**7th Edition (2020) Florida Building Code, Energy Conservation Volume**

**vs. 2018 International Energy Conservation Code**

**Residential Stringency Analysis**

Proposal to:

Florida Department of Business and Professional Regulation

From:

University of Central Florida, FSEC Energy Research Center

# Scope of work

The University of Central Florida, FSEC Energy Research Center (“Contractor”), shall provide a recommendation as to whether the residential provisions of the state's latest Energy Conservation code, the 7th Edition (2020) Florida Building Code, Energy Conservation (FBCEC), meet or exceed the residential provisions of the 2018 International Energy Conservation Code (IECC) regarding building energy efficiency.

The process of determining the recommendation will involve two tasks:

1. Review and list the impactful residential provision differences between the 7th Edition (2020) FBCEC and 2018 IECC. A short summary analysis of each impactful difference will also be provided.
2. Assess the impactful residential provision differences between the 7th Edition (2020) FBCEC and 2018 IECC. This assessment will be conducted for:
   1. The Prescriptive R-value computation method
   2. The Simulated Performance Alternative method, and
   3. The Energy Rating Index (ERI) method.

The assessment will include annual energy cost simulations using EnergyGauge USA software which is currently used for residential 2017 FBCEC and 2018 IECC compliance. Prescriptive and Performance compliance method simulations will be run for a single-story, single family home, a two-story, single family home and a multifamily unit in three Florida cities: Miami, Tampa and Jacksonville.

# Deliverables

1. The Contractor shall provide a draft report that includes the Task 1 impactful provision differences listing and Task 2 assessment results and discussion, and a recommendation as to whether the residential provisions of the 7th Edition (2020) FBCEC meet or exceed the residential provisions of the 2018 IECC regarding building energy efficiency. The draft report shall be delivered by October 30, 2020. The due date may be extended with the approval of the Department of Business and Professional Regulation’s (“Department’s”) Project Manager.
2. A final report shall be delivered within two (2) weeks of receipt of review comments provided by the Program Manager. The due date may be extended with the approval of the Department’s Project Manager.

# Method of Payment

# A purchase order will be issued to the University of Central Florida, FSEC Energy Research Center. The project shall start on the date of execution of the purchase order and end at 11:59pm on November 30, 2020. The purchase order shall not exceed $11,000 and shall cover all costs for labor, materials, and overhead. Payment will be made after the Department’s Program Manager has approved the final report. Additionally, the Contractor agrees to provide additional documentation requested by the Program Manager to satisfy all payment and audit requirements.

# Performance Measures

The University of Central Florida and the FSEC Energy Research Center are solely and uniquely responsible for the satisfactory performance of the tasks and completion of the deliverables as described in this Scope of Work.

# Program Manager

The Program Manager for this project is Mo Madani. Mo Madani’s email address is [Mo.Madani@myfloridalicense.com](mailto:Mo.Madani@myfloridalicense.com) and his phone number is 850-717-1823.