section C403.4.2.2. Replaced code section number C403.2.4.2.2, and labeled it mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.2.3 Automatic start (Mandatory)		Modified code section C403.4.2.3. Replaced code section number C403.2.4.2.3, deleted “capabilities” from the title and labeled it Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.3 Hydronic systems controls		Modified code section C403.4.2. Replaced existing code section number C403.4.2 and updated cross-referenced code sections. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.3.1 Three-pipe system		Changed code section number C403.4.2.1. No text change. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.3.2 Two-pipe changeover system		Changed code section number C403.4.2.2. No text change. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C403.4.3.3 Hydronic (water loop) heat pump systems	CE119-16	Changed code section number C403.4.2.3 and updated cross-referenced code sections. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.3.3.1 Temperature dead band		Changed code section number C403.4.2.3.1. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.3.3.2 Heat rejection		Changed code section number C403.4.2.3.2 and updated cross-referenced code sections. Also combined section number C403.4.2.3.2.1 and section number C403.4.2.3.2.2 and moved it to C403.4.2.3.2. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
None. See CE160-16		Moved code section number C403.4.2.3.2.1. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
None. See CE160-16		Moved code section number C403.4.2.3.2.2. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.3.3.3 Two-position valve		Changed code section number C403.4.2.3.3. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.4 Part-load controls		Changed code section number C403.4.2.4. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.5 Pump isolation		Changed code section number C403.4.2.6. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5 Economizers (Prescriptive)		Changed code section number C403.3 and updated cross-referenced code sections. No effect on cost.	Same as change between 2015 IECC and 2018 IECC. FEC has economizer exception for HVAC unit efficiency is higher by at least 17%.	None	None
Tables C403.5(1), C403.5(2) and C403.5.1		Changed Table numbers C403.3(1), C403.3(2). And C403.3.1. No effect on cost.	Same as change between 2015 IECC and 2018 IECC. Economizer exception for high efficiency equipment applies.	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C403.5.2 Integrated economizer control	CE119-16	Changed code section number C403.3.1 and updated cross-referenced code sections. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.2 Economizer heating system impact.		Changed code section number C403.3.2 and updated cross-referenced code sections. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.3 Air Economizer		Changed code section number C403.3.3 and updated cross-referenced code sections. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.3.1 Design capacity		Changed code section number C403.3.3.1. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.3.2 Control signal		Changed code section number C403.3.3.2. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.3.3 High-limit shutoff		Changed code section number C403.3.3.3 and updated cross-referenced code sections. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.3.4 Relief of excess outdoor air		Changed code section number C403.3.3.4 and no change to text. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.3.5 Economizer dampers		Changed code section number C403.3.3.5 and updated cross-referenced code sections. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.4 Water-side economizers		Changed code section number C403.3.4 and updated cross-referenced code sections. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.4.1 Design capacity		Changed code section number C403.3.4.1 and no change to text. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.4.2 Maximum pressure drop		Changed code section number C403.3.4.2 and no change to text. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C403.5.5 Economizer fault detection and diagnostics (FDD) (Mandatory)	CE119-16	Changed code section number C403.2.4.7 labeled it mandatory section and updated cross-referenced code sections. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
None		Deleted code section C403.4 without substitution. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.6 Requirements for mechanical systems serving multiple zones		Changed code section number C403.4.4, modified the section title, and updated cross-referenced code section numbers. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.6.2 Single-duct VAV systems, terminal devices		Changed code section number C403.4.4.1. No text changed. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.6.3 Dual-duct and mixing VAV systems, terminal devices		Changed code section number C403.4.4.2. No text changed. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.6.4 Single-fan dual-duct and mixing VAV systems, economizers		Changed code section number C403.4.4.3. No text changed. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.6.5 Supply-air temperature reset controls		Changed code section number C403.4.4.5. No text changed. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.6.6 Multiple-zone VAV system ventilation optimization control		Changed code section number C403.4.4.6 and updated cross-referenced code sections. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.6.8 Set points for direct digital control		Changed code section number C403.4.1.3 and updated cross-referenced code sections. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.6.9 Static pressure sensor location		Changed code section number C403.4.1.2. No change to text. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.7 Ventilation and exhaust systems		Added new code section C403.7. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C403.7.1 Demand controlled ventilation (Mandatory)	CE119-16	Changed code section number C403.2.6.1 labeled it mandatory section and updated cross-referenced code section. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.7.2 Enclosed parking garage ventilation controls (Mandatory)		Changed code section number C403.2.6.2, and labeled it mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.7.3 Energy recovery ventilation systems (Mandatory)		Changed code section number C403.2.7, labeled it mandatory section and updated cross-referenced code section. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.7.4 Kitchen exhaust systems (Mandatory)		Changed code section number C403.2.8, and labeled it mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.7.5 Shutoff dampers (Mandatory)		Changed code section number C403.2.4.3, and labeled it mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.8 Fans and fan controls (Mandatory)		Changed code section number C403.2.12, changed the title, moved some of the text to a new section C403.8.1, updated cross-referenced code section and labeled it mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.8.1 Allowable fan horsepower (Mandatory)		Added a new code section C403.8.1. Total fan system motor nameplate horsepower (hp) exceeding 5 hp (3.7 kW) shall comply with the provisions of Sections C403.8.1.1 through C403.8.1.3. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.8.1 Allowable fan horsepower (Mandatory)		Changed code section number C403.2.12.1, moved it to the new section C403.8.1. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.8.2 Motor nameplate horsepower (Mandatory)		Changed code section number C403.2.12.2, labeled it mandatory and updated cross-referenced code section. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C403.8.3 Fan efficiency (Mandatory)	CE119-16	Changed code section number C403.2.12.3, labeled it mandatory and updated cross-referenced code section. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.8.4 Fractional hp fan motors		Changed code section number C403.4.4.4, updated cross-referenced code section labeled it mandatory and. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.8.5 Fan control		Changed code section number C403.4.1 and updated cross-referenced code section. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.8.5.1 Fan airflow control		Changed code section number C403.4.1.1 and updated cross-referenced code section. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.9 Heat rejection equipment		Changed code section number C403.4.3 and updated cross-referenced code section. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.9.1 General		Changed code section number C403.4.3.1 and updated cross-referenced code section. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.9.2 Fan speed control		Changed code section number C403.4.3.2 and updated cross-referenced code section. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.9.2.1 Fan motors not less than 7.5 hp		Changed code section number C403.4.3.2.1. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.9.2.2 Multiple-cell heat rejection equipment		Changed code section number C403.4.3.2.2. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.9.3 Limitation on centrifugal fan open-circuit cooling towers		Changed code section number C403.4.3.3 and updated cross-referenced code section. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.9.4 Tower flow turndown		Changed code section number C403.4.3.4. No change to text. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C403.9.5 Heat recovery for service water heating	CE119-16	Changed code section number C403.4.5. No change to text. No effect on cost	Same as change between 2015 IECC and 2018 IECC	None	None
C403.10 Refrigeration equipment performance (Mandatory)		Changed code section number C403.2.14, labeled it mandatory and updated cross-referenced code section. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.10.1 Walk-in coolers, walk-in freezers, refrigerated warehouse coolers and refrigerated warehouse freezers (Mandatory)		Changed code section number C403.2.15, labeled it mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.10.2 Walk-in coolers and walk-in freezers (Mandatory)		Changed code section number C403.2.16 and labeled it mandatory. No effect on cost	Same as change between 2015 IECC and 2018 IECC	None	None
C403.10.3 Refrigerated display cases (Mandatory)		Changed code section number C403.2.17 and labeled it mandatory. No effect on cost	Same as change between 2015 IECC and 2018 IECC	None	None
C403.10.4 Refrigeration systems		Changed code section number C403.5 and updated cross-referenced code section. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.10.4.1 Condensers serving refrigeration systems		Changed code section number C403.5.1. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.10.4.2 Compressor systems		Changed code section number C403.5.2. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.11 Construction of HVAC system elements		Added new code section C403.11. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.11.1 Duct and plenum insulation and sealing (Mandatory)		Changed code section number C403.2.9 and labeled it mandatory. No effect on cost.	Section title has text “construction” and organized differently.	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C403.11.2 Duct construction (Mandatory)	CE119-16	Changed code section number C403.2.9.1 and labeled it mandatory. No change to text. No effect on cost.	Same as change between 2015 IECC and 2018 IECC. FEC code is organized differently.	None	None
C403.11.2.1 Low-pressure duct systems (Mandatory)		Changed code section number C403.2.9.1.1 and labeled it mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC. FEC code is organized differently.	None	None
C403.11.2.2 Medium-pressure duct systems (Mandatory)		Changed code section number C403.2.9.1.2 and labeled it mandatory. No change to text. No effect on cost.	Same as change between 2015 IECC and 2018 IECC. FEC code is organized differently.	None	None
C403.11.2.3 High-pressure duct systems (Mandatory)		Changed code section number C403.2.9.1.3, labeled it mandatory and updated cross-referenced code section. No effect on cost.	Same as change between 2015 IECC and 2018 IECC. FEC code is organized differently.	None	None
C403.11.3 Piping insulation (Mandatory)		Changed code section number C403.2.10, labeled it mandatory and updated cross-referenced code section. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.11.3.1 Protection of piping insulation (Mandatory)		Changed code section number C403.2.10.1, labeled it mandatory. No change to text. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.12 Mechanical systems located outside of the building thermal envelope		Added new code section C403.12. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.12.1 Heating outside a building (Mandatory)		Changed code section number C403.2.13, labeled it mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.12.2 Snow- and ice-melt system controls (Mandatory)		Changed code section number C403.2.4.5, labeled it mandatory. No change to text. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.12.3 Freeze protection system controls (Mandatory).		Changed code section number C403.2.4.6, labeled it mandatory. No change to text. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C202 FAN SYSTEM DESIGN CONDITIONS	CE122-16	Modified definition. Design supply flow rate sizing does not include economizer operating condition. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.8.1 Allowable fan horsepower (Mandatory)		Changed code section number C403.2.12.1 and edited the text. Included in CE119-16. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.10.2 Walk-in coolers and walk-in freezers	CE126-16	Changed code section number C403.2.16, labeled it mandatory. No change to text. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.10.2.1 Performance standards (Mandatory)		Added new mandatory subsection and related tables: TABLE C403.2.16.1(1), TABLE C403.2.16.1(2) and TABLE C403.2.16.1(3). Increases costs. New US federal minimum efficiency requirement for walk-in coolers and freezers. Also provides design flexibility.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases costs
C403.3.1 Equipment sizing	CE127-16	Modified equipment sizing section C403.2.2. Equipment size shall be not greater than that of the smallest available equipment size that exceeds the loads. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.3.1 Equipment sizing	CE128-16	Edited exceptions of section C403.2.2. Replaced “have the capable” with “are configured”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.1.2 Deadband		Edited section C403.2.4.1.2. Replaced “capable of providing” with “configured to provide”. Labeled it Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.1.3 Setpoint overlap restriction		Edited section C403.2.4.1.3. Replaced “provided with the capability” with “configured”. Labeled it Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C403.4.2.1 Thermostatic setback	CE128-16	Edited section C403.2.4.2.1. Removed “capabilities” from the title. Replaced “have the capability” with “be configured”. Labeled it Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.2.2 Thermostatic setback and shutdown		Edited section C403.2.4.2.2. Removed “capabilities” from the title. Replaced “capable of being adjusted” with “configured”. Labeled it Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.2.3 Automatic start		Edited section C403.2.4.2.3. Removed “capabilities” from the title. Replaced text “capable of” with “configured to”. Labeled it Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.12.2 Snow- and ice-melt system controls		Edited section C403.2.4.5. Replaced “capability of shutting” with “configured to shut” and “will allow” with “is configured to”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.5 Economizer fault detecting and diagnostics (FDD) (Mandatory)		Edited section C403.2.4.7. Replaced text “capable of providing” with “configured to provide”, “capable of reporting” with “configured to report” and “capability of detecting” with “configured to detect”. Labeled it Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.7.4 Energy recovery ventilation systems (Mandatory)		Edited section C403.2.7. Replaced text “have the capability” with “be configured”. Labeled it Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.7.5 Kitchen exhaust systems (Mandatory)		Edited section C403.2.8. Replaced “capable of” with “configured to provide”. Labeled it Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.10.2 Walk-in coolers and walk-in freezers (Mandatory)		Edited section C403.2.16. Replaced text “capable of reducing” with “configured to reduce”. It is Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C403.5.1 Integrated economizer control	CE128-16	Edited section C403.3.1. Replaced “capable of providing” with “configured to provide”. Labeled it Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.3.1 Design capacity		Edited section C403.3.3.1. Replaced text “capable of modulating” with “configured to modulate”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.3.2 Control signal		Edited section C403.3.3.2. Replaced “capable of being sequenced” with “configured to sequence the dampers”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.3.3 High-limit shutoff		Edited section C403.3.3.3. Replaced “capable of automatically reducing” with “configured to automatically reduce”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.4.1 Design capacity		Edited section C403.3.4.1. Replaced “capable of cooling” with “configured to cool”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.6.8 Set points for direct digital control		Edited section C403.4.1.3. Replaced “capable of” with “configured to provide”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.3 Hydronic systems controls		Edited section C403.4.2. Replaced text “capable of sequencing” with “configured to sequence”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.3.3.1 Temperature dead band		Edited section C403.4.2.3.1. Replaced text “have the capability” with “are configured”. No effect on cost	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.4 Part-load controls		Edited section C403.4.2.4. Replaced text “have the capability” with “are configured”. No effect on cost	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.5 Pump isolation		Edited section C403.4.2.6. Replaced text “have the capability” with “be capable of and configured”. No effect on cost	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C403.6 Requirements for mechanical systems serving multiple zones	CE128-16	Edited section C403.4.4. Deleted text “complex” from the title, replaced text “capable of being controlled” with “configured”, “capable of operating” with “configured to operate” and “capable of preventing” with “configured to prevent”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.6.2 Single-duct VAV systems, terminal devices		Edited section C403.4.4.1 Replaced text “reducing” with “and configured to reduce”. No effect on cost	Same as change between 2015 IECC and 2018 IECC	None	None
C403.6.3 Dual-duct and mixing VAV systems, terminal devices		Edited section C403.4.4.2 Replaced text “capable of reducing” with “configured to reduce”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.6.5 Supply-air temperature reset controls		Edited section C403.4.4.5 Replaced text “capable of resetting” with “configured to reset”. No effect on cost	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.3.1 Daylight-responsive control function		Edited section C405.2.3.1 Replaced text “capable of a complete” with “configured to completely”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.4 Specific application controls		Edited section C405.2.4 Replaced text “capable of” with “configured to”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C406.4 Enhanced digital lighting controls		Edited section C406.4 Replaced text “capable of” with “configured for” and deleted “capable of being”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
TABLE C403.2.3(2)	CE130-16	Updated footnotes of Table C403.2.3(2) Minimum Efficiency Requirements of electrically operated Unitary and Applied Heat Pumps. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
TABLE C403.2.3(1)	CE131-16	Updated footnotes of Table C403.2.3(1) Minimum Efficiency Requirements of electrically operated Unitary Air-conditioner and Condensing Units. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
TABLE C403.2.3(3)	CE132-16	Updated Table C403.2.3(3) Minimum Efficiency Requirements of electrically operated: Packaged Terminal Air Conditioners, Packaged Terminal Air Heat Pumps, Single Package Vertical Air Conditioners, Single Package Vertical Heat Pumps, Room Air Conditioners and Room Air Conditioner heat Pumps. US federal minimum efficiency requirement increased. Increases cost. DOE analysis shows that minimum payback period is 2.1-10.1 years.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
C403.4.1.4 Heated or cooled vestibules (Mandatory)	CE136-16	Added new code section C403.4.1.4. Defines heating and cooling temperature limits for heated or cooled vestibules and air curtain. It is mandatory. Increases cost.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost.
C202 General Definition ACCESS (TO)	CE137-16 Part I	Added new definition to replace an existing one.	Same as change between 2015 IECC and 2018 IECC	None	None
C202 General Definition READY ACCESS (TO)		Added new definition to replace an existing one.	Same as change between 2015 IECC and 2018 IECC	None	None
C105.1 General		Edited section C104.1. Deleted “accessible and”, replaced “accessible” with “visible” and “exposed” with “be able to access”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
None (see CE34-16)		Edited section C303.3. Replaced “accessible” with “visible”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.5 Economizer fault detection and diagnostics (FDD)		Edited section C403.2.4.7. Replaced text “accessible” with “available for access”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C404.6 Heated-water circulating and temperature maintenance systems		Edited section C404.6. Replaced text “accessible” with “in a location with access”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C404.9.1 Heaters	CE137-16 Part I	Edited section C404.9.1. Deleted text “readily accessible” and added “in a location with access”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.5 Manual controls		Edited section C405.2.2.3. Added text “ready access to occupants”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.3.1 Daylight-responsive control function		Edited section C405.2.3.1. Deleted text “readily accessible” and added “in a location with ready access” in item #3. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.4 Specific application controls		Edited section C405.2.4. Deleted text “readily accessible” and added “in a location with ready access” in item #4. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C408.3.1.3 Daylight responsive controls		Edited section C408.3.1.3. Deleted text “location” and “readily accessible” and added “in a location for ready access” in item #3. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.4.2 Off-hour controls (Mandatory)		Edited section C403.2.4.2. Deleted text “a readily accessible” and added “located with ready access” in item #2 in the exception section. And labeled it Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C202 General Definition ACCESSIBLE (TO)		Deleted definition for “ACCESSIBLE (TO)”.	Same as change between 2015 IECC and 2018 IECC	None	None
C202 General Definition READILY ACCESSIBLE (TO)		Deleted definition for “READILY ACCESSIBLE (TO)”.	Same as change between 2015 IECC and 2018 IECC	None	None
C202 General Definition ISOLATION DEVICES	CE138-16	Added new definition for ISOLATION DEVICES.	Same as change between 2015 IECC and 2018 IECC	None	None
C202 General Definition NETWORKED GUEST ROOM CONTROL SYSTEM		Added new definition for NETWORKED GUEST ROOM CONTROL SYSTEM.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C403.7.6 Automatic control of HVAC systems serving guest rooms	CE138-16	Added new code section C403.7.6. Control requirement for each guest room in buildings containing over 50 guest rooms. Increases cost but cost effective.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
C403.7.6.1 Temperature setpoint controls		Added new code section C403.7.6.1. Add set point temperature setback or setup control requirement when each guest room is not occupied. Increases cost but cost effective.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
C403.7.6.2 Ventilation controls		Added new code section C403.7.6.2. Controls shall be provided on each HVAC system that can automatically turn off the ventilation and exhaust fans 30 minutes after the occupant leaves the guest room. Increases cost but cost effective.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
C403.7.7 Shutoff dampers (Mandatory)	CE139-16	Edited code section C403.2.4.3. Gravity dampers shall be permitted to be used “for exhaust and relief” system. Increases cost. But exception allows alternative design for Florida climate zones 1 and 2.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
C403.7.1 Demand controlled ventilation (Mandatory)	CE141-16	Edited existing code section C403.2.6.1. Average occupant load of 25 people “or greater” per 1,000. It is Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.7.3 Ventilation air heating control. (Mandatory)	CE143-16	Added a new code section C403.7.3. This change limits heating the DOAS supply air to 60°F when the majority of the zones served by the DOAS system require cooling. It is Mandatory. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None
C403.11.2 Duct construction	CE149-16	Edited code section C403.2.9.1. No text change. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C403.11.2.3 High-pressure duct systems	CE149-16	Edited code section C403.2.9.1.3. Changes the static pressures limit to be “equal to or greater than” 3 inches of water gauge instead of “greater than”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC. <i>Needs review since it organized differently.</i>	None	None
TABLE C403.8.1 (2)	CE150-16	Editorial changes to TABLE C403.2.12.1 (2). For consistency with ASHRAE 90.1. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
TABLE C403.3.2 (8)	CE151-16	Editorial changes to TABLE C403.2.3 (8). Updates to the most recent CTI Standard for Performance Rating. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
TABLE C403.3.2 (8)	CE152-16	Changed TABLE C403.2.3 (8) minimum efficiency requirement for Propeller or axial fan closed-circuit cooling towers from 14.0 to 16.1 gpm/hp to match ASHRAE 90.1 requirement. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None (needs review)
TABLE C403.3.2 (4)	CE153-16	Changed TABLE C403.2.3 (4) minimum efficiency requirement for gas-fired and oil-fired Warm-air furnaces to match the US federal minimum efficiency requirement. Increases first cost but also decreases energy use. Affects capacity range < 225,000 Btu/h only.	FEC already meets the minimum energy efficiency requirements for warm-air furnaces. No need for change.	Decreases Energy Use	Increases cost
TABLE C403.3.2 (5)	CE154-16	Changed TABLE C403.2.3 (5) minimum efficiency requirement for hot water and steam boilers to match the US federal minimum efficiency requirement. Increases first cost but also saves energy. Affects capacity range < 300,000 Btu/h only.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
TABLE C403.7.4(2)	CE155-16	Modified TABLE C403.2.7 (2) label. Also increases the minimum ERV requirements from zero to a reasonable minimum size for smaller units. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C403.5 Economizers (Prescriptive)	CE156-16	Modified code section C403.3. Corrects gaps and conflicts in the economizer provisions. Also modified exceptions. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.3 Air economizers		Edited code section C403.3.3. Editorial correction. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5.4 Water-side economizers		Edited code section C403.3.4. Editorial correction. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C101.4.1 Mixed occupancy Residential and Commercial buildings	CE157-16 Part I	Edited code section C101.4.1. Modified the title and text of code. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C101.5 Compliance		No change to text of code section C101.5. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 STOREFRONT		Edited definition of STOREFRONT. Deleted “nonresidential”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 GROUP R		Added new definition for GROUP R. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.5 Economizers (Prescriptive)		Edited code Section C403.3. Replaced “residential” with “Group R occupancy”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C406.7 Reduced energy use in service water heating		Edited code Section C406.7. Replaced “residential” with “Group R occupancy”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
TABLE C407.5.1 (2) HVAC SYSTEMS MAP		Edited footnote “c” of existing Table C407.5.1 (2). Replaced “residential space” with “Group R occupancy”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C407.5.2.3 Group R-2 occupancy buildings		Edited code Section C407.5.2.3 title, and deleted “Residential” from text section. No effect on cost.	Same as change between 2015 IECC and 2018 IECC.	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
TABLE C403.5(2) EQUIPMENT EFFICIENCY PERFORMANCE EXCEPTION FOR ECONOMIZERS	CE158-16	Modified TABLE C403.3(2). Air economizers are allowed to be replaced with 10% more efficiency HVAC equipment in climate zones 2A, 3A, and 4A in addition to 2B, 3B, and 4B. Provides design flexibility. No effect on cost.	Same as change between 2015 IECC and 2018 IECC. But this option is not allowed in the 2017 FEC. Needs to be reviewed.	None	None
C403.4.3.3.2 Heat rejection	CE160-16	Modified code Section C403.4.2.3.2. Changed the section title. This code section applies to hydronic water loop heat pump systems in climate zones 3 through 8 by combining code subsections C403.4.2.3.2.1 and C403.4.2.3.2.2. No effect on cost.	Same as change between 2015 IECC and 2018 IECC. <i>No effect on Florida energy code since the change applies to climate zones 3 through 8.</i>	None	None
None		Deleted code subsection C403.4.2.3.2.1 without substitution. No effect on cost.	Same as change between 2015 IECC and 2018 IECC. No effect one Florida energy code.	None	None
None		Deleted code subsection C403.4.2.3.2.2 without substitution. No effect on cost.	Same as change between 2015 IECC and 2018 IECC. No effect one Florida energy code.	None	None
C403.4.4 Part-load controls	CE162-16	Modified code section C403.4.2.4. Edited the text and reduced the hydronic system capacity from 500,000 to 300,000 Btu/h for the code to be applicable. Also added new table, TABLE C403.4.4. Variable speed drive demand controlled pumps capacity limit by climate zones. Increases cost. PNNL study shows that this code change is cost effective, SIR=1.2.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
C403.4.5 Pump isolation	CE163-16	Edited code section C403.4.2.6. Replaced text “boiler plant” with “boiler system”. This is editorial change. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C403.9 Heat rejection equipment	CE165-16	Modified code section C403.4.3. Heat rejection equipment shall comply with requirements in this section with exception of heat rejection devices whose energy usage is included in the equipment efficiency rating and listed in Tables C403.2.3(6) and C403.2.3(7). Increases cost. PNNL study shows that this code change is cost effective, SIR=1.4.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
C403.9.1 Fan speed control		Modified code section C403.4.3.1. Changed the title from “General” to “Fan speed control”. Reduced the variable speed fan motor power threshold from 7.5 hp (5.6 kW) to 5 hp (3.7 kW) and modified the exception. Increases cost. PNNL study shows that this code change is cost effective, SIR=1.4.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
C403.9.2 Multiple-cell heat rejection equipment		Modified code section C403.4.3.2. Changed the title from “Fan speed control” to “Multiple-cell heat rejection equipment”. Reduced the variable speed fan motor power threshold to 5 hp (3.7 kW) and modified the exception. Increases cost. PNNL study shows that this code change is cost effective, SIR=1.4.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
None		Deleted code section C403.4.3.2.1 Fan motors not less than 7.5 hp without substitution. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
None		Deleted code section C403.4.3.2.2 without substitution. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.6 Requirements for mechanical systems serving multiple zones	CE166-16	Modified code section C403.4.4. Moved part of code text and renamed title to “Requirement for mechanical system serving multiple zones” by removing the text “complex”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C403.6.1 Variable air volume and multiple zone systems	CE166-16	Added a new code section C403.6.1 by moving part of code section C403.4.4. Replaced the proposed title “Zone controls” with “Variable air volume and multiple zone systems”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C403.6.6 Multiple-zone VAV system ventilation optimization control	CE167-16	Modified code section C403.4.4.6. Deleted exceptions for exhaust air ERV optimization item 2. This code change is cost effective in all climate zones. This code change is similar to ASHRAE 90.1-2013 addendum j.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
C403.6.7 Parallel-flow fan-powered VAV air terminal control	CE168-16	Added a new code section C403.4.4.7. Parallel-flow fan-powered VAV air terminals shall have automatic controls configured to turn-off the terminal fan when there is no heating. This is a control logic change. No effect on cost. Saves energy.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None
TABLE C404.2 MINIMUM PERFORMANCE OF WATER-HEATING EQUIPMENT	CE171-16	Updated Table C404.2, minimum efficiency values and equations of water heating equipment to meet the US federal minimum efficiency requirement. Increases equipment cost and reduces operating energy cost.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
C404.2.1 High input-rated service water-heating systems	CE172-16	Edited code section C404.2.1 for clarification. Exception is allowed when 25% or more of the service water heating requirement energy source is on-site generation. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C404.3 Heat Traps for Hot Water Storage Tanks	CE173-16	Edited code section C404.3. Editorial changes for heat trap requirement clarification. Also modified the title. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C404.7 Demand recirculation controls	CE174-16 Part I	Edited code section C404.7. Editorial changes for clarification. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 DEMAND RECIRCULATION WATER SYSTEM		Edited existing definition for “DEMAND RECIRCULATION WATER SYSTEM”. No effect on cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C404.9.3 Covers	CE177-16 Part I	Modified code section C404.9.3. Increased the energy savings threshold from 70 to 75% for pool cover exception. Defined the operating season as at least 3 months, and replaced the text “solar source” with “on-site renewable energy system”. Increases cost and decreases energy use. 7% initial cost increase.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
C405.1 General (Mandatory)	CE179-16	Modifying the exception section of C405.1 lighting system control requirements in dwelling unit and sleeping quarters of commercial buildings. No cost increase, rather it may reduce energy cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.2 Time-switch controls		Modifying code section of C405.2.2. Removed automatic lighting controls requirement exceptions for sleeping units where there is manual control. No cost increase, instead may reduce first cost.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.3 Daylight-response controls		Modified code section C405.2.3. Removed daylight response controls requirement exceptions for dwelling and sleeping units. No cost increase but may reduce first cost.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C405.2.4 Specific application controls	CE179-16	Modified code section C405.2.4. Replaced “guest suites” with “guest suites-sleeping units” for clarification. Spaces where patient care is provided is now an exception. Also added light reduction controls requirement for permanently installed luminaires in dwelling units to be per section C405.2.2.2 or C405.2.1.1 when using LPD compliance path. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.3.1 Total connected interior lighting power		Modified code section C405.4.1. Removed “Lighting in sleeping units to comply with section R404.1” from exception item 1.2. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.1 General (Mandatory)	CE180-16	Edited code section C405.1. Replaced text “Walk-in” with “Lighting installed in walk-in” and added a text “the lighting requirement of” for clarification of the language. Also changed cross-referenced code section number from C403.2.15 or C403.2.16 to C403.10.1 or C403.10.2. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2 Lighting controls (Mandatory)	CE182-16	Edited code section C405.2. Edited cross-referenced code section numbers. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.4 Specific applications controls		Edited code section C405.2.4 for editorial simplification. Lighting control by an occupant sensor shall comply with Section C405.2.1.1 and a time-switch control shall comply with section C405.2.2.1. Edited item 1 to include sub-items 1.1 through 1.4, edited item 3 to require nonvisual lighting shall be controlled using time-switch control and comply with Section Cr405.2.2.1. Deleted item 4. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
[General Definitions] C202 LUMINAIRE LEVEL LIGHTING CONTROLS	CE183-16	Added new definition C202 LUMINAIRE LEVEL LIGHTING CONTROLS. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2 Lighting controls (Mandatory)		Modified code section C405.2. Modified the code to emphasize luminaire level lighting controls (LLLC) option based on specifics of existing lighting code requirements. No cost increase. Provides design flexibility.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.1 Occupant sensor controls	CE184-16	Modified code section C405.2.1. Deleted some space types and edited some of the existing space types for clarity and consistency with other sections. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.1 Occupant sensor controls		Edited code section C405.2.1. Added new space type, "Open plan office areas". No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.1.1 Occupant sensor control function		Edited code section C405.2.1.1. Occupant sensor control requirement modified to exclude "open plan office areas". No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.1.3 Occupant sensor control function in open plan office areas	CE185-16	Added new code section C405.2.1.3. Added occupant sensor control function in open plan office areas as a requirement. Increases cost but cost effective.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
C405.2.1.1 Occupant sensor control function	CE186-16	Edited code section C405.2.1.1. Occupant sensor control requirement for warehouse shall comply with Section C405.2.1.2 and Occupant sensor control requirement for other than warehouse shall comply with Section C405.2.1. Also edited the text as well. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.1.2 Occupant sensor control function in warehouses		Code section C405.2.1.2. No change. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C405.2.1.1 Occupant sensor control function	CE187-16	Modified code section C405.2.1.1. Lights shutoff time after occupant leaves the unit reduced from 30 to 20 minutes. No cost increase but saves lighting energy significantly.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None
C405.2.2 Time-switch controls	CE188-16	Edited code section C405.2.2. Replaced text “automatic controls” with “time-switch controls” No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.2.1 Time-switch control function		Edited code section C405.2.2.1 for clarification. Edited applicable space type lists in exceptions, item 2.3. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 CAPTIVE KEY OVERRIDE	CE190-16	Added new definition for CAPTIVE KEY OVERRIDE. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.2.1 Time-switch control function		Edited code section C405.2.2.1 for clarification. Edited to use the correct terminology. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.4 Specific application controls		Edited code section of C405.2.4. Replaced text “captive key” with “card key” and “override system” with “controls” in the exceptions section. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.5 Manual controls	CE191-16	Edited code section of C405.2.2.3. Replaced text “Shall” with “They shall” to clarify the manual controls for light. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.3 Daylight-responsive controls	CE192-16	Edited code section of C405.2.3. Added a new exceptions for daylight responsive controls in new buildings with a lighting power less than or equal to a value calculated in Equation 4-9. Provides design flexibility. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C405.3 Interior lighting power requirements (Prescriptive)	CE192-16	Edited code section of C405.4. Replaced text “lighting power” with “lighting power allowance” for clarification. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.3.2 Sidelit zone	CE193-16	Edited code section of C405.2.3.2. Deleted text “Where located in existing building” to eliminate sidelit daylighting zone restriction on new buildings. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.3.3 Toplit zone		Edited existing code section of C405.2.3.3. Deleted text “Where located in existing building” to reduce toplit daylighting zone restriction on new buildings. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.4 Specific application controls	CE195-16	Edited code section C405.2.4. Deleted text “master” and “system” for clarity and may allow designers to choose less expensive option. May reduce cost while maintaining efficiency.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.6 Exterior lighting controls	CE196-16	Edited code section C405.2.5. Edited exception for lighting for covered vehicle entrance exit from building and parking structures for eye adaptation. Removed decorative gas lighting system exception. And added new exception for “Lighting controlled from within dwelling units”. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.2.6.1 Daylight shutoff		Added new code section C405.2.6.1. Lighting shall be automatically turned off when there is sufficient daylight. No cost increase.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None
C405.2.6.2 Decorative lighting shutoff		Added new code section C405.2.6.2. Decorative lighting shutoff requirement. No cost increase.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None
C405.2.6.3 Lighting setback		Added new code section C405.2.6.3. Lighting setback requirement. No cost increase.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C405.2.6.4 Exterior time-switch control function	CE196-16	Added new code section C405.2.6.4. Exterior time-switch control function requirement. No cost increase.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None
None	CE198-16	Deleted code section C405.3 without substitution. Exist signs lights wattage limits is already required by US federal regulation. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.3 Interior lighting power requirements (Prescriptive)	CE201-16	Edited code section C405.4. Added text “interior” and “allowance”. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.3.1 Total connected interior lighting power		Code section C405.4.1. No change to text. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.3.2 Interior lighting power allowance		Edited code section C405.4.2. Added text “allowance” to the title. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C406.1 Requirements		Edited code section C406.1. Deleted text “density system” from item 2. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C406.3 Reduced lighting power density		Edited code section of C406.3. Edited the text, reduced total lighting power shall be less than 90% of the total allowance and updated cross-reference code section C405.3.1. Editorial change. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
None	CE202-16	Deleted general definition of C202 LOW-VOLTAGE LIGHTING. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.3.1 Total connected interior lighting power		Edited code section C405.4.1. Edited equations, variable symbols and variables definitions in Equation 4-9 for clarity and consistent interpretation of the code. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C405.3.1 Total connected interior lighting power	CE203-16	Edited code section C405.4.1. Deleted text “Exception 1”, renumbered the items, and changed item 1 text to “TV broadcast lighting for playing areas in sports arena”. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.3.1 Total connected interior lighting power	CE204-16	Edited code section C405.4.1. Reduced the luminaire LTPB limit from 30 to 8 W/lin. ft or from 100 to 25 W/lin m. No cost increase.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Decreases cost
TABLE C405.3.2 (1)	CE205-16	Added footnotes “a”, “b”, and “c” to LPD Table C405.4.2(1) for clarification for dwelling and sleeping units. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
TABLE C405.3.2 (2)		Added footnotes “c” and “d” to LPD Table C405.4.2(2) for clarification for dwelling and sleeping units LPD. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
TABLE C405.3.2 (1)	CE206-16	Reduced the LPD values in Table C405.4.2(1) for most of the building area types. Increases cost also but decreases energy use. Cost effective especially when the 2018 code become into effect due to decline in LED first cost and maintenance cost.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
TABLE C405.3.2 (2)		Reduced LPD values in Table C405.4.2(2) for most of the space types. Cost effective especially when the 2018 code become into effect due to decline in LED first cost and maintenance cost.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
TABLE C405.3.2 (2)	CE207-16	Added footnotes “c”, “d”, “e” and “f” to an existing Table C405.4.2(2) for clarification for Class I, II, III, and IV for sport arena facilities LPD. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C405.3.2.2.1 Additional interior lighting power	CE209-16	Modified code section C405.4.2.2.1. Edited equation 4-10 and LPD values of additional lighting power allowance for retail display area. Increases cost but not life cycle cost, and decreases energy use. This is cost effective due to no net increase in life cycle cost.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None
C405.3.2.2.1 Additional interior lighting power	CE210-16	Modified code section C405.4.2.2.1. Edited equation 4-10 and LPD values of additional lighting power allowance for retail display area. Excludes museum exhibition areas for additional lighting power allowance. Increases cost but not life cycle cost, and Decreases Energy Use. This is cost effective due to no net increase in life cycle cost.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None
C405.4 Exterior lighting power requirements (Mandatory)	CE211-16	Modified code section C405.5. Added text “power requirement” to the title. Calculated lighting power allowance per section C405.5.1 shall not be greater than the value calculated per section C405.5.2. And deleted exceptions. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.4.1 Total connected exterior building exterior lighting power		Modified code section C405.5.1. Deleted the text “Exterior” and added text “Total connected” to the title. Modified the definition of the total connected power. Also added exceptions to the total connected power calculations. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.4.2 Exterior lighting power allowance		Added new code section C405.4.2. This new section clarifies how the exterior lighting power allowance is calculated. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
Table C405.4.2(2) LIGHTING POWER ALLOWANCES FOR BUILDING EXTERIORS	CE211-16	Edited Table C405.5.2.(2). Deleted “Individual” from the title and moved the non-tradable surface section to create a new Table C405.4.2(3). This change was made for clarity. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
Table C405.4.2(3) Exterior lighting power allowance		Added a new Table C405.5.2(3) for clarity. Created a new table for non-tradeable surfaces from Table C405.5.2(2). No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.4.2.1 Additional exterior lighting power		Added new code section C405.4.2.1 for clarity. Additional exterior lighting power allowance is limited to applications listed in the new Table C405.4.2(3). No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.4.1 Total connected exterior building exterior lighting power	CE212-16	Modified code section C405.5.1. Deleted item 9 and added new items 9-11 in the exceptions to make IECC-2018 consistent with ASHRAE 90.1-2016. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.4.3 Gas lighting (Mandatory)	CE213-16	Added new code section C405.4.3. Gas-fired lighting appliances shall not have continuously burning pilot ignition systems. Increases first cost slightly but has significant energy saving.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
Table C405.4.2(2) LIGHTING POWER ALLOWANCES FOR BUILDING EXTERIORS	CE215-16	Modified Table C405.5.2(2). Reduced the exterior lighting power allowance values for tradable exterior building surfaces and modified the table format. No cost increase.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None
Table C405.4.2(3) INDIVIDUAL LIGHTING POWER ALLOWANCES FOR BUILDING EXTERIORS		Modified Table C405.5.2(2). Reduced the exterior lighting power allowance values for non-tradable exterior building surfaces and modified the table format. No cost increase.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None
C405.6 Electrical transformers (Mandatory)	CE220-16	Modified code section C405.7. Replaced text “Electric” with “Low-voltage dry-type distribution” for consistency with Table C405.7. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
Table C405.6 MINIMUM NOMINAL EFFICIENCY LEVELS FOR 10 CFR 431 LOW-VOLTAGE DRY-TYPE DISTRIBUTION TRANSFORMERS	CE221-16	Modified Table C405.7. Added a decimal point to minimum efficiency values for single-phase transformers and increased baseline minimum efficiency values of three-phase transformers due to change in US federal energy efficiency standard. No cost increase but Decreases Energy Use due to efficiency increase.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None
[General Definitions] C202 GENERAL PURPOSE ELECTRIC MOTOR (SUBTYPE II)	CE223-16	Deleted general definition of GENERAL PURPOSE ELECTRIC MOTOR (SUBTYPE II) without substitution. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 GENERAL PURPOSE ELECTRIC MOTOR (SUBTYPE I)		Deleted general definition GENERAL PURPOSE ELECTRIC MOTOR (SUBTYPE I) without substitution. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 IEC DESIGN H MOTOR		Added new general definition for IEC DESIGN H MOTOR. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 IEC DESIGN N MOTOR		Added new general definition for IEC DESIGN N MOTOR. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 NEMA DESIGN A MOTOR		Added new general definition for NEMA DESIGN A MOTOR. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 NEMA DESIGN B MOTOR		Added new general definition for NEMA DESIGN B MOTOR. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 NEMA DESIGN C MOTOR		Added new general definition for NEMA DESIGN C MOTOR. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C405.7 Electrical motors (Mandatory)	CE223-16	Modified code section C405.8. Added new exceptions for electric motors from minimum efficiency requirements. No cost increase.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None
Table C405.7(1) MINIMUM NOMINAL FULL-LOAD EFFICIENCY FOR NEMA DESIGN A, NEMA DESIGN B, AND IEC DESIGN N MOTORS (EXCLUDING FIRE PUMP ELECTRIC MOTORS AT 60 HZ)		Modified Table C405.8(1). Modified table format and increased electric motors minimum efficiency requirements due to new US federal minimum motor efficiency change and added new footnotes to this table for clarification. Increases cost but also decreases energy use compared to the previous minimum efficiency. Cost effective with payback period of 2.9 – 4.5 years.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
Table C405.7(2) MINIMUM NOMINAL FULL-LOAD EFFICIENCY FOR NEMA DESIGN C AND IEC DESIGN H MOTORS AT 60 HZ		Modified Table C405.8(2). Modified table format and increased electric motors minimum efficiency requirements due to new US federal minimum motor efficiency change and added new footnotes to this table for clarification. Cost effective with payback period of 2.9 – 4.5 years.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	Increases cost
C405.8.2 Escalators and moving walks	CE224-16 (CE209-16)	Modified code section C405.9.2. Added exception as an alternative to speed reduction automatic control when there is light load. No cost increase, in some cases may reduce first cost and provide design flexibility.	Same as change between 2015 IECC and 2018 IECC	None	None
[General Definitions] C202 VOLTAGE DROP	CE226-16	Added new general definition for VOLTAGE DROP. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C405.9 Voltage drop in feeders and branch circuits		Added new code section C405.9. Added to limit voltage drop allowed to 5% to be consistent with ASHRAE 90.1-2016 requirement. Increases cost.	FEC already has this code requirement in section C405.6.3 Voltage drop. No cost effect on FEC.	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C406.1 Requirements	CE230-16	Modified code section C406.1. Added two more compliance alternatives for Efficiency Packages. No cost increase, may even reduce first cost due to design flexibility.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None
C406.8 Enhanced envelope performance		Added new code section C406.8. Total UA design value shall be not less than 15% below the total UA value per section C402.1.5. No cost increase.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None
C406.9 Reduced air infiltration		Added new code section C406.9. Whole building pressure test is required and measured air leakage of the building envelope shall be less than 0.25 cfm/ft ² under a pressure difference of 0.3 in (75 Pa). Exception applies if the conditioned floor area is greater than 250,000 ft ² . No cost increase.	Same as change between 2015 IECC and 2018 IECC	Decreases Energy Use	None
C406.1.1 Tenant spaces	CE235-16	Modified code section C406.1.1. Added exception for previously occupied spaces in accordance with section C501. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C406.5 On-site renewable energy	CE242-16	Edited code section C406.5 for clarification. Added threshold for equipment rated capacity in IP units. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C406.7.1 Load fraction	CE246-16	Edited code section C406.7.1 for clarification of the original intent. Added text “the building’s annual”, deleted text “a combined heat and power system” and replaced “Solar” with “On site renewable energy”. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C407.1 Scope	CE248-16 Part I	Modified code section C407.1. Added exception for clarification. Energy used to recharge or refuel vehicles used for transportation shall not be included in building energy performance calculation. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C407.3 Performance-based compliance	CE250-16	Edited code section C407.3. Replaced the text “nondepletable” with “on-site renewable energy”. Also added new text that renewable energy purchased from off-site sources shall be the same in the standard reference and the proposed design building. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C407.3 Performance-based compliance	CE251-16	Modified code section C407.3. The reduction in energy cost of the proposed design associated with on-site renewable energy shall be not more than 5% of the total energy cost. Also requires that renewable energy purchased from off-site sources shall be the same in the standard reference and the proposed design. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C407.4.2 Additional documentation		Modified code section C407.4.2. Added new item 6, code official is permitted to request documentation on the reduction of energy use associated with on-site renewable energy. No cost increase.	Same as change between 2015 IECC and 2018 IECC. This change will be item 5 for FBC.	None	None
TABLE C407.5.1(1) SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS	CE256-16	Modified TABLE C407.5.1(1). Added exceptions to the schedules of <i>Standard Reference Design</i> thermostat and HVAC operation for radiant cooling or heating and elevated air speed application. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
TABLE C407.5.1(1) SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS	CE259-16 Part I	Edited TABLE C407.5.1(1). Editorial changes to vertical fenestration other than opaque, doors and skylight sections of <i>Standard Reference Design</i> for clarification. No cost increase.	FEC already has incorporated these editorial code changes.	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C408.1 General	CE260-16	Modified code section C408.1. Added text “service water heating systems in section C404” for clarification. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C408.2.4 Preliminary commissioning report	CE265-16	Modified code section C408.2.4. Added a text that cross-references a new Commissioning Compliance Checklist Figure C408.2.4. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
TABLE C408.2.4.1 COMMISSIONING COMPLIANCE CHECKLIST		Added new checklist Figure C408.2.4. Added Commissioning Compliance Checklist that assists final inspection in the field. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C408.2.4 Preliminary commissioning report	CE266-16	Modified code section C408.2.4. Added two new requirement items 4 and 5 (functional performance tests and testing procedure reports). No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C103.6 Building documentation and closeout submittal requirements	CE268-16	Added new code section C103.6. Added documentation and closeout submittal requirements. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C103.6.1 Record documents		Added new code section C103.6.1. Construction documents shall be updated to convey a record of the completed work. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C103.6.2 Compliance documentation		Added new code section C103.6.2. All energy code compliance documentation and supporting calculations shall be delivered in one document to the building owner. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C103.6.3 Systems operation control		Added new code section C103.6.3. Describes training requirements to those responsible maintaining equipment and training manual requirements. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
None		Delete code section C408.2.5.1 without substitution. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
None	CE268-16	Delete code section C408.2.5.2 without substitution. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C408.2.5.1 System balancing report		Edited code section C408.2.5.3. Changed section number to C408.2.5.1. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C408.2.5.2 Final commissioning report		Edited code section C408.2.5.4. Changed section number to C408.2.5.2. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C501.4 Compliance	CE274-16 Part I	Edited code section C501.4. Added missing text “this code” and “International Existing Building Code” for clarification. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C502.1 General	CE276-16	Edited code section C502.1. Added text “Sections C402, C403, C404, C405” for clarification. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C503.1 General		Edited code section C503.1. Added text “Section C503” for clarification. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C503.1 General	CE279-16	Modified code section C503.1. Deleted exception item 7. No cost increase.	Same as change between 2015 IECC and 2018 IECC	None	None
C503.2 Change in space conditioning	CE285-16	Modified code section C503.2. Added exception items 1 and 2 for component performance alternative method. Decreases cost by providing cost effective design alternative.	Same as change between 2015 IECC and 2018 IECC	None	Decrease cost
C505.1 Change in space conditioning		Modified code section C505.1. Added exceptions 1 and 2 for component performance alternative and total building performance methods, respectively. These exceptions are less stringent and providing design flexibility. May reduce construction cost.	Same as change between 2015 IECC and 2018 IECC	None	Decrease cost
C503.3 Building envelope	CE286-16	Modified code section C503.3. Added exception on fenestration area limitation for fenestration alteration in existing buildings. Decreases cost by providing cost effective design alternative.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
C503.3.2 Vertical fenestration	CE286-16	Modified code section C503.3.2. Updated cross-referenced code sections. Added design alternative as an option for fenestration replacement during alteration when the fenestration area remains the same. Decreases cost by providing cost effective design alternative for existing building.	Same as change between 2015 IECC and 2018 IECC	None	None
C503.3.3 Skylight area		Modified code section C503.3.3. Added design alternative as an option for skylight replacement during alteration when the skylight area remains the same. Decreases cost by providing cost effective design alternative for existing building.	Same as change between 2015 IECC and 2018 IECC	None	None
C505.1 General		Modified code section C505.1. Added design alternative as an exception for a space undergoing occupancy change or use in a building with fenestration area exceeding the limitation of C402.4.1 provided the fenestration area remains the same. Decreases cost by providing cost effective design alternative for existing building.	Same as change between 2015 IECC and 2018 IECC	None	None

Table A: Commercial Code Change Summary for 6th Edition (2017) Florida Energy Code vs. 2018 IECC (continued)

2018 IECC Section and Title	ICC Code Change No	Change Summary b/t 2015 IECC and 2018 IECC	Change Summary b/t 2017 FEC and 2018 IECC	Anticipated Energy Impact on FEC if Adopted*	Anticipated Cost Impact on FEC if Adopted*
APPENDIX AC: SOLAR READY ZONE - COMMERCIAL					
CA101.1 General	CE294-16	Added new code section CA101.1. Non-mandatory.	Same as change between 2015 IECC and 2018 IECC	None	None
CA102 GENERAL DEFINITIONS		Added new definition for SOLAR READY ZONE. Non-mandatory.	Same as change between 2015 IECC and 2018 IECC	None	None
CA103.1 General		Added new code section CA103.1. Non-mandatory.	Same as change between 2015 IECC and 2018 IECC	None	None
CA103.2 Construction document requirements for solar ready zone		Added new code section CA103.2. Non-mandatory. Increases cost.	Same as change between 2015 IECC and 2018 IECC	None	Increases cost
CA103.3 Solar ready zone area		Added new code section CA103.3. Non-mandatory. Increases cost.	Same as change between 2015 IECC and 2018 IECC	None	Increases cost
CA103.4 Obstruction		Added new code section CA103.4. Non-mandatory.	Same as change between 2015 IECC and 2018 IECC	None	None
CA103.5 Roof loads and documentation		Added new code section CA103.5. Non-mandatory. Increases cost.	Same as change between 2015 IECC and 2018 IECC	None	Increases cost
CA103.6 Interconnection pathway		Added new code section CA103.6. Non-mandatory. Increases cost.	Same as change between 2015 IECC and 2018 IECC	None	Increases cost
CA103.7 Electrical service reserved space		Added new code section CA103.7. Non-mandatory. Increases cost.	Same as change between 2015 IECC and 2018 IECC	None	Increases cost
CA103.8 Construction documentation certificate		Added new code section CA103.8. Non-mandatory. Increases cost.	Same as change between 2015 IECC and 2018 IECC	None	Increases cost