

Creating A Greener Energy Future For the Commonwealth

The logo for the Massachusetts Department of Energy Resources (DOER). It features the letters "DOER" in a white serif font on a dark blue background. The letter "O" is stylized with a yellow sunburst pattern.

Massachusetts Department
of Energy Resources

Codes and Standards in Massachusetts

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Green Communities Act

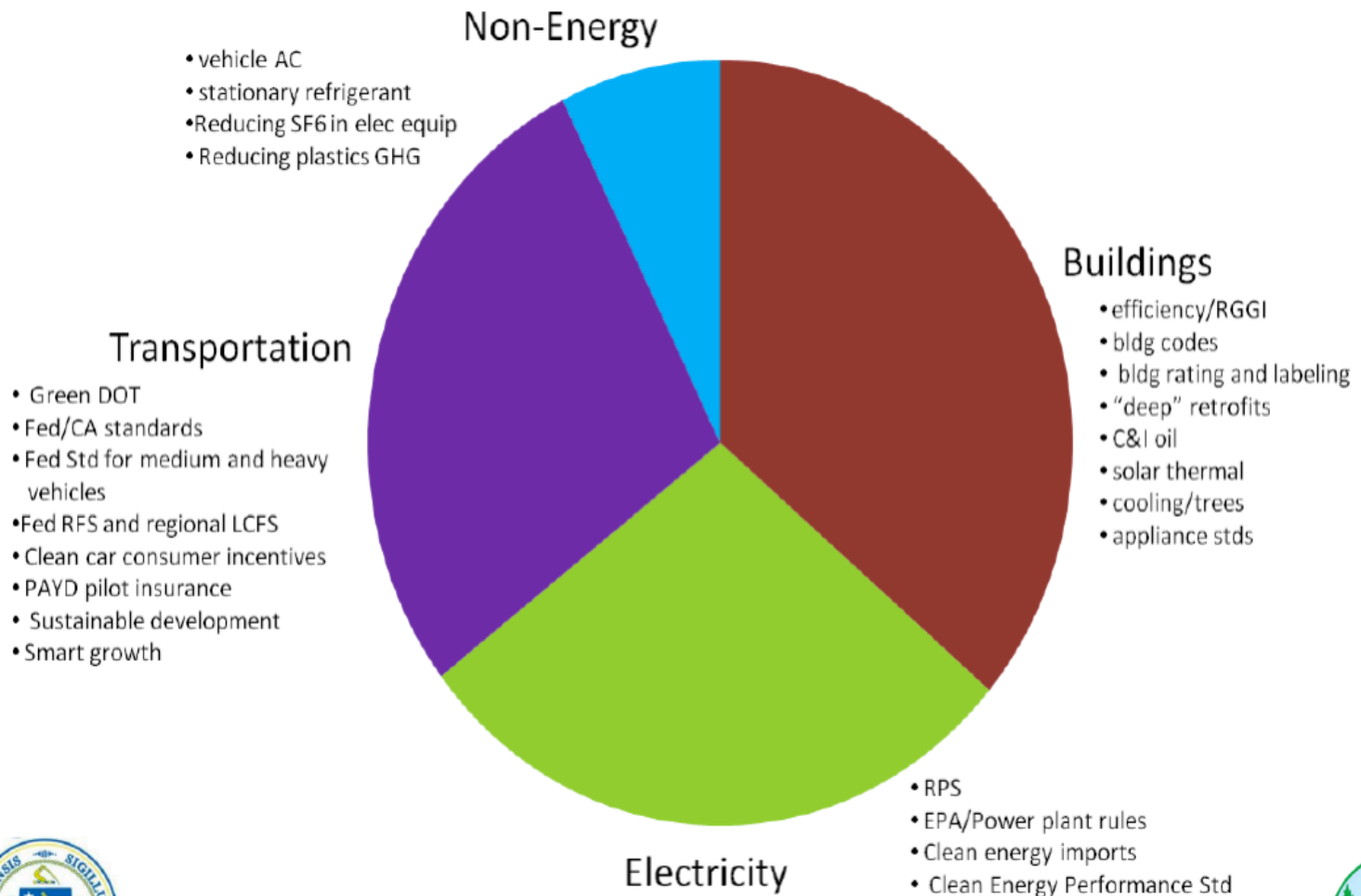
- Adopt the latest International Energy Conservation Code (IECC) within 1 year of any IECC revision
- Requirements for training of building officials
- Commissioning in buildings over 10,000 sq ft

2009 MA Board of Building Regulations and Standards (BBRS) upgraded the base code to be consistent with 2009

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Codes and the MA Clean Energy Agenda

Reduction Sources



MA Stretch Code

- MA is the first state to adopt an above code appendix to the base energy code, (IECC)
- Stretch Code is designed to result in cost effective construction that is 20% more energy efficient than base code
- Designated Green Communities must adopt the Stretch Code in accordance with the GCA
- Designated Green Communities automatically renew stretch code with revisions

MA Green Communities

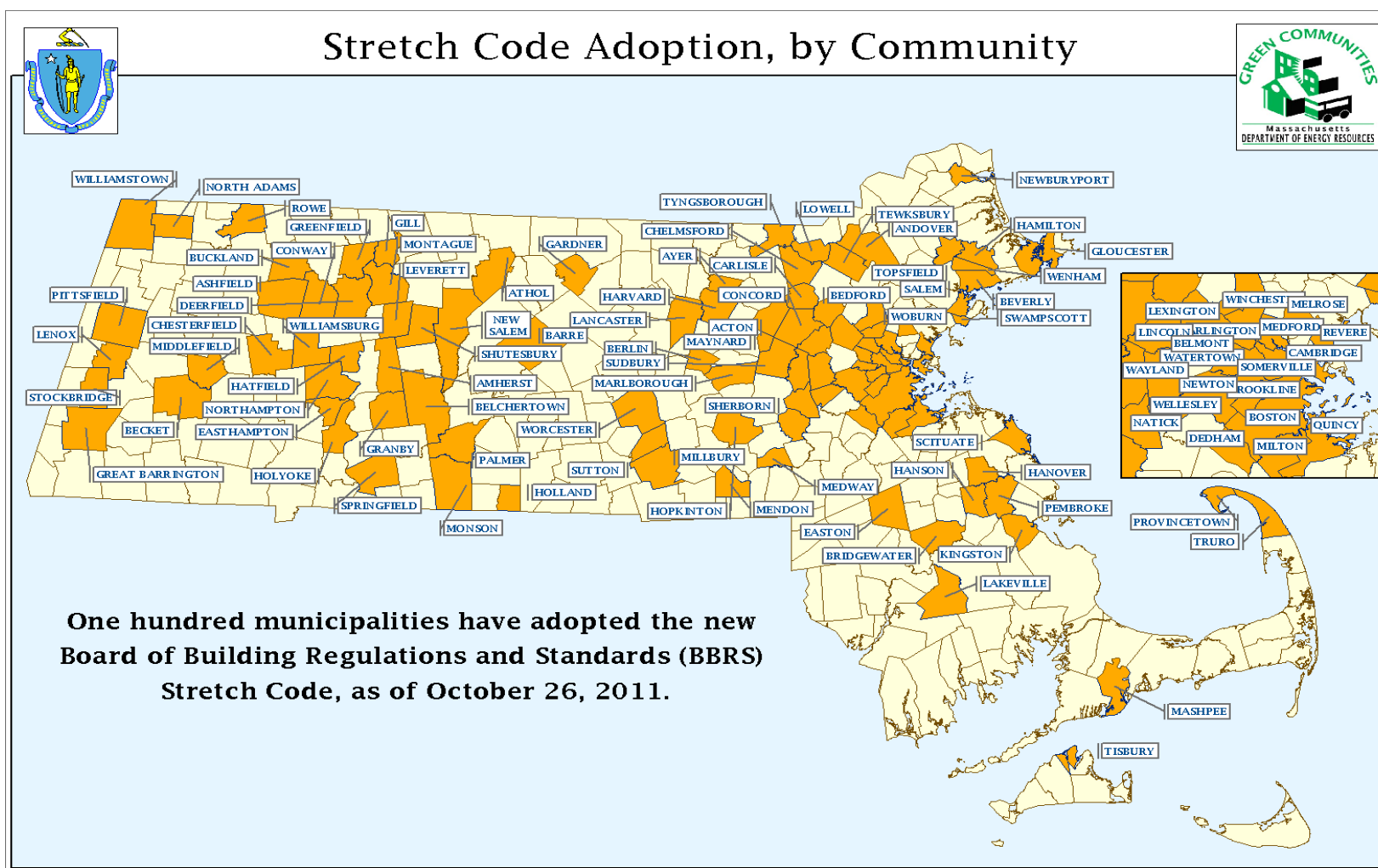
- Criterion #1: Provide as-of-right siting in designated locations for renewable/alternative energy generation, research & development, or manufacturing facilities
- Criterion #2: Adopt an expedited application and permit process for as-of-right energy facilities
- Criterion #3: **Establish benchmark for energy use and develop a plan to reduce baseline by 20 percent within 5 years**
- Criterion #4: Purchase only fuel-efficient vehicles
- Criterion #5: Set requirements to minimize

MA Stretch Code

- Residential emphasis on performance testing
- Performance modeling for commercial space
- Cost effective
- Most of the Stretch Code language will be in the 2012 base code
- Aligns with utility programs (Energy Star and New Construction) and LEED compatible

Stretch Code Communities

- Adopt most aggressive building energy codes



MA Building Energy Codes -

Residential

- IECC updates codes for 2012–2015
- Updated Stretch Code
- MA requires BBRS approval for adoption of IECC 2012 code language

Commercial

- IECC 2012
- ASHRAE 90.1 as alternative path moving toward 90.1 2010
- Updated Stretch Code

Energy Code Training

- BBRS required all building officials be trained on Base and Stretch code energy efficiency
- BBRS and DOER have sponsored more than 40 trainings
- DOER – DOE funded 25 trainings focus on meeting the Stretch Code, best practices
- Training opportunities for building officials, builders and designers

Code Compliance

- ARRA funding requirement of 90% code compliance by 2017 – no defined measurement
- DOER – DOE grant to measure code compliance in residential new construction
- Evaluation report on code compliance from 2006 residential new construction conducted by MA PAs
- Pending report on residential 2009 compliance with IECC

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Barriers to Compliance

- Lack of building documentation
- Compliance data
- Building Code Official capacity
- Training to all members of the building community

Next Steps....

The screenshot shows the ACEEE website with the following elements:

- Browser Tabs:** NEEC - Northeast Energy Ef..., Oakdev.com Mail - Inbox (2 x), ACEEE | American Council f..., SmartWool New Friend Soc..., Massachusetts | Online Cod...
- Address Bar:** aceee.org
- Navigation:** Contact | Site Map | Energy Efficiency Links | Glossary | Privacy
- Search:** search
- ACEEE Logo:** American Council for an Energy-Efficient Economy
- Right Sidebar:** Blog, Get E-mail Updates, RSS, Follow us on Twitter, Find us on Facebook
- Main Navigation:** Energy Efficiency Portals +, About ACEEE +, Newsroom +, Publications +, Conferences & Events +, Consumer Resources
- Energy Efficiency Portals:** National Energy Policy, State & Local Energy Policy, Residential Home & Appliances, Commercial Buildings & Equipment, Industrial Manufacturing & Agriculture, Transportation Vehicles & Systems, Behavior & Human Dimensions, Energy Efficiency Programs, Market Transformation, Energy Efficiency Topics
- Featured Article:** **Mass: #1**
Massachusetts tops California as the top-ranking state in energy efficiency, according to ACEEE's 2011 Scorecard.
- Events:** The 2011 Behavior, Energy and Climate Change Conference, Washington, DC, November 29, 2011 - December 2, 2011
- Publications:** Follow the Leaders: Improving Large Customer Self-Direct Programs (Research Report - 10/25/2011), The 2011 State Energy Efficiency Scorecard (Research Report - 10/20/2011)
- Policy:** State Progress on Energy Efficiency Creates New Business Opportunities (Blog Article - 10/21/2011), State Policy Database
- Consumer Resources:** Energy Saving Tip: Seal up the largest air leaks in your house—the ones that whistle on windy days, or feel drafty. These holes may add up to as much as an open window or door!
- Taskbar:** EE 101 6_8_2011 (4).pptx, EE 101 6_8_2011 (3).pptx, Show all downloads...
- System Tray:** 10:55 PM, 10/30/2011