

BUILDING ENERGY CODES PROGRAM

U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy



**NASEO Annual Meeting:
Measuring Commercial Energy
Codes**

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DOE Building Energy Codes Program

Residential vs Commercial Studies

	Residential	Commercial
Construction Cycle	3-9 months	6 months – 4 years
Building Official Knowledge	Probably OK	Probably shaky
Effort for one home/building	< 1 hour	Hours? Days?
Building Types	3	12-100
HVAC System Types	2-3. One per home	Many. Often >1 per building
Envelope Systems	1	Many
Controls	1 thermostat	1000s of sensors/software
Lighting	A few sentences in code	Table after table in code. 2 approaches.

Three projects to be completed in 2016:

- Level of effort to determine energy savings potential
- Plans vs As-Constructed Buildings
- Controls presence and function