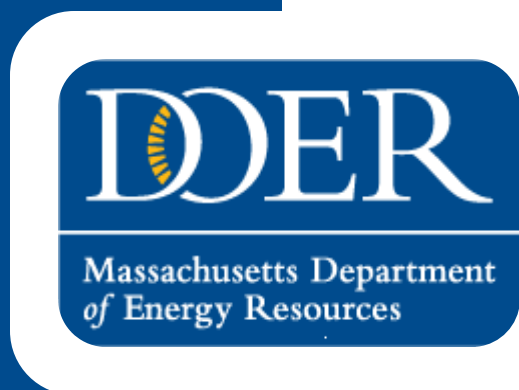


*Creating A Cleaner Energy Future For the Commonwealth*



**EEAC June meeting**

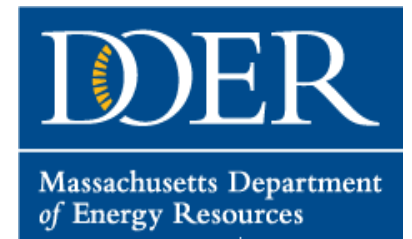
**Codes and Standards:  
Overview in MA**

## 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

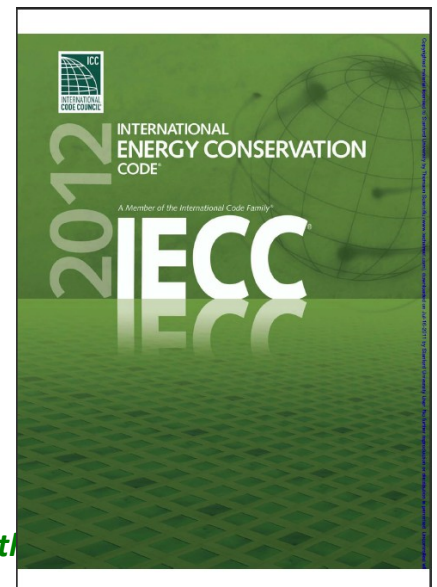
# National Model Codes

- 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

