Title Page:  Buildings and Energy: Design and Operation Vs. Sustainability  
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Project end date: May 15, 2015

Summary
To achieve higher standards in building design and operation, a solid foundation of energy engineering and sustainability principles is essential. At UF engineering, there are no courses offered to students and industry professionals in energy topics particularly related to buildings, specifically for the design and operation in Florida climate conditions. This project fills this void through the development of an energy engineering course.

Goals and Objectives
1. To develop and offer an online undergraduate/graduate energy engineering course for Florida-specific building design and operation.

Project Activities, Results and Accomplishments
Progress made (as of 10.09.2014):
- The undergraduate / graduate course officially commenced in Fall 2014. The corresponding UF official course numbers are: EML 6934 / EML 4930.
- This course is also available via UF Edge (online course). Video recordings of all lectures are available in UF Edge for access by students taking the online version of this course.
- Currently, there are 13 students (8 graduate students and 5 undergraduate students) enrolled in its first term. More students and industry professionals are expected to join in the coming years as the course is advertised via UF Edge.
- For the benefit of the State of Florida, the building energy modeling project specifically focuses on a retrofit of an existing building in UF campus, i.e., Rinker Hall. The selection of this retrofit project was crucial as students will learn the issues related to Florida-specific climate and the nuances of modeling, calibration, and improving building energy efficiency.
- Besides the primary course faculty (PIs), guest lecturers participated in this course.

Concluding Remarks
This engineering course is a game-changer in respect to buildings and energy. As the course delivery is completed by end of Fall term, the PIs have planned to focus on advertising this course to industry professionals in the State of Florida with a view to greater enrollment and impact in subsequent offerings.

Patents
None.

**Publications**
None.

**Attachments**
None.