

Market Driven Residential Energy Codes

Rob Vieira, FSEC and Michelle Britt, International Code Council

- 1) **Objective:** Empirical determination of energy and cost effectiveness impacts of principal residential code compliance methods - prescriptive versus performance - using utility billing analysis. Determine the greatest level of cost effective efficiency achievable in a market-driven energy code environment. How can code compliance and technology gaps be best overcome using market driven Energy Code approaches?
- 2) **Impact:** Improved code compliance and residential efficiency through energy code consistency and market-driven cost effectiveness. Potential positive implications of electronic code permitting and enhanced energy code labeling.
- 3) **Partners:** International Code Council, RESNET(in kind).

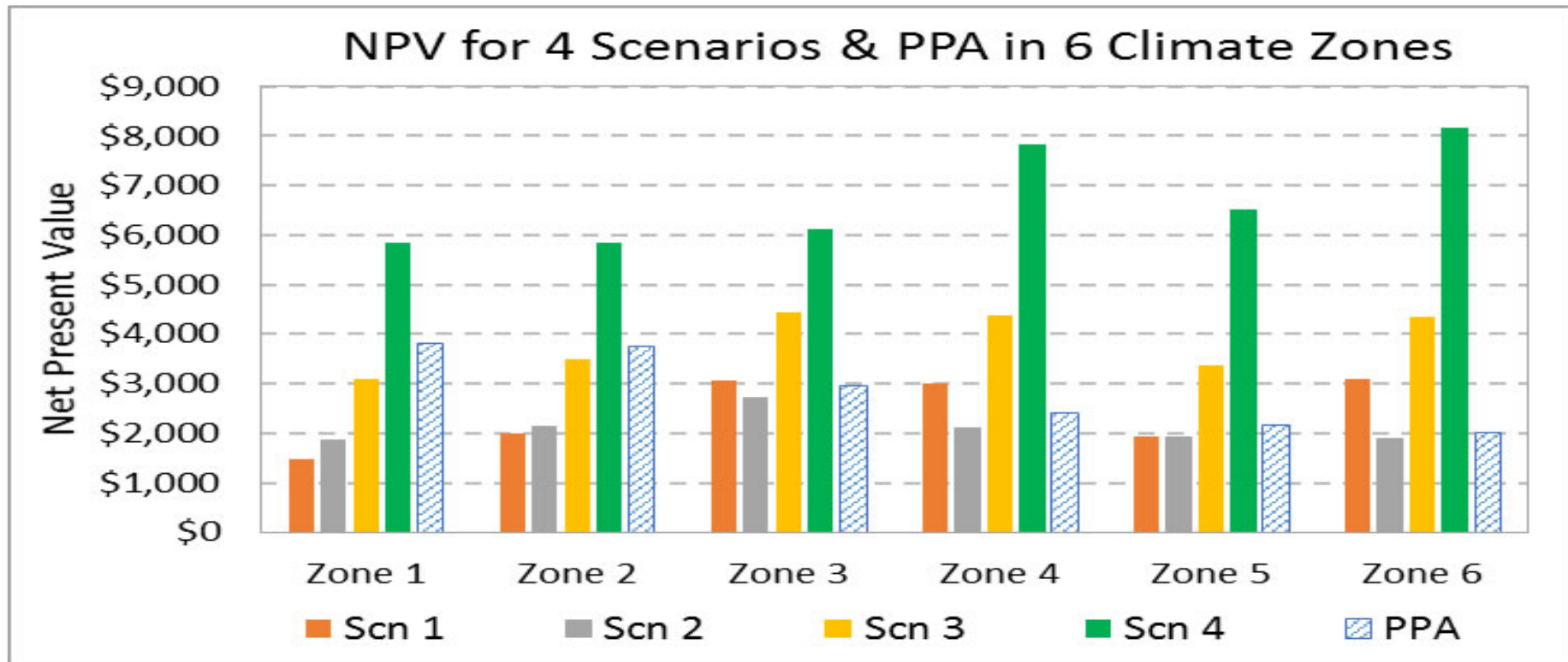


What we want help with:

Suggestions of specific code jurisdiction locations or neighboring areas where both performance-based and prescriptive-based residential codes are widely implemented.

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Comparison of IECC Pres. (Scn 1), ERI base + PV (Scn 2), IECC Pres. with PV (Scn 3), ERI base + eff. (Scn 4), and ERI base + PPA PV (PPA)

- Does performance path correlate to energy savings?
- What are compliance issues and technology gaps?
- What should be included in specifications for electronic compliance tools?

Public Releasable Content

Market Driven Residential Energy Codes Planned Tasks

- 1. Utility Bill Comparison of Prescriptive and Performance Path Homes in Comparable Code and Climate Regions**
- 2. Survey of Code Officials about Prescriptive and Performance Paths Topics**
- 3. Identify Code Holes, Exceptions, Technology Voids and Estimate Potential Energy Impact**
- 4. Estimate Energy Impact in Each Climate Zone using Each Method of Compliance**
- 5. Evaluate cost effectiveness of energy code compliance paths**
- 6. Evaluate marketplace uptake and effectiveness of energy code compliance labeling**
- 7. Policy and Procedures on Minimum Requirements for Fully Electronic Energy Code Permitting and Compliance Mechanisms**
- 8. Building Energy Codes Program Support Activities**