
2018 IECC Commercial

Jim Edelson
DOE Codes Conference
Tucson, AZ

Topics

- Packages ✓
- Renewables ✓
- Multifamily
- Lighting
- Existing Buildings

Just scratching the surface.....of 296 proposals!

Multifamily Energy Codes

High-Rise Multifamily:

- 4 or more stories
- Regulated in Commercial Chapter



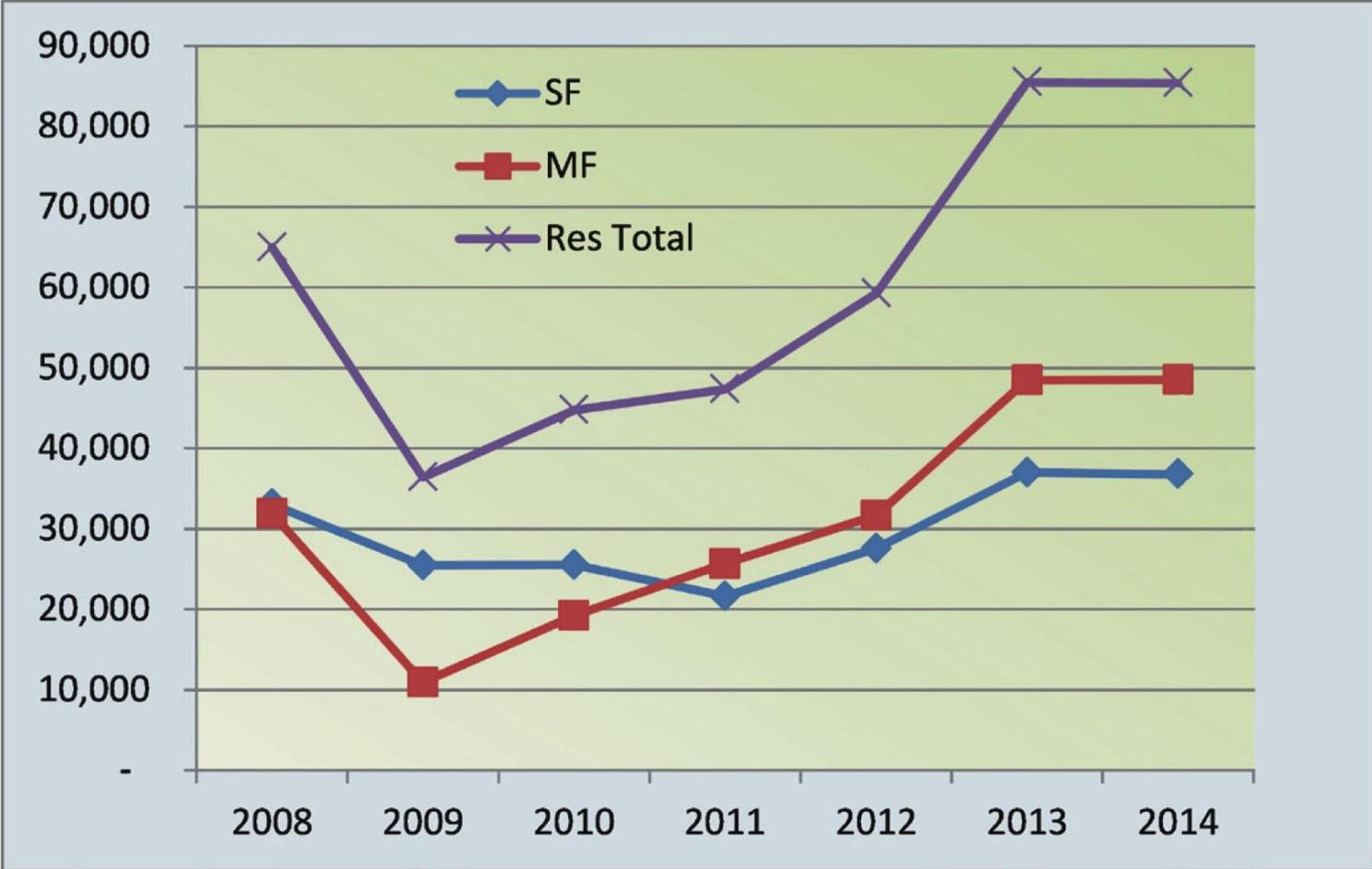
2015 INTERNATIONAL Low-Rise Multifamily:

- 3 or fewer stories
- Regulated in Residential Chapter



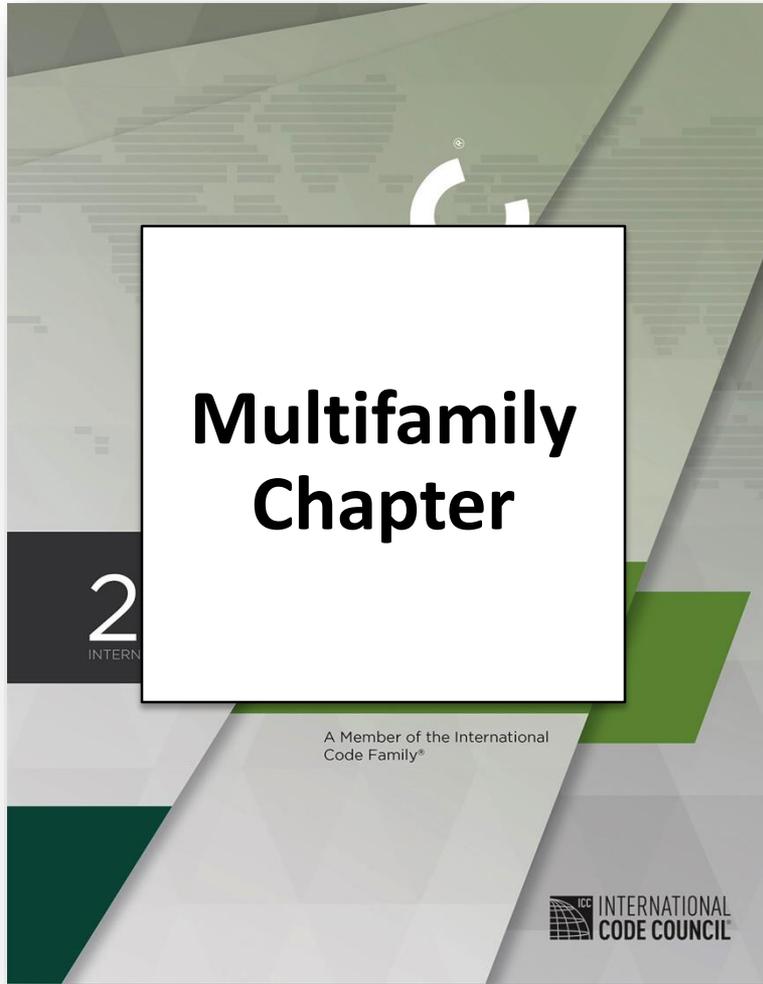
INTERNATIONAL
CODE COUNCIL

Need and Purpose



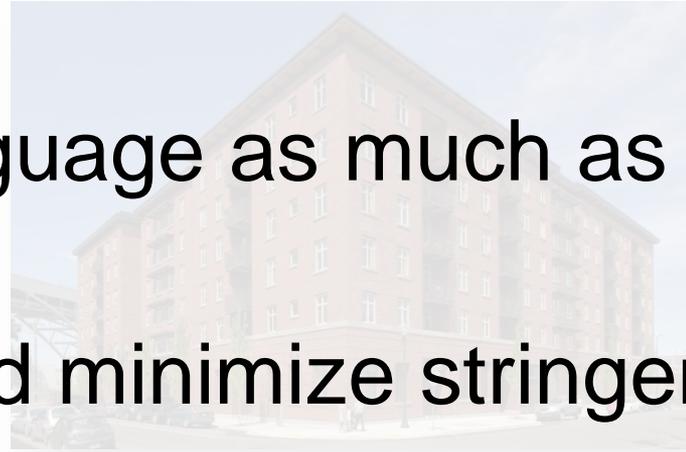
Residential Construction in California

CE272-16



CE272 - Code Language Principles

1. Leverage existing language as much as possible
2. Focus on structure and minimize stringency impact
3. Focus on usability and enforceability
4. Satisfy ICC Rules and Processes



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CE272 - Code Proposal Structure

1. Completely scrambled in publication
2. New Chapter 6 / C601-C608
3. New definition “multifamily building” alters definition of “commercial” and “residential”
4. Mostly rearranges content into one chapter but modifies some requirement thresholds based on tenant space /common area



A Multifamily Code, 5 Reasons Why:

- **Reason 1:** Confusion in Market/Enforcement
- **Reason 2:** Neither Part of the Code Applies Well to Multifamily
- **Reason 3:** Code Development Process is Held Up by Issues Unique to Multifamily
- **Reason 4:** The Divided Market Makes it More Difficult to Create Above-Code Standards and Administer Utility Incentive Programs
- **Reason 5:** Divided Regulation Makes It Difficult to Advance Multifamily-Specific Issues in Code

High Efficacy Lighting

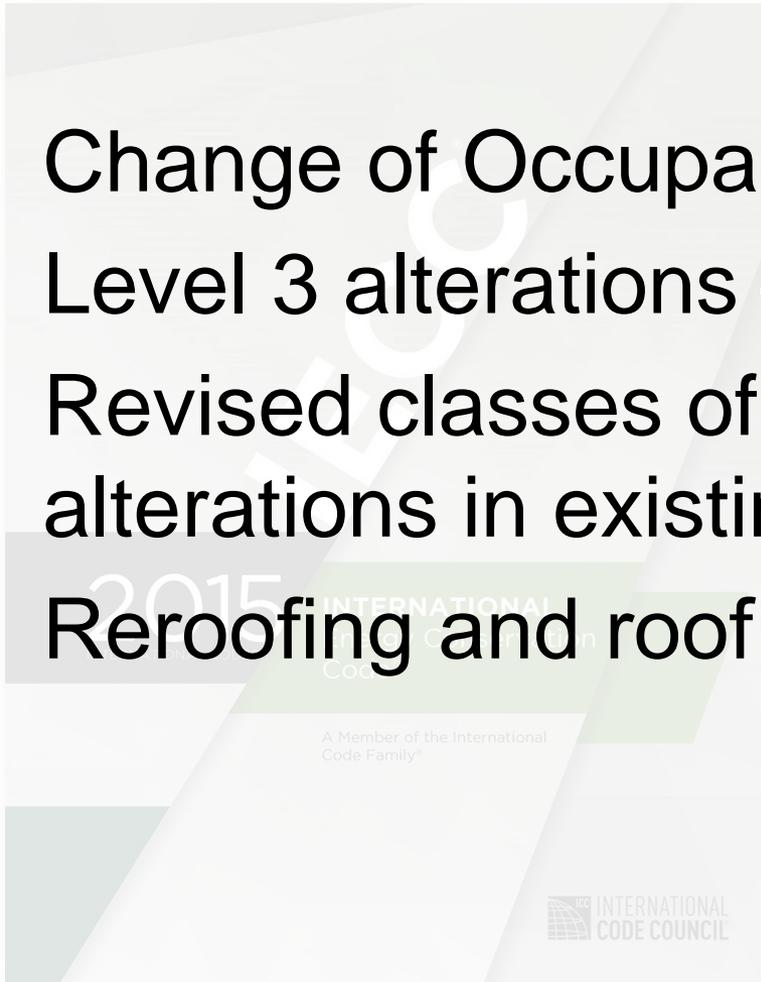


Based on increased efficacies - LEDs

- Interior LPDs
- Display/task lighting
- Agricultural lighting
- Exterior LPAs
- Grounds lighting

Existing Buildings

1. Change of Occupancy - CE 292
2. Level 3 alterations – CE 277
3. Revised classes of lighting repairs and alterations in existing buildings – CE 291
4. Reroofing and roof replacements...



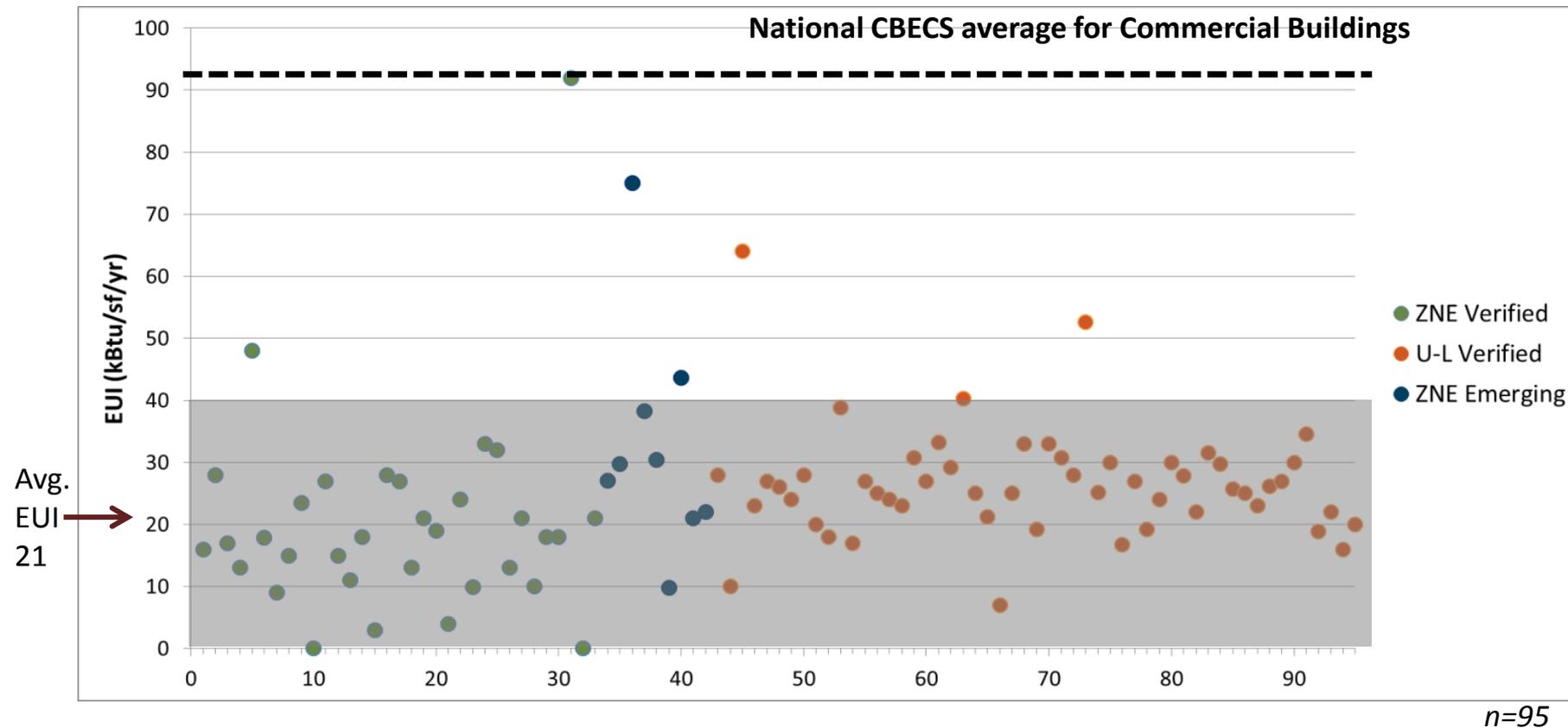
2018 IECC and February, 2016

NOAA scientists on record temperatures

- 2.18 degrees above normal (global)
- 10.4 degrees above normal (Arctic land)
- “The departures (from normal) are what we could consider astronomical.”
- The numbers are “staggering”
- 'It's on land. It's in the oceans. It's in the upper atmosphere. It's in the lower atmosphere. The Arctic had record low sea ice..... It's insane.'

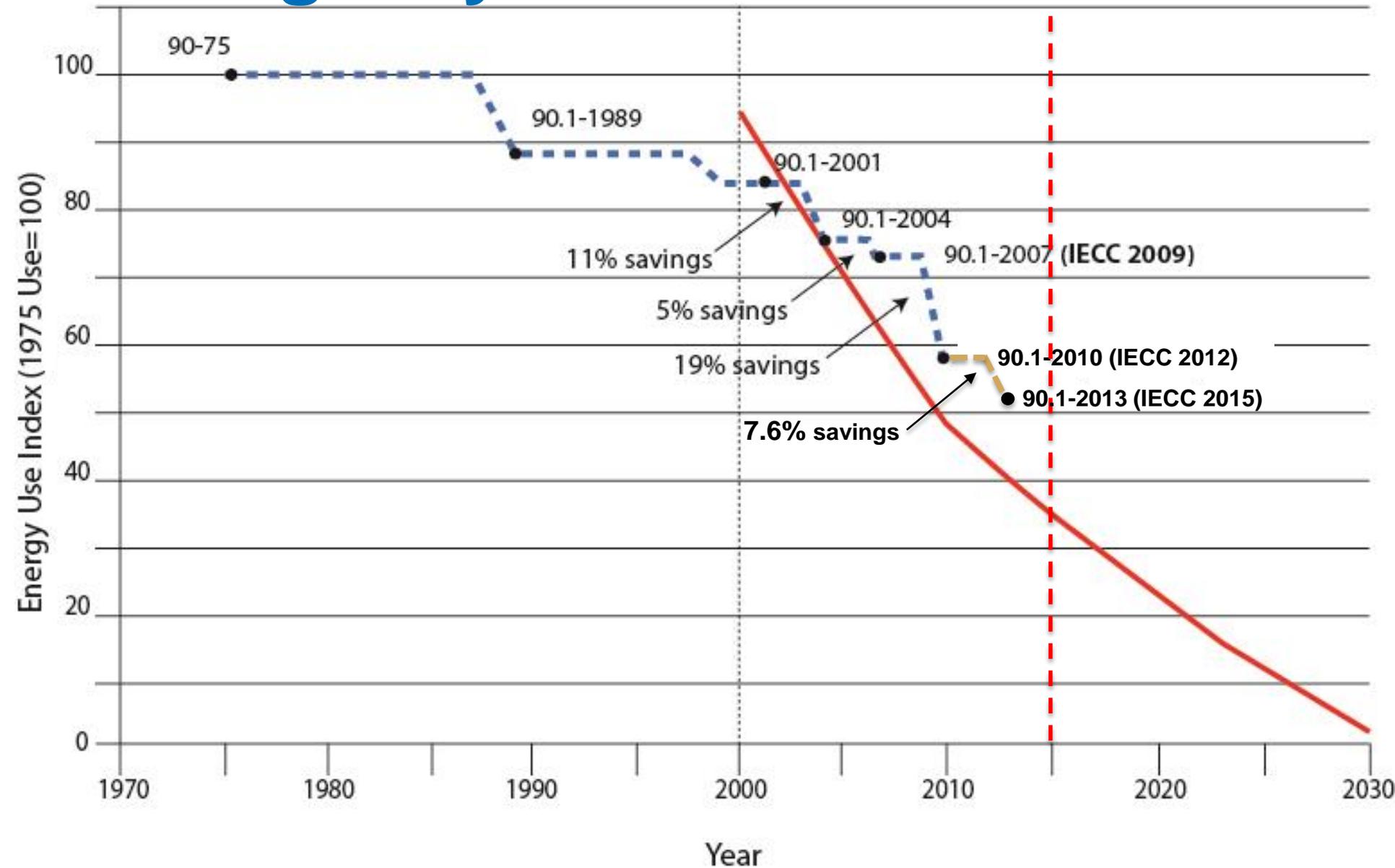
EUI = 21

(all projects w/ measured performance data)



Advancing Energy Code Stringency

- Year 2000 Baseline
- A2030 Goals
- Code Stringency



NBI Identified Code Challenges/Opportunities

- Plug/Process Loads ✓
- Federal Pre-emption ✓
- System / Material Neutrality ✓
- Energy Intensive Building Types
- Trade-offs with Renewables ✓
- Existing Buildings ✓
- Operations and Outcomes ✓

.....**Getting to Zero by 2030**



Questions?

