EEAC June meeting

Codes and Standards: Overview in MA
MA Landscape

• Energy Code: GCA requires IECC adoption
• Stretch code: Is arena for innovation & influence of future IECC

• Standards: Limited role for a small state
  ➢ Influence federal (& regional) standards
  ➢ Opportunity to identify new standards
National Model Codes

• Are changing rapidly
  ▪ 30% EE savings in 6 years
  ▪ 20% improvement target for 2013/15 cycle
  ▪ New ‘Green Codes’

• International Code Council (ICC) 3yr cycle
  ▪ Int. Energy Conservation Code (IECC)
  ▪ Int. Green Construction Code (IgCC)

• ASHRAE 3 yr cycle
  ▪ Standard 90.1 (commercial energy code)
  ▪ Standard 189 (commercial green code)
Code adoption in MA

• Independent Board of Bldg. Regulations & Standards (BBRS)
  ➢ Supports ICC codes (IECC for energy) with minimal MA amendments
  ➢ 6-12 month concurrency period
• Additional State review – Exec. Order 485
• Stretch code – additional local bylaw
  ➢ City council vote
  ➢ Town meeting vote
  ➢ Concurrency period
What’s happening with Standards

• NAECA – Residential appliance standards set at the federal level – New regional standards for A/C and gas furnaces next year

• Commercial standards – advanced through ASHRAE standard processes with DOE review

• Some potential opportunities?
  - TV standards (currently languishing)
  - NEEP / ASAP paper
Where PAs can make most impact

1. Code Compliance: Area of highest need
   - Training, Training, Training
   - Duct and air leakage testing
   - Tech. Asst. / Circuit riders
   - Documentation / Permit Data management

2. Adoption: State and Local
   - Cost effectiveness studies
   - Upstream programs & performance incentives

3. Code and Standard Development: The current process proven through three cycles
Future opportunities for PA support

- Duct and air sealing testing
- Upstream ‘sealed combustion’ program to support 2012 stretch code
  - Water heaters, furnaces, boilers
- Web-based permit application & tracking
  - Boston and Cambridge pilots?
- Circuit riders to help in plan review
  - Commercial bldg modeling
- Development of 2015 stretch code
- Regional appliance standards -?
Conclusion – more training needed

• 2010: DOER funded 40 trainings on IECC 2009 and stretch code.
  – ARRA funding
  – Commercial and residential
  – Designed for building code officials
  – Outreach to Builders, contractors, designers

• 2011: expanded training program
  – 40 Builder focused: residential best practices
     How to meet & exceed the stretch code
  – 15 HVAC training for sub-contractors/designers
  – 5 Deep Energy Retrofits – lessons learned