

Code Adoption and Implementation at the State Level

Model Progressive building
energy code policy

CAROLYN SARNO
January 24, 2012



NORTHEAST ENERGY EFFICIENCY PARTNERSHIPS

"Accelerating Energy Efficiency"

MISSION

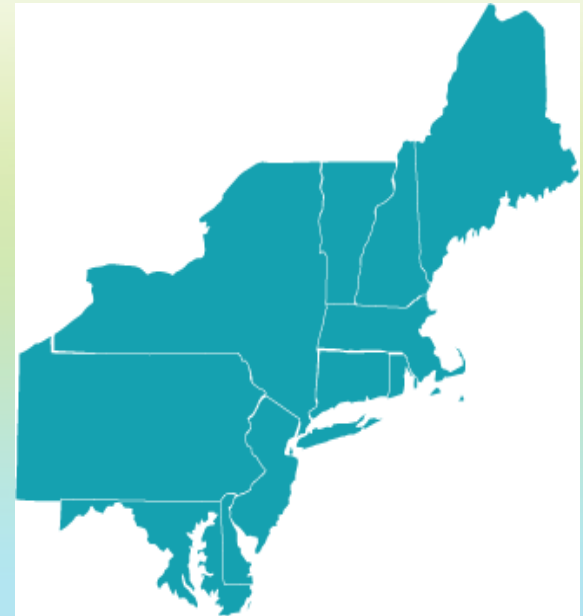
Accelerate the efficient use of energy in the Northeast and Mid-Atlantic Regions

APPROACH

Overcome barriers to efficiency through
Collaboration, Education & Advocacy

VISION

Transform the way we think about
and use energy in the world around us.



“I find building codes
Morally Offensive”

-*Representative* Lance Harvell
Maine

Model Progressive Building Energy Code Policy

Comprehensiveness

- Get to deeper energy, carbon emission savings
- Continue on the path to Net Zero Energy Buildings

Effectiveness

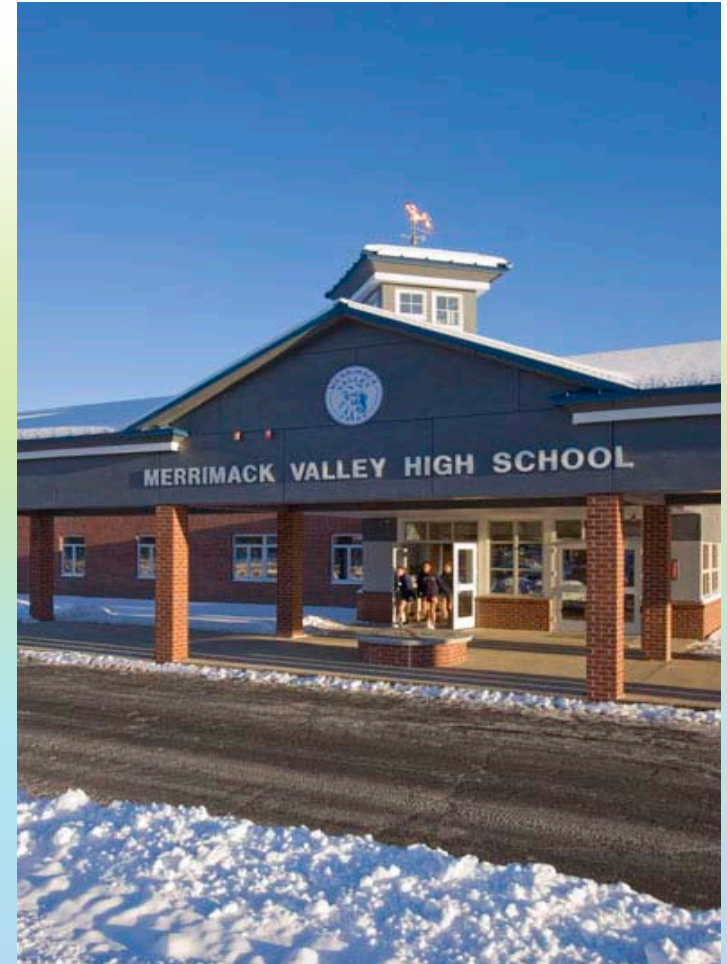
- Ensure high rate of compliance/enforcement

Connection

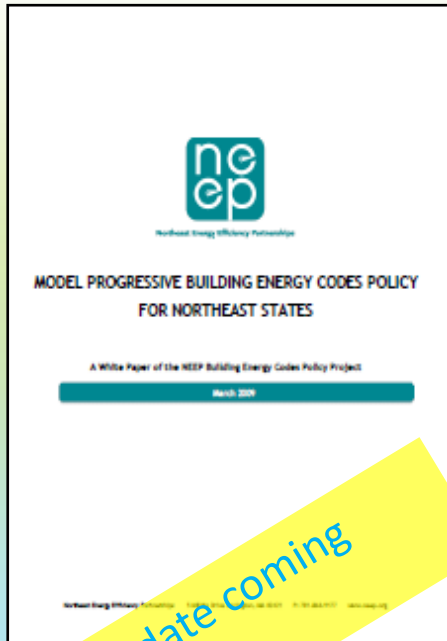
- Link building energy codes (“floor”) to beyond code/stretch codes

Clarity

- Need to distinguish between code/rating system/guidance



ELEMENTS OF THE MPBEC



- Code Adoption
 - Automatic adoptions
 - **Stretch code**
- Code Compliance
 - Training
 - Funding
 - Specialize energy inspectors
- Building Performance Measurement
 - Disclosure
- Integrating with other energy and environmental policies

MA STRETCH CODE

Appendix 115.AA (120.AA) 'Stretch' Energy Code

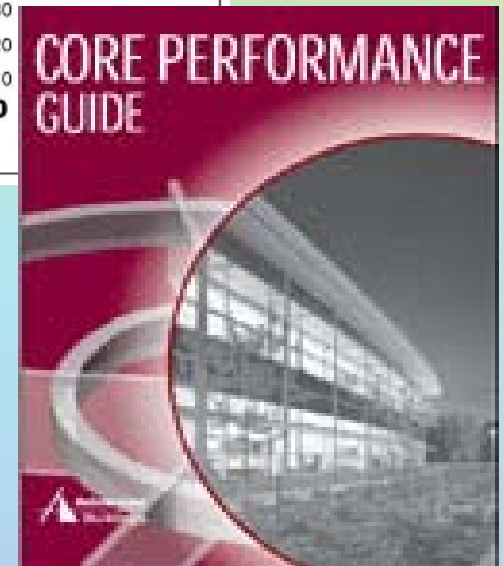
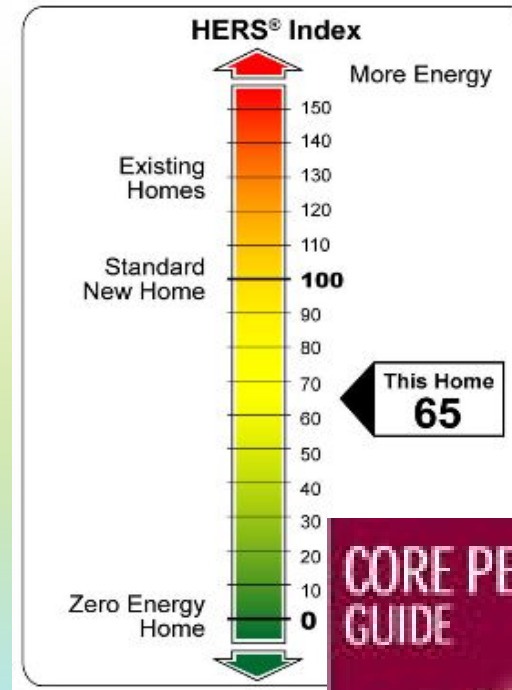
- Appendix to the 8th addition of the MA building code
- BBRS Adoption May 12, 2009
- One alternative energy code for communities wanting a more energy efficient option
- About 20% more stringent



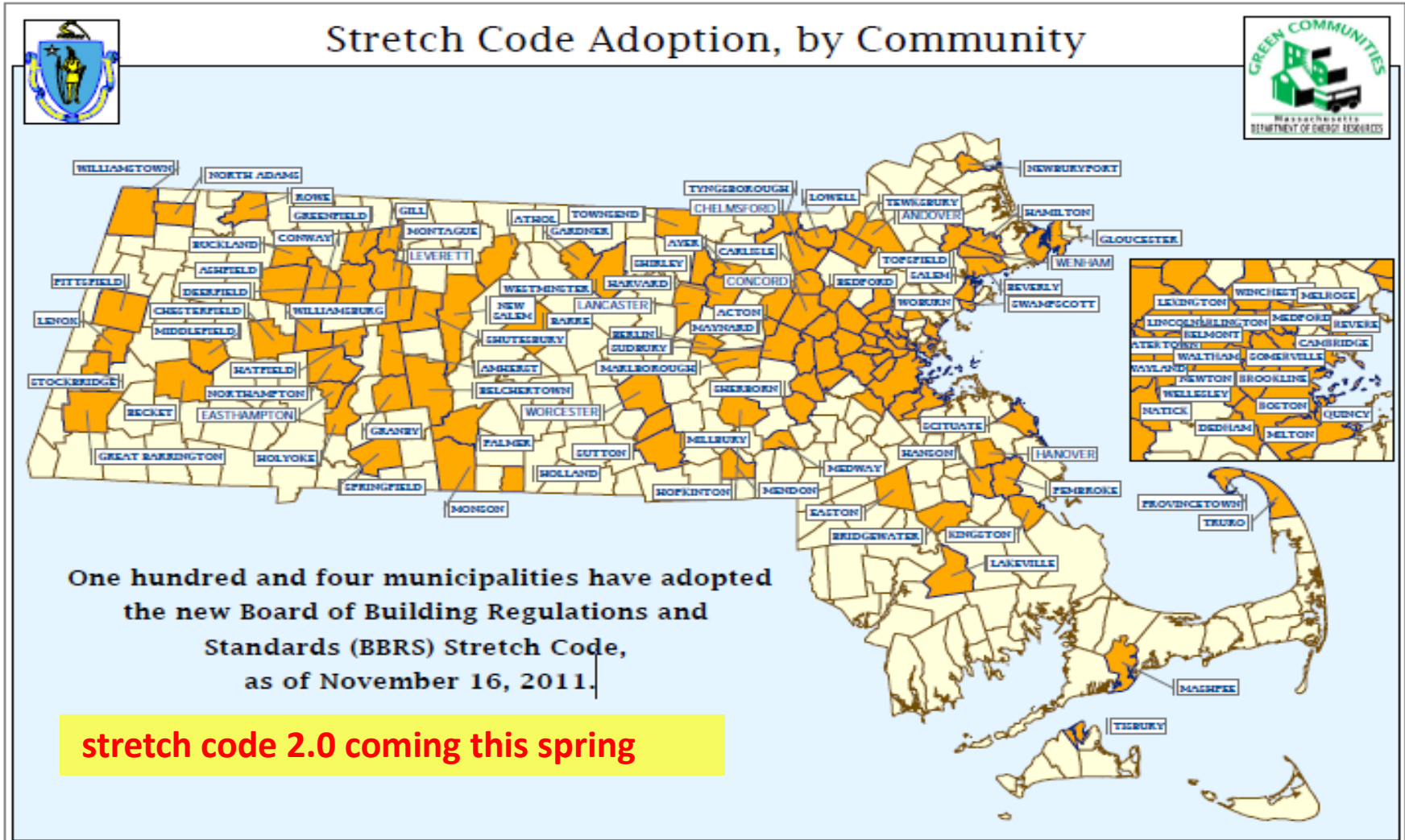
Fidelity Bank. Images from National Grid.

STRETCH CODE REQUIREMENTS OVERVIEW

- **Residential**
 - New construction
 - HERS rating
 - Renovations
 - Stretch code only applies to new portion of building
- **Commercial**
 - New construction and additions
 - Renovations are exempt



STRETCH CODE COMMUNITIES



AN 'ENERGY GUIDE' FOR BUILDINGS



The cover of the report features a light blue background. At the top left is the logo for 'dunsky energy consulting', which consists of a stylized 'd' with a horizontal bar. At the top right is the logo for 'neep' (Northeast Energy Efficiency Partnerships), which is a blue square containing the letters 'neep' in white. Below the logos, the title 'VALUING BUILDING ENERGY EFFICIENCY THROUGH DISCLOSURE AND UPGRADE POLICIES' is written in white on a dark blue horizontal band. Underneath this band, the subtitle 'A ROADMAP FOR THE NORTHEAST U.S.' is written in white. The main body of the cover is light blue and contains the following text: 'A DUNSKY ENERGY CONSULTING REPORT' in orange, followed by 'in collaboration with VERMONT ENERGY INVESTMENT CORPORATION' in small black text. Below that, the authors are listed: 'Philippe Dunsky, President, DEC', 'Jeff Lindberg, Consultant, DEC', 'Emad Piyal-Shaard, Senior Consultant, DEC', and 'Richard Faasy, Senior Project Manager, VEIC'. The next line reads 'For NORTHEAST ENERGY EFFICIENCY PARTNERSHIPS' in orange, followed by 'under the direction of Ed Schmidt, Director of Regional Initiatives' in small black text. At the bottom, the date 'NOVEMBER 2009' is printed in small black text.

dunsky energy consulting

neep
Northeast Energy Efficiency Partnerships

**VALUING BUILDING ENERGY EFFICIENCY
THROUGH DISCLOSURE AND UPGRADE POLICIES
A ROADMAP FOR THE NORTHEAST U.S.**

A DUNSKY ENERGY CONSULTING REPORT
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Philippe Dunsky, *President, DEC*
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For **NORTHEAST ENERGY EFFICIENCY PARTNERSHIPS**
under the direction of Ed Schmidt, *Director of Regional Initiatives*

NOVEMBER 2009

“The reason the arena collapsed was due to the building code”

EDUCATION AND TRAINING FUNDING

Code Training & Education Fund

- **CGS 29-263b**
 - Fees
 - *Collection & Submittal*
- **CGS 29-251c**
 - Board of Control
 - *Expenditures Approvals*



Office of Education and Data Management

- Educational Programs for Certification & Licensure
- Continuing Educational Programs
- Annual Design & Trades Conference
- Design & Trades Outreach Seminars
- Fund raises over **\$1 million per year** for education programs and is currently set at \$0.26 per \$1,000 value of permit work



LEED AS CODE ?

A LESSON FROM CONNECTICUT

- 2007 adopted LEED Silver as commercial building energy code
- Held up code adoption
- Not written in normative language
- Doesn't align training resources
- Includes elements beyond code
 - IgCC

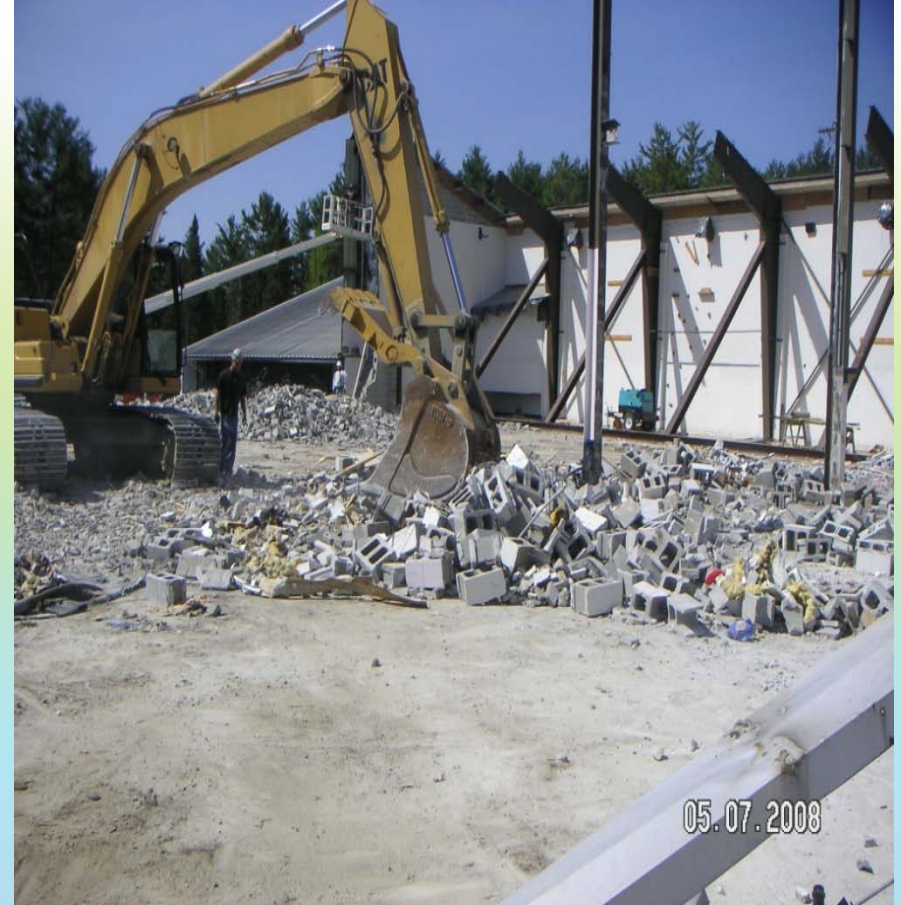


Coming 2012

- Update 2012
 - Existing buildings
 - ARRA go bye bye
 - Outcome based codes
 - Getting to zero ?



Protect our built environment



Resources

Stretch code two-page summary

http://www.mass.gov/Eeops/docs/dps/inf/stretch_code_overview_jun05_09.pdf

Northeast Energy Efficiency Partnership (NEEP)

www.neep.org

THANK YOU

CAROLYN SARNO
csarno@neep.org

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www.neep.org