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.
NEEP's vision

The work done today on High Performance Buildings will pave the way for the development of zero net energy buildings, buildings that consume no more energy than they produce, on a broader scale throughout the region.
ROADMAP TO ZERO NET ENERGY
PUBLIC BUILDINGS

• New Construction
• Developed with Leadership Group

• Key steps
  – Intermediate-term
    • 10-15 years
  – Critical
    • Now
WHAT IS A ZERO NET ENERGY BUILDING?

A zero net energy building produces as much energy as it consumes over the course of a year.
WHY PUBLIC BUILDINGS?

The public sector has a responsibility to lead.

The public sector has a longer investment horizon.
INTERMEDIATE-TERM STEPS

Information and Education

Building Energy Codes

Utility Regulation

Finance
CRITICAL NEXT STEPS

STEP 1

Develop a “Path to Highest Performance” Information Campaign

- Bullet-point briefings
- Presentations
- Fact sheets
- Educational modules
  - K-12 and post-secondary curricula
- A public web site
CRITICAL NEXT STEPS
STEP 2

Promote the Continued Development of Exemplary Public Buildings

Courtesy of Rhode Island Department of Education
CRITICAL NEXT STEPS

STEP 3

Prioritize Measurement and Reporting of Public Building Energy Performance

- Ensuring consistent measurement of building energy performance
  - Rate and disclose energy
    - Mandatory
    - Well designed
      - recommendations for possible improvements
  - Benchmarking
    - ENERGY STAR’s Portfolio Manager

Image courtesy of MA DOER
CRITICAL NEXT STEPS

STEP 4

Implement Stretch Building Energy Codes

• Get gradually stricter over time
• Be outcome-based
  – Not relying solely on prescriptive requirements
• Include provisions for continuous commissioning of building systems
• Cover all energy consumed in the building
  – including plug loads as well as major mechanical systems.
One hundred twenty-one (121) municipalities have adopted the new Board of Building Regulations and Standards (BBRS) Stretch Code, as of June 5, 2012.
CRITICAL NEXT STEPS

STEP 5

Create a Revolving Loan Fund or Similar Mechanism to Provide Capital for Energy Investments

- Budgets in our region grew 12.5 percent from 2008 to 2010
- End of an ARRA
- Initial capitalization an issue
  - fund should be self-sustaining once it is established
  - ESCO’s.....?
THE PATH TOWARD ZERO

Begins with......

• Significant reductions in as-designed building energy consumption
• Building operations that ensure as-designed performance.
THANK YOU

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