



COMMONWEALTH OF MASSACHUSETTS

*Charles D. Baker, Governor
Matthew A. Beaton, Secretary
Judith Judson, Commissioner*

**The Green Communities Division
Partnering with Massachusetts
Cities and Towns**

*Seth Pickering
Southeast Regional Coordinator*

*Town of Yarmouth
Green Communities
Presentation*

*Yarmouth Energy Committee
June 6, 2017*

Green Communities Division

Serves as the hub for all Massachusetts cities and towns on energy matters



Creating a Clean, Affordable and Resilient Energy Future for the Commonwealth



GOING GREEN, WHAT DOES IT MEAN?

Cities, towns and other local governmental bodies can reduce their energy costs by:

1. Establishing an Energy Committee / Designating an Energy Officer
2. Establishing an energy baseline for municipal buildings, schools, streetlights and all vehicles
3. Performing Energy Audits on municipal buildings
4. Implementing energy efficiency measures (e.g. town investments, utility rebates and incentives, grant programs and performance contracting)
5. Changing behaviors: (e.g. energy conservation policies)
6. Exploring renewable energy opportunities



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Green Communities Division - Programs & Resources for Municipalities

- Green Communities Designation and Grant Program
- MassEnergyInsight (MEI) energy tracking and analysis tool
- Municipal Energy Efficiency Program
- Energy Management Services Technical Assistance
- Municipal Energy Technical Assistance Grants (META)
- Partnerships with MassCEC –
Solarize Mass and Community Energy Strategic Planning
- Website filled with tools & resources
www.mass.gov/energy/greencommunities
- Email updates via listserv – Sign up by sending an email to:
join-ene-greencommunities@listserv.state.ma.us



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GREEN COMMUNITIES DESIGNATION and GRANT PROGRAM



Massachusetts
DEPARTMENT OF ENERGY RESOURCES



Commonwealth of Massachusetts

Charles D. Baker Karyn E. Polito Matthew A. Beaton Judith F. Judson
Governor Lt. Governor EOEEA Secretary DOER Commissioner

DESIGNATED 2016

Provides grants to **qualifying** communities to fund energy efficiency initiatives, renewable energy, innovative projects

Qualification Criteria

1. Adopt as-of-right siting, in designated locations, for RE/AE generation, or RE/AE R&D, or RE/AE manufacturing
2. Adopt expedited (12 month) application/permitting process
3. Establish an energy use baseline with a plan to reduce baseline by 20% in 5 years
4. Purchase only fuel-efficient vehicles
5. Require new residential construction and new commercial and industrial real estate construction to minimize life-cycle energy costs (**Adopt Stretch Code - 780 CMR 115, Appendix AA**)



<http://www.mass.gov/eea/energy-utilities-clean-tech/green-communities/gc-grant-program/>

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Green Communities Designation and Grant Flowchart

Step 1

- Review Green Communities Designation Criteria Guidance
- Contact your Green Communities Regional Coordinator

Step 2

- Discuss Green Communities Designation with Local Government
- Receive local approval to apply for Green Communities status

Step 3

- Meet the 5 Green Communities Criteria and submit a Designation Application
- Receive Green Community Designation from DOER
- Apply for Green Community Grants



Criteria 1 – As-Of-Right Siting

For at least one of the following:

1. Renewable or Alternative Energy Generating Facilities or;
2. Renewable or Alternative Energy Research and Development (R&D) Facilities or;
3. Renewable or Alternative Energy Manufacturing Facilities in designated locations.



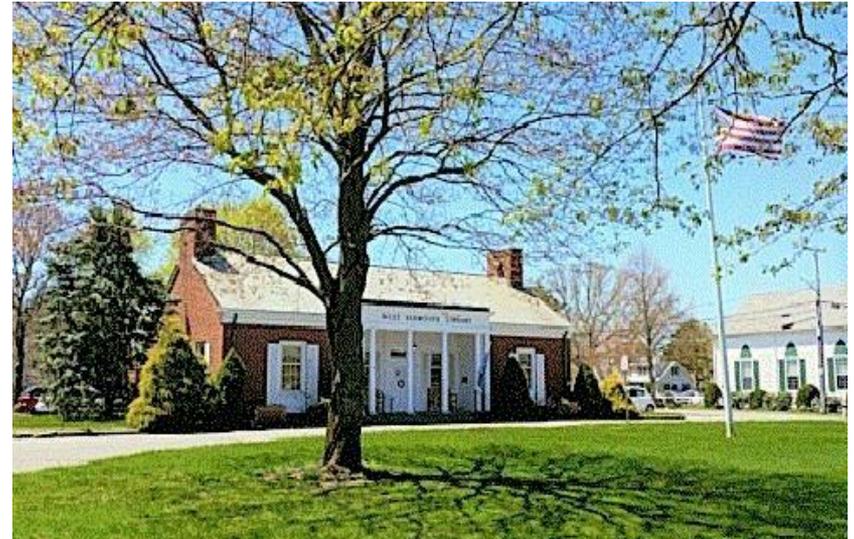
Criteria 2 – Expedited Permitting



12 months: date of initial application to date of final approval

1. Applies only to the proposed facilities subject to the as-of-right siting provision.
2. Can apply the MGL c 43D permitting process to these zoning districts

Criteria 3 – Energy Baseline & 20% Energy Reduction Plan



Calculate a Municipal Energy Use Baseline that includes:

- 1. Municipal Buildings & Schools**
- 2. All Vehicles**
- 3. Municipally Owned Street & Traffic Lights**



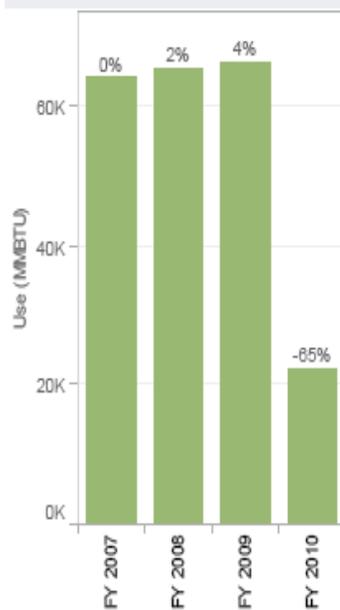
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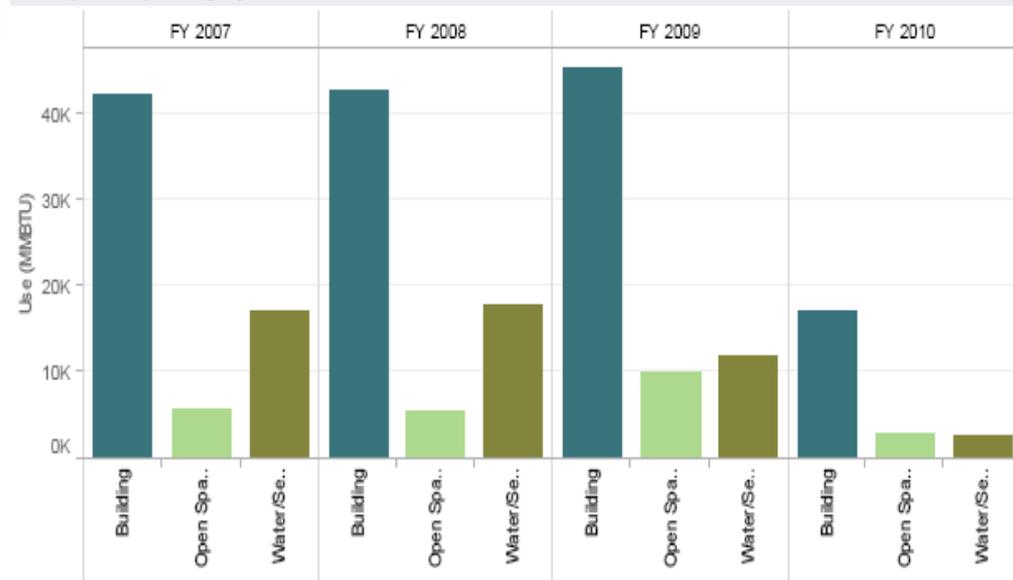
Criteria 3 – Energy Baseline & 20% Energy Reduction Plan

Create a comprehensive energy reduction plan designed to reduce energy use by 20 percent within 5 years of the baseline year.

Overall Use with % Difference from Baseline Year



Use by Facility Category



Values with a Facility Category of Null or blank indicate buildings that have not yet been assigned a category. Categories can be assigned from within the "Enter/Organize Data" section of www.massenergyinsight.net.



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Criteria 4 – Fuel Efficient Vehicles

1. Purchase only fuel-efficient vehicles for municipal use whenever such vehicles are commercially available and practicable.
2. Police cruisers are exempt until commercially available.
3. Heavy-duty vehicles > 8,500 pounds are exempt.



Criteria 5 – Minimize Life Cycle Costs

Require all new residential construction and all new commercial and industrial real estate construction to minimize, to the extent feasible, the life-cycle cost of the facility by utilizing energy efficiency, water conservation and other renewable or alternative energy technologies.

The DOER recommended way for cities and towns to meet this requirement is by adopting the BBRs Stretch Code (780 CMR 115.AA) an appendix to the MA State Building Code.

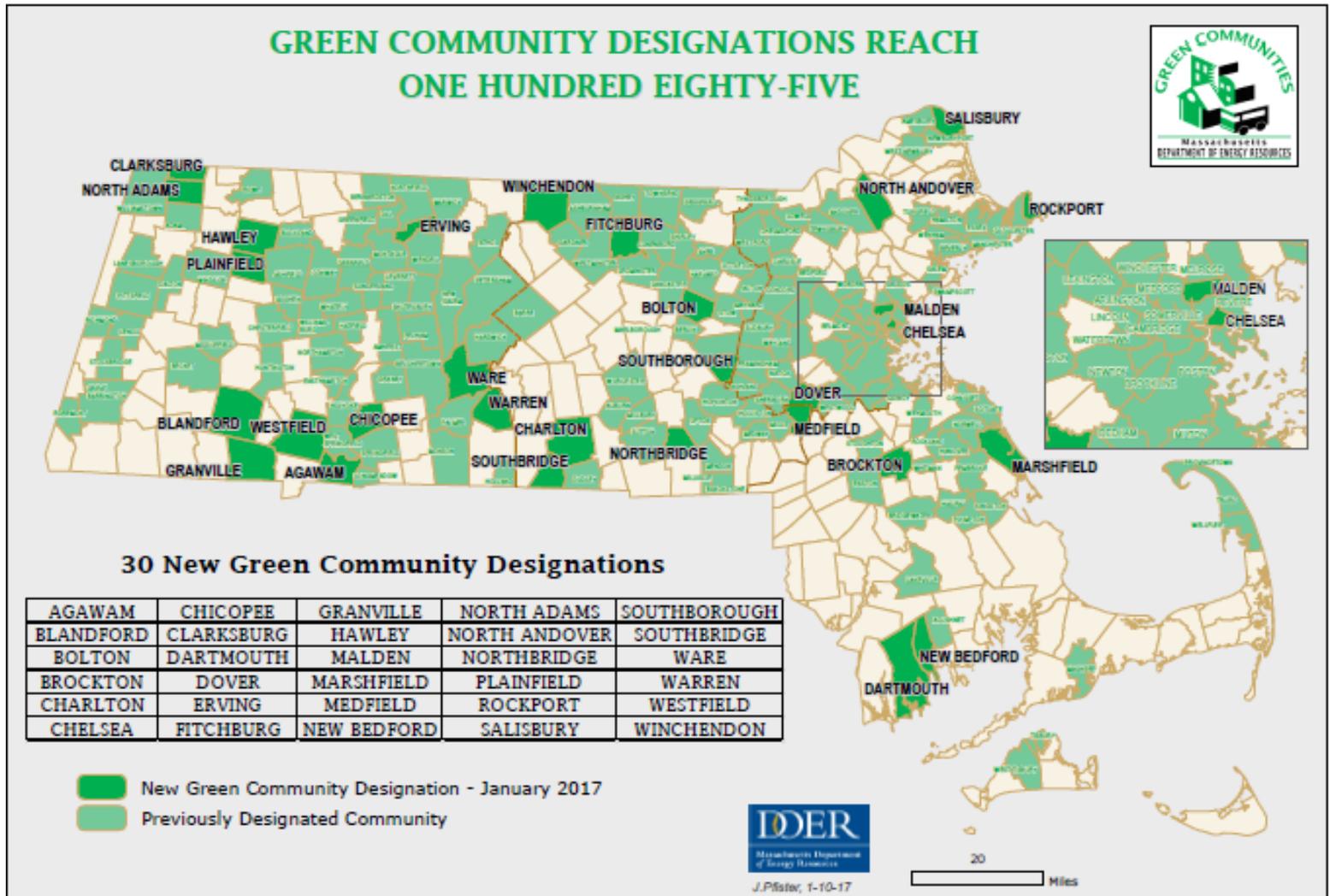
- In a town, the Stretch Code must be adopted as a warrant article or a general bylaw by its Town Meeting.
- In a city, the Stretch Code must be adopted by the City Council, preferably by general ordinance.



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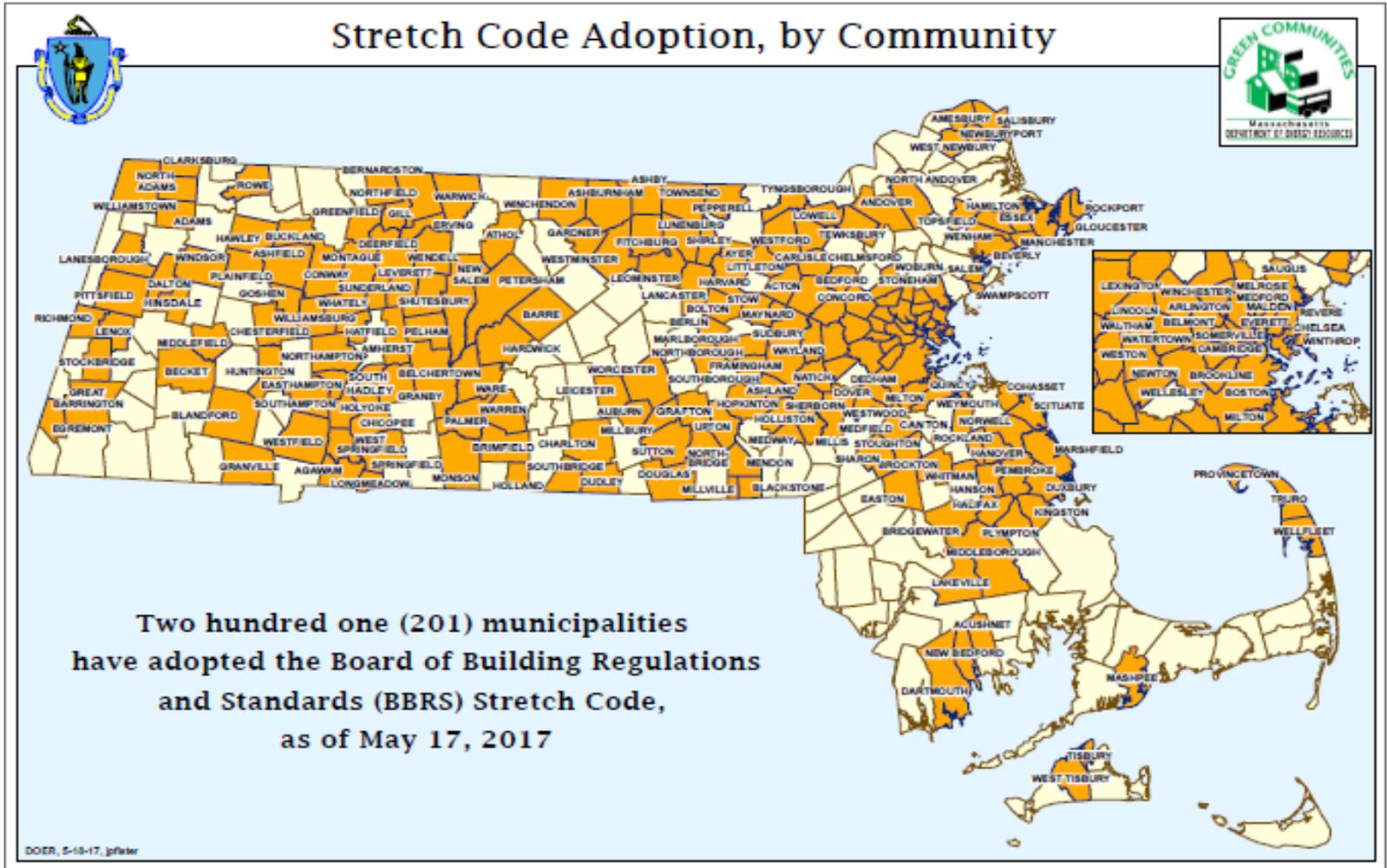
Meet the Green Communities!



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Stretch Code Communities



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Green Communities Designation and Grant Program

- Grant allocations based on a \$125K base plus a population/per capita income formula; maximum \$1M.
 - Range from \$130,725 in Hatfield to \$1M for Boston
- Over \$67M awarded in total for both designation and competitive grants programs
- Projects being funded include electric and thermal (natural gas and fuel oil) energy conservation measures, incremental costs for hybrid vehicles and grant administration costs.



Municipalities in the Green Communities Designation and Grant Program

- Acushnet 2013 = \$392,447, Designation and One Competitive Grant
- Kingston 2010 = \$699,036 Designation and Three Competitive Grants
- Lakeville 2012 = \$299,100, Designation and One Competitive Grant
- Mashpee 2010 = \$347,161, Designation and Two Competitive Grants
- Provincetown 2011 = \$178,462, Designation and One Competitive Grant
- Truro 2011 = \$222,195, Designation and One Competitive Grant
- Wellfleet 2014 = \$140,000, Designation Grant



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MUNICIPAL ENERGY EFFICIENCY

- **Municipal Energy Efficiency** - A major focus of the Green Communities Division is collaborating with municipalities by coordinating energy assessments with utilities, identifying energy efficiency resources and opportunities and evaluating the benefits of implementing energy conservation measures.
- **Cape Light Compact and National Grid Natural Gas - Audits/Rebates/Incentives**
- **Three Year Energy Efficiency Plans**
 1. Investor owned electric and gas utilities (IOU) are required to provide all available energy efficiency (EE) and demand reduction resources that cost less than new energy supply.
 2. Utilities will provide more robust rebates, incentives and programs to meet their goals.
 3. Plans – IOUs to invest \$2.2 billion in EE measures over 3 yrs.

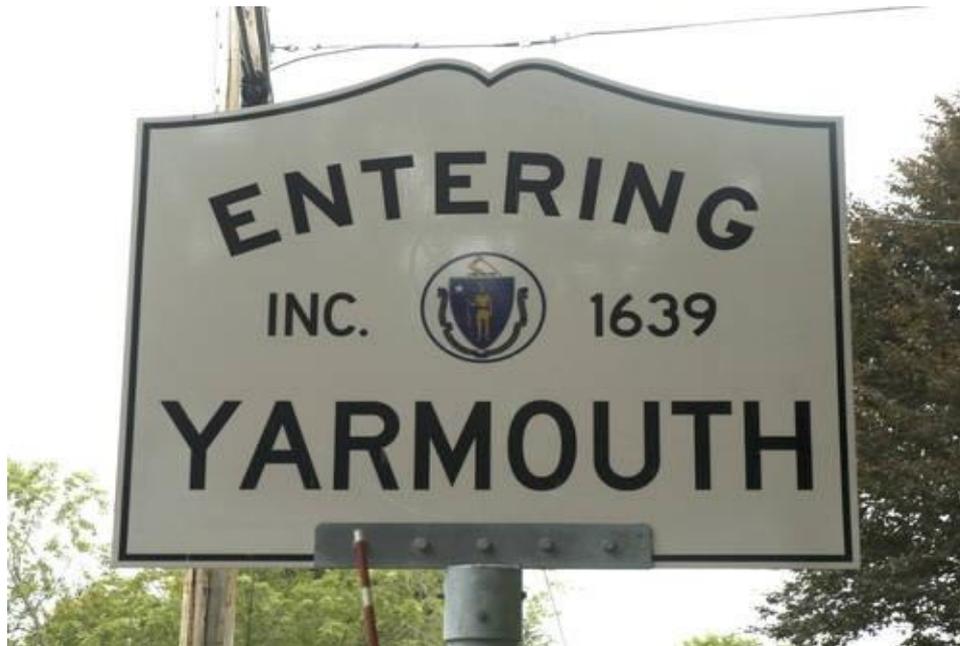


Green Communities Contacts

Seth Pickering – SE Regional Coordinator

seth.pickering@state.ma.us (508) 946-2838 or (617) 780-7156/Cell

- Website: <http://www.mass.gov/eea/energy-utilities-clean-tech/green-communities/>



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