NEBRASKA GAP ANALYSIS & COMPLIANCE OUTLINE

Nebraska Energy Codes Compliance Collaborative

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BCAP Dedicated to the adoption, implementation, and advancement of building energy codes
Project Overview
Our mission is to reduce the energy consumed in the construction and operations of buildings by working with national, state, and local governments and other stakeholders to promote the adoption and implementation of building codes and standards.
Compliance Planning Assistance (CPA) Program

Gap Analysis Report:
22 states, identified areas states were lacking toward compliance and identified recommendations.

Strategic Compliance Plan:
18 states, provided ideas for executing recommendations in the form of action items and projects.

Link to Project >
CPA Background

• BCAP worked with states all over the country to identify the gaps unique to their circumstances

• A common best practice emerged: Energy Code Collaborative
Compliance Collaboratives

- Bring together the key players in code adoption and implementation for an individual state
- Ensure all stakeholders have a voice
- Develop a state strategy for meeting energy code compliance
- May serve as an advisory board to state department or policy makers
Collaborative Project

• BCAP assisting states in forming “Collaboratives” (CO, DE, NH, NV, TX)

• Funded through the summer of 2013

• A follow-up from the Gap Analysis report
Compliance Collaboratives
Purpose of a Collaborative

- A collaborative brings together expert stakeholders to help solve problems, work on solutions together
  - Example: Gov. Dave Heineman signed a letter ensuring implementation of a plan by 2017 to ensure compliance with energy codes
  - Can help jurisdictions with compliance, M&V
Gap Analysis: Key Findings
Gap Analysis Report

- Published June 2011
- Researched energy code activity, state/local best practices, and opportunities
- BCAP worked with NEO throughout process
State Overview

• Only state with 100% public power
• Large majority of construction activity in the Omaha and Lincoln metro areas
• Construction took a big hit in recent years, though has started to tick back up again
• Imported coal/gas supplies about 2/3 of the state’s electricity (remainder: nuclear)
  – Imported energy = exported $ from economy
Overview: State and Local Codes

• Nebraska Energy Code (2009 IECC)
  – Unicameral had passed legislation adopting 2009 IECC (August 2011)
  – Applies to state-funded buildings too

• Now, jurisdictions in Omaha metro area (and Lincoln) are considering local above adoptions of the 2012 IECC
Key Findings (GAPS)

• Inconsistent code implementation and enforcement in rural and unincorporated areas

• M&V: Compliance evaluation conducted for 2003 IECC, but need to establish baseline for 2009 IECC measurement

• Information always needed
  – Training | Codebooks | Consumer outreach
Residential Cost-Effectiveness:
2009 IECC - Mortgage Payback

- Added first costs: $400 (~ 0.1% average)
- Additional down payment amount: $80
- Additional monthly mortgage cost: $2
- Breakeven point: 5 months
- Annual profit after breakeven: $215
- 30-year net energy savings: $5,000+
Gap Analysis: Recommendations
Recommendations: Adoption

• Assess the impact of non-compliance in rural areas of the state
• Devote resources to assist adoption in rural areas
• Adopt above-code for state-funded buildings; lead by example/market transformation
Recommendations: Implementation

• Assist with enforcement in struggling jurisdictions
  – Energy Code Ambassadors Program (ECAP)
  – Provide specific enforcement standards
  – Consider subsidizing training, 3rd party inspections

• Work with professional associations to require continuing energy code education as part of certification

• Develop a M&V strategy

• Launch consumer outreach campaign

• Create a Compliance Collaborative!
Strategic Energy Codes Plan

- Published June 2011
- Based on Gap Analysis recommendations
- Not a complete plan to achieve compliance goals, but identifies best pathways

Link >
Example Focus Areas

1) Secure Funding
2) State & Local Policy
3) Outreach
4) Training
5) Compliance Evaluation (M&V)
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What goals and focus areas should the Nebraska Collaborative pursue?
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