

New Hampshire's Energy Code Compliance Program

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The Purpose of Energy Codes

- Part of the family of Building Codes, developed by the International Code Council and many stakeholders
- Standardize the energy components of building construction
- Provide guidance on correct installation techniques
- Support multiple ways to achieve compliance, but the paths need to work as a system

Benefits of Energy Code Compliance

- Reduce energy use in buildings
- Save consumers money on energy in buildings
- Improve comfort in buildings
- Improve indoor air quality in buildings
- Reduce greenhouse gas emissions from buildings

American Recovery and Reinvestment Act

ARRA State Energy Program funding tied to the assurance states made to achieve 90% compliance of 2009 International Energy Conservation Code (IECC) and ASHRAE 90.1 - 2007 Standards by 2017



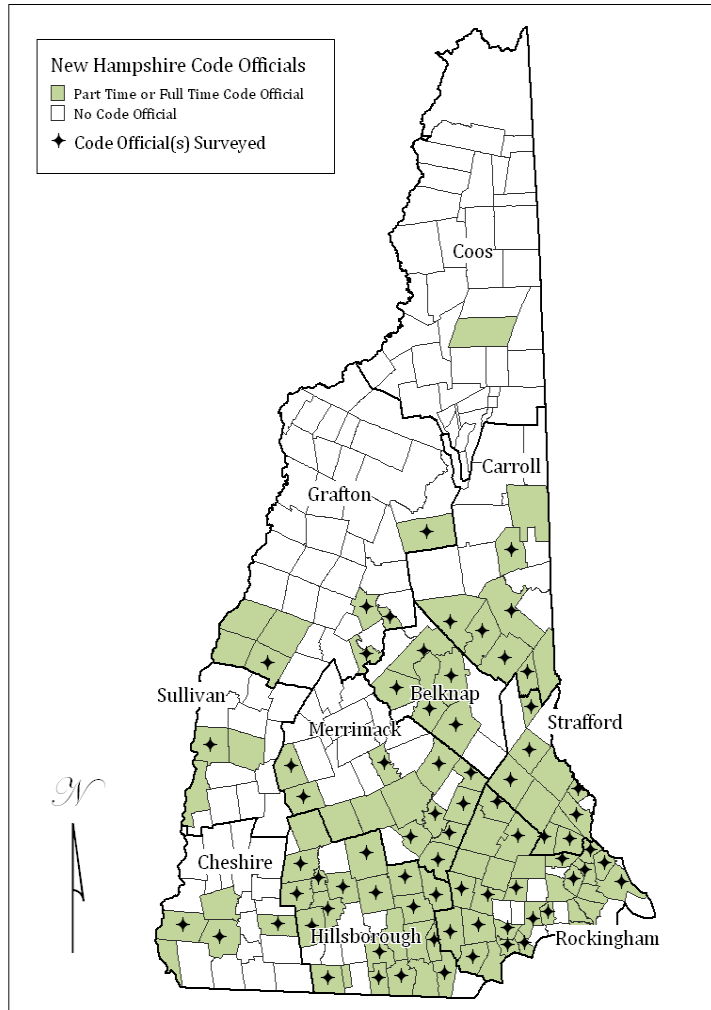
Overview of NH's Program

- Overall goal: create a Roadmap to 90% Compliance with the IECC 2009 by 2017
- \$600K of ARRA-State Energy Program funds contracted to GDS Associates, Inc.
- Deep analysis, addressing challenges, market actors, and possible solutions
- Roadmap will be issued in April 2012

Deliverables of NH's program

- 32 day-long Workshops, 1,220 trained
- Code Officials surveyed on perceptions of compliance
- Field Guides: 2009 IECC, 2012 IECC, EnergyStar 3.0
- Website: www.nhenergycode.com
- Consumer awareness campaign, including PSA
- Stakeholder Advisory Panel convened quarterly; will continue after ARRA

NH's Code Officials



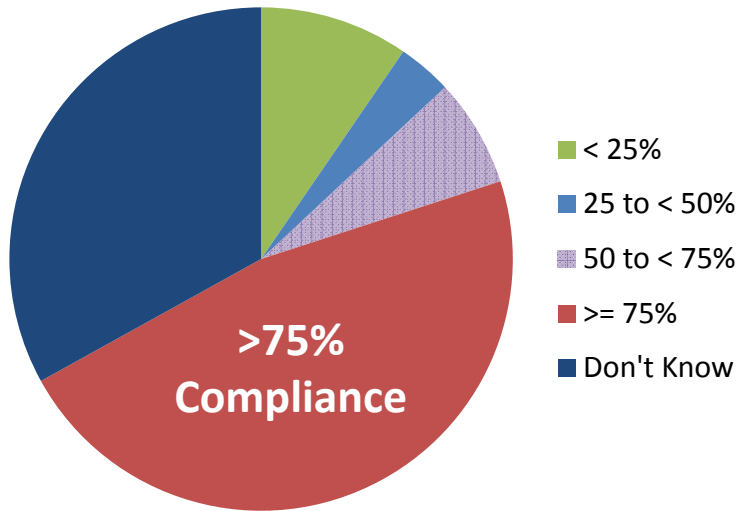
Cities and towns with full-time or part-time code officials and the towns with code officials who completed the survey instrument

NH Population: 1.3M

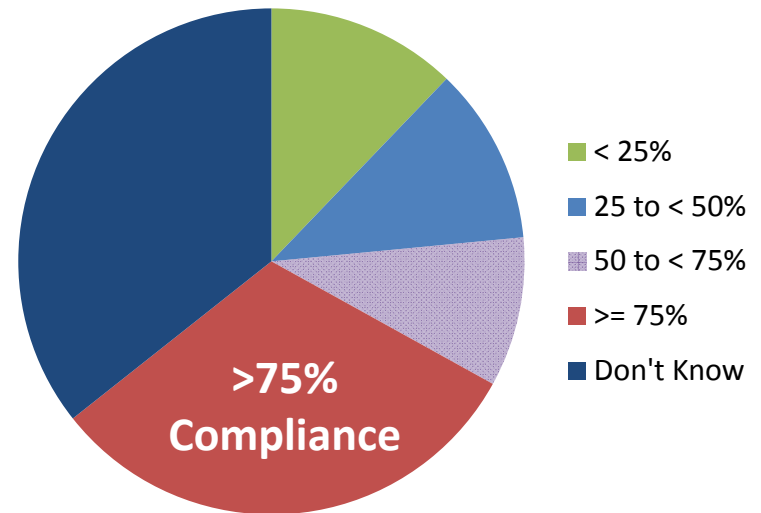
State Motto: Live Free or Die

Current NH Residential Energy Code Compliance Rate *Perceptions*

Estimated Energy Code Compliance,
Residential New Construction



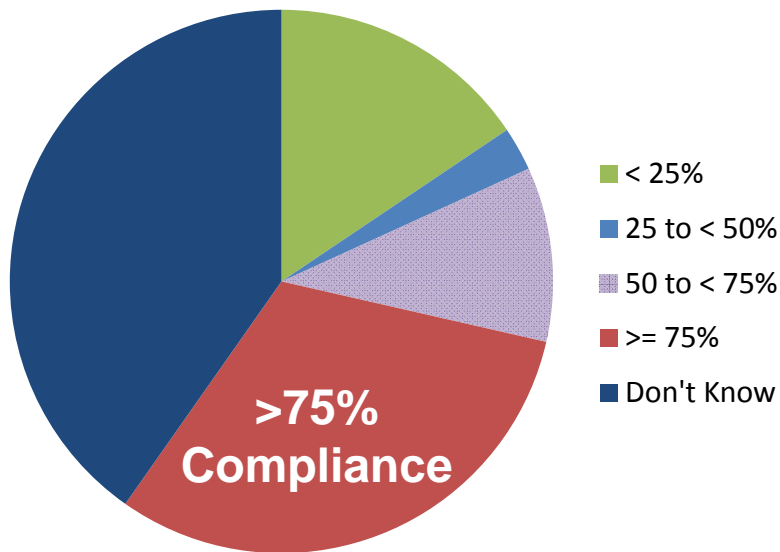
Estimated Energy Code Compliance,
Residential Renovations



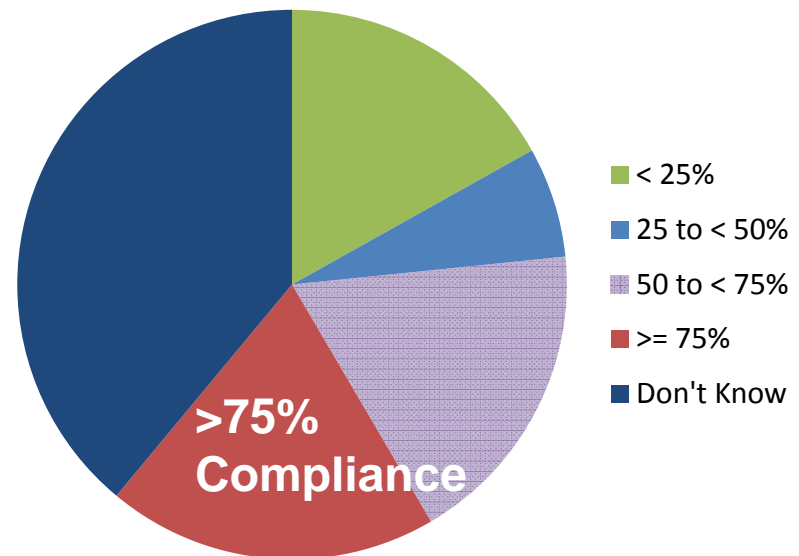
2010, survey of 111 NH code officials by GDS Associates, Inc.

Current NH Commercial Energy Code Compliance Rate *Perceptions*

Estimated Energy Code Compliance,
New Commercial Construction



Estimated Energy Code Compliance,
Commercial Renovation Projects



2010, survey of 111 NH code officials by GDS Associates, Inc.

Paradigm Shifts

- Significant compliance (90%) with codes means we need to do more than require them
- Outreach beyond “the choir” to create demand
- Consumers must demand stronger codes from building-professionals and policy makers
- Energy code benefits must be valued by real estate professionals, appraisers, financial institutions, insurers, and media

Business as Usual Needs to Change

- More training is good, but it only reaches the already active subset and not the non compliant
- More tools are important, but they don't reach areas with low compliance
- A mandate requiring compliance doesn't necessarily improve compliance
- We need to break the cycle

Break the Cycle

- Consumers need to know about energy codes
- Consumers need to demand compliance of builders, code officials, architects, engineers, and policy makers
- Real estate is often a consumer's biggest investment
- Value of energy codes needs to be understood and transparent
- Code Compliance is more complex than the Code Official – Builder relationship

The Market Needs to Value Energy Codes

- Appraisers
- Real Estate Professionals
- Insurers
- Lenders
- Product Manufacturers
- Product Distributors
- Building Owners

Builders, architects, engineers, and others are more likely to comply with the code when it brings them value, too

Four National-Level Solutions

1. Appraisals need to value code-compliant buildings
 - “Comps” need to have a wider radius
 - Acknowledgement needs to be made when buildings do not meet energy code
2. Building Labeling – such as a Mulroney sticker on a new car or Energy Star label on a new appliance – to show expected building performance
3. Financing needs to acknowledge operational/energy costs as well as upfront costs
4. Public Awareness Campaign to tie consumer desire for energy efficient buildings with the larger market

Thank you

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