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ENERGY AND ENVIRONMENTAL AFFAIRS  
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EXECUTIVE OFFICE OF ENERGY AND ENVIRONMENTAL AFFAIRS  
DEPARTMENT OF ENERGY RESOURCES  
GREEN COMMUNITIES DIVISION

ANNUAL REPORT TO THE MASSACHUSETTS GENERAL COURT, APRIL 2014

To: William Welch, Clerk of the State Senate  
Steven James, Clerk of the House of Representatives  
Stephen M. Brewer, Chair, Senate Ways and Means Committee  
Brian B. Dempsey, Chair, House Ways and Means Committee  
Benjamin B. Downing, Senate Chair, Joint Committee on Telecommunications, Utilities and Energy  
John D. Keenan, House Chair, Joint Committee on Telecommunications, Utilities and Energy  
Kenneth J. Donnelly, Senate Chair, Joint Committee on State Administration and Regulatory Oversight  
Peter V. Kocot, House Chair, Joint Committee on State Administration and Regulatory Oversight

In July, 2008, the Massachusetts General Court enacted and Governor Deval Patrick signed into law the Green Communities Act (the "Act"). The Act established a Green Communities Division (MGL ch.25A, Section 10 - the "Division"):

*.....to assist the commonwealth's municipalities and other local governmental bodies to: reduce energy consumption and costs, reduce pollution, facilitate the development of renewable and alternative energy resources, and create local jobs related to the building of renewable and alternative energy facilities and the installation of energy-efficient equipment."*

As part of this charge, the Division is required to "establish a green communities program to provide technical and financial assistance in the form of grants and loans to municipalities and other local governmental bodies that qualify as green communities." To qualify as a Green Community, a municipality or local governmental body must meet five specific criteria. The Division is responsible for establishing this program and adopting rules, regulations and guidelines, including establishing applicant criteria, funding priority, application forms and procedures and energy efficiency product requirements. The Division is also responsible for establishing a Green Communities program for communities served by municipal light plants that have adopted the renewable energy charge.

Following is a report of the Division's activities and accomplishments related to the Green Communities program requirements found in M.G.L c. 25A § 10(f) since the Division's last report of April 2013:

## **TIMELINE AND ACTIVITIES**

February – May 2013	Regional recognition events for seven Green Communities designated in December 2012 held throughout the Commonwealth
June 26, 2013	Second round of competitive grant awards announced for 20 Green Communities ( <a href="#">Press Link</a> )
Oct. 2013- March 2014	Applications for fall round of Owner's Agent Technical Assistance grants received and reviewed, and grants awarded to 22 municipalities and municipal entities
Oct. 1, 2013	Deadline for Request for Information (RFI) issued in September 2014 to gather feedback on various aspects of the Green Communities Designation and Grant Program, to be used to inform the drafting of regulations to govern the program going forward
Oct. 30, 2013	Application deadline for seventh round of Green Communities designation
Nov. 22, 2013	New Energy Manager Grant program (open to all cities and towns, regardless of Green Community designation) announced
Dec. 16, 2013	Deadline for submittal of Annual Reports for the 103 Green Communities designated for at least one year
Dec. 18, 2013	Thirteen new municipalities designated Green Communities, bringing total to 123 ( <a href="#">Press Link</a> )
Dec. 19, 2013	Division begins work on a comprehensive Progress Report to document the achievements, challenges, and road ahead for the Green Communities Designation and Grant Program
Jan. 21, 2014	Deadline for 13 newest Green Communities to submit grant applications
Jan. 31, 2014	Competitive grant application released for previously-designated Green Communities who have expended their Designation or previously awarded competitive grant funds
Feb. 14, 2014	Deadline to apply for Energy Manager Grants
Feb. – April, 2013	Regional recognition events for seven Green Communities designated in December 2012 held throughout the Commonwealth
Mar. 11, 2014	New Municipal Light Plant (MLP) energy efficiency grants program announced
Mar. 18, 2014	New Water/Wastewater Treatment Plant (W/WWTP) grants program announced
April 16-23, 2014	W/WWTP grant applications accepted

April 18, 2014	Deadline for competitive grant applications from previously-designated Green Communities
April 30, 2014	Deadline for MLP grant applications

## GREEN COMMUNITIES DESIGNATION AND GRANT PROGRAM ACCOMPLISHMENTS

Designation and Grant Program – Since the Division’s report of April 2013, with one additional designation round, the number of municipalities that have been designated Green Communities and received grant awards has reached 123. This is an increase of 13 municipalities since our last report. Green Communities grants are funded not through taxpayer revenue, but by carbon allowance auction proceeds under the Regional Greenhouse Gas Initiative (RGGI) as well as Alternative Compliance Payments (ACP) made under the Renewable Portfolio Standard. By statute, up to \$10 million annually can be dedicated to the Green Communities program.

The 123 Green Communities continue to be diverse geographically, socio-economically, and in size. Appendix A is a map of these 123 communities, as well as a list of their grant awards and approved projects. With the 123 designated Green Communities, 48 percent of the Commonwealth’s population lives in a Green Community.

As part of the designation process, the Division offers a Preliminary Consultation period during which municipalities can submit draft materials for review. Division staff provide feedback and comment on the materials and the applicant’s potential ability for meeting the Green Communities designation criteria. Five municipalities total opted to participate in Preliminary Consultations in the designation round this past year.

In addition to the grants received, all of the municipalities receive four metal road signs for display in their communities, and an official certificate signed by the Governor presented to them at the regional recognition events.

Since the beginning of the Designation and Grant program, 68 municipalities have completed projects funded by their Green Communities Designation grants. Thirty-two of these were designated in May 2010, 14 were designated in December 2010, 10 designated in July 2011, seven in December 2011, four in July 2012, and one in December 2012. In addition, 24 municipalities, have completed projects funded by Green Communities competitive grants. The table below provides a summary of the costs and benefits of the completed projects.

# of Complete Green Communities Grant Projects	Sum of Total Project Costs	Sum of Funds Awarded	Sum of Utility Incentives	Total Annual Cost Savings	Annual Energy Savings for # of MA homes equivalency	Annual GHG reductions for # of car equivalency
68 (Designation)	\$22,468,790	\$14,143,990	\$3,723,723	\$3,250,085	864	2,007
24 (Competitive)	\$4,274,922	\$3,014,470	\$521,712	\$481,377	161	313
<b>TOTAL</b>	<b>\$26,743,712</b>	<b>\$17,158,460</b>	<b>\$4,245,435</b>	<b>\$3,731,462</b>	<b>1,025</b>	<b>2,320</b>

The projects primarily consisted of energy efficiency and energy conservation measures and included: lighting retrofits in schools and public buildings, energy management systems and HVAC upgrades, solar PV installations, and energy education.

The Division also completed its third annual reporting process for the designated Green Communities to verify continued compliance with the five qualification criteria laid out in the Green Communities Act. During this period, the 103 communities designated through July 2012 provided annual reports for the period July 1, 2012 – June 30, 2013, with reports due by December 16, 2013. In addition to verifying continued compliance, the Green Communities Division uses the annual reporting process to learn more about any challenges municipalities are facing with the criteria and to determine the best way to continue to collect data for the annual reports.

For example, Criteria 3 requires municipalities to establish an energy use baseline and develop and implement an Energy Reduction Plan (ERP) for reducing that baseline by 20 percent within five years. Through the ERPs, the 123 Green Communities have committed to a total energy reduction equivalent to the annual energy consumption of more than 15,000 Massachusetts homes. The annual reporting process aids us in determining the progress the municipalities are making with their ERPs and provides an opportunity to review and discuss with them any needs for revising their plans. To date, the Green Communities are making great progress on their ERPs, and the Division expects to be able to verify and announce soon that some Green Communities have met their 20 percent reduction goal after five years of ERP implementation. Annual reporting has allowed some municipalities to realize that the baseline year they selected was not appropriate for achieving maximum energy savings and they have requested and received approval to revise their baseline years. Annual reporting has also identified some deficiencies in understanding how the fuel efficient vehicle purchase policy (Criteria 4) applies across town departments, and has resulted in action plans to ensure that only vehicles that meet the policy are purchased. Finally, the process has helped municipalities to improve their record-keeping regarding Stretch Code projects (Criteria 5). One hundred ten municipalities will be required to submit annual reports by November 30, 2014 for the July 1 2013 – June 30 2014 reporting period.

Since our last report, the Division awarded a second round of competitive grants for designated Green Communities that had expended all previous Green Communities grant funding and completed their annual reporting. A total of \$3.7 million was awarded to 20 communities, with awards ranging from \$19,057 to \$250,000. For the third competitive grant round, 45 applications were received on April 18, 2014 and are currently under review. The Division plans to offer the Competitive Grant Program on an annual basis each Spring, pending available funds.

Program Support — Additional strategies, programs and services of the Division include:

- *Preference Programs for designated Green Communities* – The Green Communities Division recognizes the effort that municipalities make to achieve designation and, as a result, has provided and will continue to provide special opportunities for Green Communities. To date, this has included: 1) providing preference for Green Communities in the application made available to municipalities for electric vehicle charging stations; 2) offering to Green Communities the opportunity to apply for [Solarize Mass](#), through which residential and small commercial PV systems are procured in bulk to lower installation costs. Beginning in 2013, non-Green Communities have also been invited to apply to participate in this program, which is a partnership with the Massachusetts Clean Energy Center (MassCEC), and 3) providing awards to a minimum number of Green Communities under the Community Energy Strategies Planning (CESP) pilot, a partnership between the Mass Clean Energy Center (MassCEC) and the Green Communities Division to provide technical assistance in implementing a stakeholder energy master planning process. (Three individual Green Communities and three regional planning authority groups comprising a combination of Green Communities and non-Green Communities were selected to participate in this ongoing program.) ([Press Link](#))
- *MassEnergyInsight* — The Green Communities Division continued to provide training on this free, web-based tool, available to all 351 cities and towns and other local governmental bodies to help them understand their energy use and reduce their carbon footprint through customized, easy-to-use

reports on electricity, natural gas and oil use. After providing classroom trainings, followed by webinar trainings, the online training videos on discreet topics were made available to reach a wider audience and to be available as a reference tool. We have continued to refine MassEnergyInsight, which now allows municipalities to benchmark the energy consumption of specific buildings against other municipal buildings of the same type across the Commonwealth. More than 220 municipalities are actively using the tool to track their energy consumption. ([www.massenergyinsight.net](http://www.massenergyinsight.net)).

- *GCD Website* — Since the Division’s report of April 2013, the Division has significantly revamped its website home page and related pages to make it easier to navigate and more useful to municipalities. The website ([www.mass.gov/energy/greencommunities](http://www.mass.gov/energy/greencommunities)) includes pages dedicated solely to the Green Communities Designation and Grant Program. Included on the site are application materials and a grant program toolkit containing guidance documents on each of the five designation criteria. The guidance materials are updated on a regular basis as we receive feedback from municipalities and learn from the designation process. We have also posted “best-practice” application materials submitted by various communities. In addition, the website contains information and tools for all municipalities on all of our programs. Finally, since the April 2103 report, the Division launched a new “Faces of Green Communities” web page devoted to providing a closer look at the demographics and other characteristics of the 123 Green Communities. So far, 48 Green Communities are represented on the site with photos, community summaries, and related links, and the Division continues to work on expanding the number of cities and towns included.
- *Listserv* — A subscriber listserv (over 1,500 subscribers to date) allows the Division to rapidly distribute program information to the public via “e-blasts” that are sent at least once monthly, often more frequently. The service provides us email response statistics so we can better understand our audience and the impact of our mailings.
- *Regional Coordinators* — Four regional coordinators, one located at each of the four MassDEP regional offices, continue to work with more than 70 municipalities each on meeting their energy goals and attaining Green Communities designation.
- *Webinars* — The Division utilizes webinars as a means to reach out to municipalities and citizens across the Commonwealth on a range of topics. The Division offers at least one webinar monthly at least ten months of the year, and webinar attendance has reached as high as nearly 300. All of our webinar materials, including the audio file and detailed Q&A documents, are posted on the DOER website for future reference.
- *Newsletters* — The Division publishes an electronic newsletter four times yearly (one each season) providing insight into Division programs and staff expertise, updates on Green Communities grant-funded projects, and other news related to Green Communities and the Division’s work.
- *Mass Municipal Energy Group (MMEGweb)* — In collaboration with the Massachusetts Municipal Association (MMA), a web service has been developed to facilitate knowledge sharing, collaboration, and networking among individuals involved in municipal energy and sustainability activities in Massachusetts. A Division grant funded the development of the online community which is administered by the MMA. MMEGweb provides a forum for peers in Massachusetts municipalities to share information about best approaches to various energy projects. MMEGweb builds on social networking elements that include individual customizable profile pages and the option to add direct links to social media pages. Since the April 2013 report, MMA revamped and relaunched the MMEGweb site to make it more user-friendly and to expand its reach. The site currently has more than 200 registered users.

- *Green Ribbon Schools* — The Division partnered for a second year with the Department of Elementary and Secondary Education (DESE) to lead an effort enabling Massachusetts K-12 schools to participate in the US Department of Education's (US ED) Green Ribbon Schools recognition program. Launched by US-ED in 2011, Green Ribbon Schools honors schools that are exemplary in reducing environmental impact and costs, improving the health and wellness of students and staff, and delivering effective environmental and sustainability education that incorporates Science, Technology, Engineering and Math (STEM), civic skills, and green career pathways. Massachusetts participated for the first time during the 2012-13 school year. DOER and DESE assembled a working group of state agencies and non-profit partners who conducted outreach to schools in advance of a fall application process, including presentation of a Green Ribbon Schools Conference at Mt. Wachusett Community College in September. Six schools applied for the recognition award in December 2012. Massachusetts nominated one to the federal agency at the end of January 2014. Forty-eight Green Ribbon Schools awardees from 30 states were announced by US-ED on April 22, 2013, included Massachusetts' nominee: Boston Latin School.
- *Owner's Agent Technical Assistance (OATA)* — Between October 2013 and March 2014, the Division awarded \$12,500 each (\$275,000 total) in OATA to 19 municipalities, two regional school districts and one vocational school. Owner's Agents are independent third parties who aid in the negotiations, development and management of energy projects, or perform studies to support the development of projects. OATA was originally a program of assistance provided to municipalities by the Division through the American Recovery and Reinvestment Act's Energy Efficiency and Conservation Block Grant (EECBG) program. Due to its great success under EECBG, the decision was made to offer it again, beginning in 2012. Pending available funds, the Division plans to continue to offer an annual spring round of OATA grants, with the next round to be announced later this spring. OATA is available to all municipalities, regional school districts and water/wastewater treatment plants, regardless of Green Community designation status.
- *Collaboration with Other States* — This past year, the Division continued to contribute to efforts in other states seeking to emulate the Massachusetts Green Communities Designation and Grant Program. Specifically, the Division consulted with the Maryland Energy Office, which launched the Smart Energy Communities program, the foundation of which was based on previous conversations with the Division, including a two-day site visit to Massachusetts in February 2013. In addition, Division Director Meg Lusardi participated in two days of grant application review for the New York State Energy Research and Development Authority's (NYSERDA) Cleaner, Greener Communities program. Since the April 2013 report, the Division also met with members of the Rhode Island Office of Energy Resources, which is working on development of a similar program.
- *Outreach* — The Director, Deputy Director and four Regional Coordinators have participated in numerous meetings with municipal leaders, energy committees and local civic groups, presented at regional and statewide workshops. Green Communities Division officials have also made themselves available to answer questions from municipal officials, members of the public, legislators and the press. It is estimated that the Green Communities Division interacts with more than 300 municipalities on an annual basis.

Following up on its 2012-2013 collaboration on with the University of Massachusetts Dartmouth Sustainability Initiative on a series of regional clean energy forums, the Division worked with UMass Amherst in 2013 and 2014 to produce a statewide municipal energy conference held on May 1, 2014. The forum will feature keynote speakers and panelists from EEA and DOER.

- *Energy Managers* — Since the April 2013 report, the Division has launched a competitive grant program to support municipal energy manager positions to help cities and towns reduce energy use, cut greenhouse gas emissions and lower energy costs. The program is open to all Massachusetts municipalities, as well as regional school districts, that do not already employ a local energy manager for more than 15 hours per week, and will provide support for a local energy manager position for two years. The Division made available a total of \$1.7 million over two years. In the first year, awardees are eligible to receive a grant of up to \$50,000 for a full-time energy manager or up to \$25,000 for a part-time position. In the second year, based on achievements in the first year, grantees may be awarded up to \$35,000 for a full-time position and \$17,500 for part-time. Energy managers hired through this grant program are also responsible for initiating and leading K-12 and community-wide energy education efforts within their cities and towns. On May 1, 2014, the Division announced the award of 28 grants representing funding requests for energy managers in 36 cities and towns (applicants were permitted to apply individually or in groups of up to three communities).
- *Water/Wastewater Treatment Plant Grants* — Since the April 2013 report, the Division launched a \$1.5 million grant program to cut energy costs and reduce emissions at drinking water and wastewater facilities, the second largest municipal energy consumers. Offered in partnership with the Department of Environmental Protection (MassDEP), and in collaboration with the US EPA and MassCEC, the program will provide gap funding (maximum award of \$200,000) to implement shovel-ready clean energy projects at these facilities, reducing municipal energy costs and cutting greenhouse gas emissions. The Division is currently reviewing 22 applications that were received by the deadline of April 23, 2014.
- *Model Solar Zoning* — The Division also recently released a model zoning bylaw for the regulation of solar energy systems to help Massachusetts cities and towns establish reasonable standards to facilitate development of small-, medium- and large-scale ground-mounted and roof-mounted solar energy systems, as well as companion guidance to assist local officials in interpreting the bylaw and determine how these systems should be regulated. The documents were developed under the U.S. Department of Energy SunShot Initiative Rooftop Solar Challenge grant, a program aimed at lowering the “soft costs” – such as permitting, zoning, and financing – of residential and small commercial rooftop solar photovoltaic (PV) systems.

Communities served by Municipal Light Plants — MGL c. 25A, Section 10(e) requires that the Division provide for a separate Green Communities program for cities and towns served by municipal light plants (MLP) that have adopted the renewable energy charge. Under the grant process established by the Green Communities Division, such MLP communities will use the same forms as non MLP communities, but the MLP communities must provide specific documentation that the MLP has adopted the renewable energy surcharge established in M.G.L c. 25 §20. All other aspects of the Green Communities Grant Program and designation/application process shall remain the same. Holyoke adopted the renewable energy charge in August 2009 and was designated a Green Community in 2010.

In May 2012, the Division issued a Guideline for municipalities served by multiple load serving entities, i.e. served by both an MLP and an investor-owned utility, stating that these municipalities are eligible to apply for designation without adopting the renewable energy charge. So far, the towns of Lakeville and Concord have met this criterion and received designation.

Most responses to a Request for Information (RFI) issued by the Division in 2012 indicated a preference for opening up the Green Communities Designation and Grant program to ALL municipalities, regardless of their electricity providers. Partly in response to this information, DOER in March 2014 launched an energy

efficiency grant program for MLPs. With \$1.5 million available, the program will fund grants ranging from \$100,000 to \$250,000 per MLP for energy efficiency programs that must include funding for at least one municipal efficiency project. The grant application deadline was April 30, 2014.

Progress Report — In December 2013, the Division retained the services of a consultant, ICF International, Inc., to gather information for and write a Progress Report documenting the achievements of the Green Communities Designation and Grant Program to date. Using information collected from the three previous Green Communities Annual Reports, as well as interviews with DOER staff and certain designated Green Communities, the consultant will create a report that discusses the benefits, potential opportunities, and challenges of the Designation and Grant Program. The report, expected to be complete during the summer of 2014, will include quantitative information and analysis as well as qualitative information.

Regulations — Since the April 2013 report, the Division has begun drafting regulations to govern the Designation and Grant Program. The regulations flow from responses received as a result of an RFI issued by the Division in September 2014. The regulations are being drafted in recognition that, as the Designation and Grant Program has expanded and municipalities have begun to reach certain milestones, new questions have arisen. Expected to be promulgated in 2014, the regulations will provide predictability for potential and current program participants.

#### **Funds Committed for Green Communities Designation and Grant Activities**

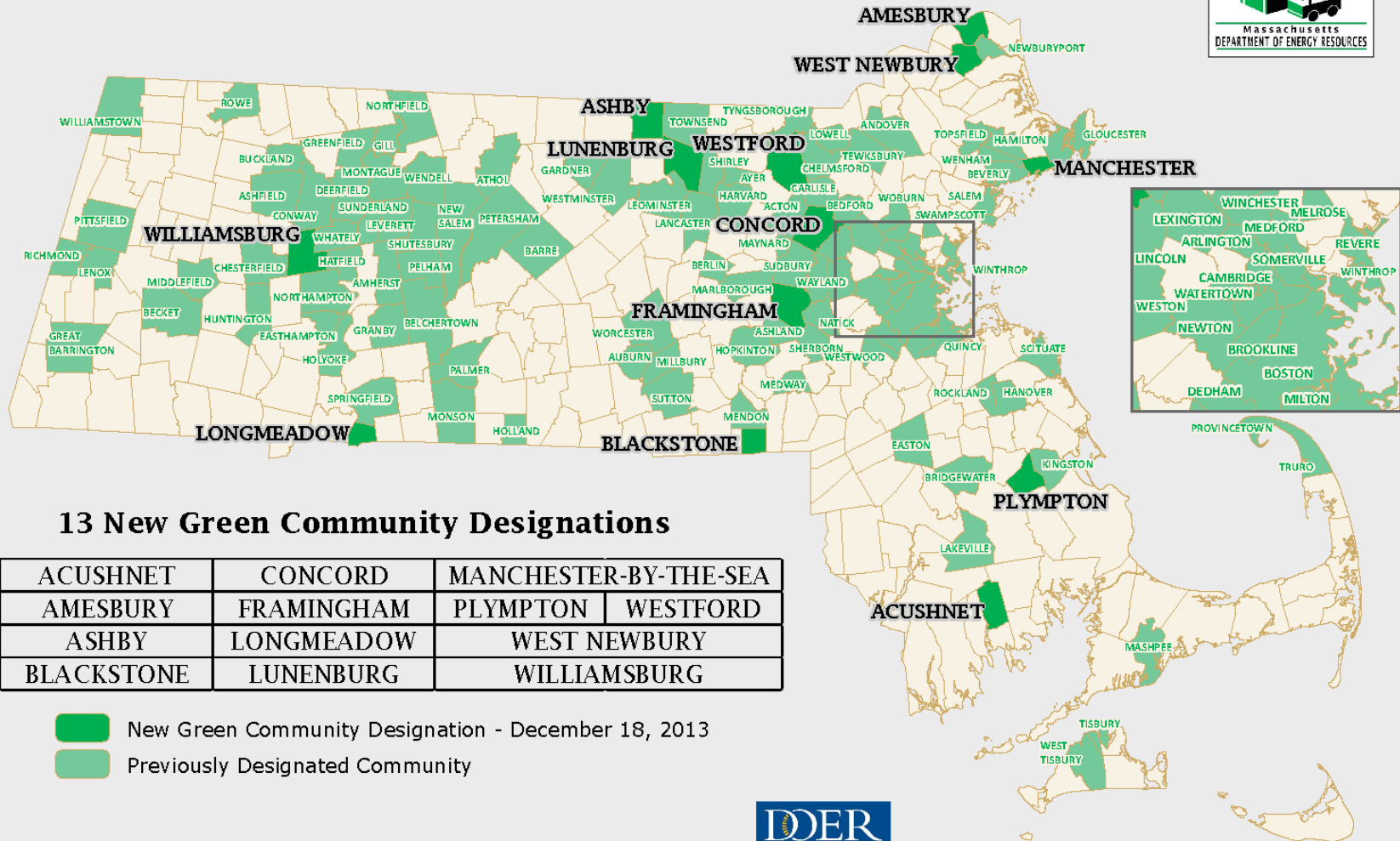
<u>Activity</u>	<u>Funds Committed*</u>	<u>Fiscal Year</u>
Green Communities Grants Round 1 — 35	\$8,100,000	2010
Planning Assistance — Round II (Oct 2010–June 2011)	\$424,500	2011
Green Communities Grants Round II — 18	\$3,600,000	2011
Green Communities Grants Round II — 21	\$3,700,000	2011
Green Communities Grants Round IV — 12	\$2,000,000	2012
Green Communities Competitive Grants — 19	\$2,750,000	2012
Green Communities Grants Round V — 17	\$2,750,000	2012
Green Communities Grants Round VI — 7	\$1,050,000	2013
Green Communities Competitive Grants Round II — 30	\$3,700,000	2013
Green Communities Designation Grants Round VII — 13	\$2,094,375	2014
Green Communities Competitive Grants Round III — TBD	\$7,000,000	2014

\* The established payment schedule requires payment to awarded Green Communities and Planning Assistance after submission of invoices for completed work. Therefore, committed funds have not all been expended at this point.

## APPENDIX A

### MAP OF DESIGNATED GREEN COMMUNITIES WITH LIST OF GRANT AMOUNTS AND FUNDED PROJECTS

## GREEN COMMUNITY DESIGNATIONS REACH ONE HUNDRED TWENTY-THREE



25

Miles



J. Pfister, 1-6-14

MA Green Communities	Designation Date	Designation Grant Award	Grant Project Summary	100% Done	Census 2010 Population
		Competitive Grant Award by Round			
123		\$23,579,558		68	3,146,732
		\$2,432,686		24	
		\$3,715,756			
Acton	05/25/10	\$150,794	to fund energy conservation measures and lighting upgrades at the Memorial Library, an HVAC analysis of Town Hall and installation of a tankless hot water heater and vending misers; lighting retrofits with LED technology at the Public Safety Facility building and Davis Memorial; and an energy education outreach program in the Acton-Boxborough Regional School District.	X	21,924
		\$140,738	To fund the following energy efficiency measures in municipal school buildings: in the RJ Grey School, installation of demand control ventilation, resetting the unit ventilator controls, air sealing with caulking, and re-commissioning of boiler and rooftop unit; and air sealing with caulking at Conant, Douglas, Gates Elementary schools and the Administration building.	X	
Acushnet	12/18/13	\$154,225	to fund energy conservation measures in school and several municipal buildings.		10,303
Amesbury	12/18/13	\$173,775	<i>Applicant period for grant projects is currently open; projects to be determined.</i>		16,283
Amherst	07/24/12	\$302,000	to fund the conversion of the town's streetlights from high pressure sodium to LED technology.	X	37,819
Andover	05/25/10	\$180,329	to fund a municipal lighting retrofit project at six school buildings: the Doherty Middle School, High Plain Elementary School/Wood Hill Middle School, Sanborn Elementary School, South Elementary School, West Elementary School and at two municipal buildings: Public Safety Center and Town House.	X	33,201
		\$220,599	To fund the following energy efficiency measures in municipal buildings: retrocommissioning of the Public Safety Center, Memorial Hall Library, Town Offices, Andover High School, and Andover Town House; and installation of demand control ventilation in Memorial Hall Library, Andover High School, and Andover West Middle School.		
Arlington	05/25/10	\$200,188	for high-efficiency LED streetlights; and replacement of steam traps; and an upgrade for energy management system at the Hardy School.	X	42,844
		\$250,000	To fund the following energy efficiency measures in municipal buildings: Heating Ventilation and Air Conditioning upgrades in Arlington High School and installation of ten variable frequency drives and associated electrical connections and control equipment in the Bishop, Brackett, Ottoson, Peirce, Robins, and Hardy schools.	X	
Ashby	12/18/13	\$133,350	to fund energy audits in six municipal buildings and implementation of approved energy conservation measures identified from the audits.		3,074
Ashfield	12/20/11	\$141,025	to fund to fund an engineering study of wood-based heating for the largest municipal buildings; bike racks for high traffic public locations; LED holiday lighting; energy audits to identify appropriate energy conservation measures in Town Hall, the Fire Station, the Library, the Highway Garage and implementation of DOER-approved measures from those completed audits; and the following energy conservation measures: at the Town Garage, a lighting retrofit; at the Town Hall, a lighting retrofit, air sealing/insulation of the foundation, boiler replacement, heating zones update, and installation of a tankless water heater; at the Fire Station, a lighting retrofit, air sealing/insulation of the foundation, heater replacement, an energy efficient refrigerator, installation of a tankless water heater; at the Library, installation of a tankless water heater and duct sealing.		1,737
Ashland	07/24/12	\$184,325	to fund technical assistance by Owner's agent for energy savings performance contract and the following energy conservation measures: an LED pilot project for Main Street; and exterior lighting upgrades at the Middle, Warren, Mindless, and Pittaway schools and at the Fire and Police stations.	X	18,583
Athol	05/25/10	\$171,523	to fund energy efficiency improvements at the senior center and fire #2 station, energy modeling and a renewable energy district energy heating and cooling alternatives study for a shared system for town hall and library, a new propane furnace at the South Street Well Process building, streetlight replacements with energy efficient LED technology, a solar hot water system at the fire #2 station, and some grant administrative costs.	X	11,584
		\$232,349	to fund an energy management system for the DPW garage and Water Treatment Facility and a variable refrigerant flow HVAC system at the Public Library		
Auburn	07/24/12	\$185,550	to fund an energy study of the Police Station and the following energy conservation measures: an interior lighting retrofit, freezer/cooler controls, and installation of VFDs in the High School; Energy Management System recommissioning and interconnection between the school systems and new Town Hall/Merriam Building systems; building envelope improvements in Town Hall, Town Manager's Office, Library, and Fire Headquarters; and interior lighting retrofits in same buildings as well as Highway.		16,188
Ayer	07/19/11	\$151,175	to fund administrative support and the following energy conservation measures: at the Wastewater Treatment Plant, a retrofit of the existing oil burner with a new high efficiency gas furnace; at the Fire Station, HVAC upgrade with installation of building management system; at Town Hall, conversion of fan coil thermostats to direct digital control and occupancy sensors; installation of smart strips in municipal office buildings; and a street lamp replacement project.		7,427
Barre	12/20/11	\$143,575	multiple energy efficiency projects including lighting upgrades, building insulation and weatherization and mechanical upgrades at several buildings along with funding for a program administrator to manage energy projects.		5,398

MA Green Communities	Designation Date	Designation Grant Award	Grant Project Summary	100% Done	Census 2010 Population
		Competitive Grant Award by Round			
123		\$23,579,558		68	3,146,732
		\$2,432,686		24	
		\$3,715,756			
Becket	05/25/10	\$141,326	to fund a two-phased project for two municipal buildings: Town Hall and the Highway Garage -- first to fund energy audits to identify energy usage and potential energy efficiency measures; second to fund implementation of the following energy conservation measures: in Town Hall, installation of a high EER/SEER central air conditioning system and occupancy sensors in all rooms; and in the Highway Garage, building envelope improvements including insulation, repair of and sealing of overhead garage doors, and a programmable thermostat.		1,779
Bedford	07/19/11	\$148,150	to fund energy conservation measures at the Department of Public Works and multiple school buildings, including energy efficiency lighting and variable frequency drives on heating circulation pumps.	X	13,320
		\$200,000	to fund phase one of a streetlight upgrade to LED technology		
Belchertown	05/25/10	\$160,917	to fund the buy-down of an energy management services contract for municipal buildings; specifically implementation cost of a comprehensive direct digital controlled energy management system at Chestnut Hill Elementary School.	X	14,649
Berlin	07/24/12	\$140,350	to fund the following energy conservation measures: at the Memorial School, building envelope improvements and an HVAC energy management system; at Public Safety/Town Offices, installation of an AHU-1 economizer and upgrade of HVAC energy management system; and at Town Hall, replacement of refrigerator.	X	2,866
Beverly	12/20/11	\$208,285	to fund an energy management system and ventilation and air conditioning and equipment upgrades at multiple schools.	X	39,502
		\$205,219	to fund the following energy conservation measures: in North Beverly Elementary School, upgrades to the air conditioning and heating plant systems, and unit ventilator controls; and in Beverly Commons Park, an LED streetlight retrofit	X	
Blackstone	12/18/13	\$151,075	to fund an energy audit in the elementary school, implementation of lighting retrofits in two buildings, and implementation of approved energy conservation measures identified from the audits.		9,026
Boston	12/18/10	\$1,000,000	to fund the following energy conservation measures: auto igniters for natural gas streetlights, lighting controls at municipal ball fields, and an upgrade of the energy management system for Copley Library and four library branches.	X	617,594
		\$143,052	to fund administration costs and the installation of energy management systems in eight branch libraries; Brighton, Dudley, Mattapan, Grove Hall, Jamaica Plain, Parker Hill, and South End.		
Bridgewater	12/20/11	\$200,800	to fund energy audits at eight municipal buildings and the following energy conservation measures: at the Police Station, a lighting upgrade, energy management system front end upgrade, and vending machine misers; at the Library a lighting upgrade and condenser retrofit; and		26,563
Brookline	07/19/11	\$215,050	to fund administrative project management costs and technical services to evaluate the feasibility of a several solar PV projects; an LED Street Light Conversion Project; installation of new boilers at Coolidge Corner and Main libraries including design/engineering studies; and interior and/or exterior lighting upgrades at the Main Library, High School, Physical Education and Arts buildings, and Pierce School.		58,732
Buckland	07/19/11	\$134,150	to fund energy audits to identify energy conservation measures in the Town Hall and Police Station and funds toward implementation of measures identified by the audits.		1,902
Cambridge	05/25/10	\$283,770	to fund energy conservation measures in municipal facilities, including HVAC upgrades in three municipal facilities: Haggerty School, Area IV Youth Center, and Frisoli Youth Center; installation of lighting upgrades in four municipal facilities: Solomon Garage, High School field house, Morse Elementary School, and DPW Complex; and to create an energy revolving fund program for future energy conservation measures in municipal facilities.	X	105,162
		\$98,043	To fund efficiency upgrades to the Heating Ventilation and Air Conditioning system and the Energy Management system at the Peabody School and Gately Youth Center.	X	
		\$234,888	to fund an engineering design and the following energy conservation measures at the Citywide Senior Center, replacement and commissioning of three air handling units and installation of an energy management system.		
Carlisle	07/19/11	\$139,300	to fund the installation of a roof-mounted solar PV array at the public school, an education program on energy efficiency for residents, and the following energy conservation measures: at Town Hall, installation of an energy management system to provide heating and cooling controls, high efficiency LED replacement lighting for 4 parking lot lights, and installation of motion sensors for existing lighting; at Carlisle Public Schools, high efficiency LED replacement lighting for 11 parking lot lights; and installation of plug load efficiency products including vending misers and smart plug strips in municipal buildings	X	4,852
Chelmsford	05/25/10	\$187,224	to fund a 30 kilowatt (kW) roof-mounted solar photovoltaic (PV) system at the Parker Middle School.	X	33,802
Chesterfield	12/20/11	\$140,000	to fund a pilot Clean Energy Fund grant program for residents to implement energy efficiency measures identified by MassSave audits; administrative support for the grant funded projects; and the following energy conservation measures: at the Fire House, an energy efficient boiler, window replacements, and air sealing; at the Senior Center, installation of a new energy efficient furnace and boiler and replacement	X	1,222
Concord	12/18/13	\$147,400	to fund a residential energy program, and the implementation of energy conservation measures at Peabody School.		17,668
Conway	07/24/12	\$139,650	to fund energy conservation measures in municipal buildings		1,897

MA Green Communities	Designation Date	Designation Grant Award	Grant Project Summary	100% Done	Census 2010 Population
		Competitive Grant Award by Round			
123		\$23,579,558		68	3,146,732
		\$2,432,686		24	
		\$3,715,756			
Dedham	12/16/10	\$179,800	to fund replacement of streetlights with LED technology.	X	24,729
Deerfield	07/19/11	\$142,950	to fund energy conservation measures in multiple municipal buildings including energy efficient interior and exterior lighting, variable frequency drives, energy efficient windows, and efficient street lights and controls.		5,125
Easthampton	05/25/10	\$174,985	to fund replacement of streetlights with LED technology.	X	18,053
Easton	12/16/10	\$168,300	to fund the following energy conservation measures: replacement of roof-top air handling units in Fire/Police Station building, new energy efficient boiler in Town Hall, new energy efficient heaters in Water Division garage, high efficiency exterior light upgrades in Middle School parking lot, and high efficiency interior light upgrades in High School gym.	X	23,112
		\$250,000	to fund insulated garage door retrofit at the DPW/Fire facility and an LED streetlight project		
Framingham	12/18/13	\$301,900	Applicant period for grant projects is currently open; projects to be determined.		68,318
Gardner	12/16/10	\$206,100	to fund a ground-mounted solar PV assessment at specific sites and solar PV lease and the following energy conservation measures; installation of 2 propane fired hydronic condensing boilers for hot water and an evaluation of the heating system at the High School, installation of an energy efficient boiler, DHW tank, cellulose insulation air sealing and replacement windows at the Senior Center, and the purchase and installation of 2 natural gas-fired condensing boilers at City Hall.		20,228
Gill	07/24/12	\$139,900	to fund an Energy Saving Campaign for residents; the incremental cost of a hybrid public safety vehicle; installation of idle reduction units on six public safety vehicles; installation of bike racks at five facilities; energy audits at Town Hall, Slate Library, and Riverside Building and implementation of approved energy conservation measures identified from the audits.		1,500
Gloucester	12/16/10	\$198,200	to fund administrative support, technical services for LED streetlight project, idle right units for 2 vehicles, purchase of an IR camera, and the following energy conservation measures: at O'Maley Middle School, controls upgrades for air handler units; and at the High School, boiler room controls including VFDs for hot water pumps, and upgrades for automation control system; and at the Library, lighting upgrades.	X	28,789
Granby	07/19/11	\$144,125	to fund a solar hot water system for the police and fire complex, a roof mounted 10 kW solar PV system for the new library, consulting services for assessment of energy audits, and funds toward implementation of energy conservation measures identified by audits for the junior and senior high school and elementary school.		6,240
Great Barrington	07/24/12	\$142,700	to fund energy conservation measures in municipal buildings		7,104
Greenfield	05/25/10	\$202,066	to fund the buy-down of an energy management services contract for municipal buildings, specifically lighting and occupancy sensors for Greenfield Middle School; a community energy efficiency program; a feasibility study on municipal electric load aggregation, and a part time energy coordinator staffing position.	X	17,456
		\$40,000	To fund eight residents to receive up to \$5000 toward energy efficiency measures in conjunction with the municipality's Community Development Block Grant Rehab Program for low to moderate income residents.	X	
Hamilton	05/25/10	\$144,819	to buy down the cost of an energy savings performance contract for implementation of energy conservation measures at the Town Hall, Council on Aging, Recreation Department and Public Safety Building.	X	7,764
Hanover	05/25/10	\$148,598	to fund the incremental costs of a hybrid public safety command vehicle, to support an energy staff person, and for the following energy conservation measures: at Salmond Schools, replacement of steam traps; at Town Hall, a new high efficiency condensing boiler; and at Fire Station #4, new external doors.	X	13,879
		\$194,058	to fund grant administration costs and the following energy conservation measures: in Cedar Elementary School, walk-in freezer/cooler controls retrofit, building envelope improvements, exterior lighting retrofit, and a retrocommissioning project; in Center Elementary, walk-in freezer/cooler controls retrofit, building envelope improvements, and exterior lighting retrofit; in Sylvester Elementary, exterior lighting retrofit; in the Middle School, walk-in freezer/cooler controls retrofit, building envelope improvements, exterior lighting retrofit, and a retrocommissioning project; in the Fire Headquarters, Police Headquarters, and Salmond School/Administration building, exterior lighting retrofits; in the John Curtis Free Library and Fire Headquarters, building envelope improvements.	X	
Harvard	12/16/10	\$141,200	to fund fund the following energy conservation measures: demand control ventilation upgrades and building automation system upgrades at the Elementary School, energy efficient boiler replacements at the Fire and Police Stations, and a deep energy retrofit analysis for Town Hall.		6,520
Hatfield	12/16/10	\$130,725	to fund the following energy conservation measures: insulation and heating system upgrades at the Water Filtration Plant office, replacement of windows at Town Hall, installation of window quilts at Smith Academy, and purchase of an electric light duty truck for multiple department use.	X	3,279
Holland	07/19/11	\$143,250	to fund energy audits to identify potential energy conservation measures in the Elementary School and the Fire/Police Garage and the following energy conservation measures: in the Elementary School, a new energy management system and unit ventilator upgrades.		2,481

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		\$2,432,686		24	
		\$3,715,756			
Holyoke	05/25/10	\$321,221	for conversion of exterior parking lot lighting to LEDs at all twelve schools, for high-efficiency LED traffic and streetlights, and to purchase BigBelly Solar Compactors for public parks and high traffic areas.	X	39,880
		\$166,716	To fund Heating Ventilation and Air Conditioning system upgrades in the Exhibit Hall in the Children's Museum including replacing the boilers with high efficiency gas boilers, replacing the rooftop air conditioning units, installing direct digital controls and demand control.	X	
Hopkinton	05/25/10	\$137,502	for various energy efficiency measures in the school buildings, DPW Garage, Police Department, Fire Department and Senior Center.	X	14,925
		\$156,792	To fund the upgrade of the Energy Management Systems in Town Hall and the Elmwood School to modern, digital systems.	X	
Huntington	07/24/12	\$140,850	to fund energy audits and lighting retrofits at seven municipal buildings: Town Hall, Library, Department of Public Works garage, Stanton Hall, Main and Norwich Hill Fire Departments, and Water Department; and implementation of approved energy conservation measures identified from these audits.		2,180
Kingston	05/25/10	\$163,528	for energy efficiency measures at the Kingston Elementary School, Kingston Public Library and Smith's Lane Fire Station.	X	12,629
		\$199,426	To fund the following energy efficiency measures: installation of two a high efficiency condensing boilers in the elementary school and exterior LED pole-top and wall packs lighting at the public library.	X	
Lakeville	07/24/12	\$158,275	to fund the installation of idle reduction devices on police vehicles, consulting services, administrative support and the following energy conservation measures: at Assawompset Elementary School, installation of an Energy Management System to control hot water boilers and equipment, replacement of circulating pumps and controls, and air handling controls in the gym, and lighting upgrade; replacement of all garage doors at the Fire Station; and lighting upgrades at the Police Station, Town Office building / Fire Department, the Book Café.	X	10,602
Lancaster	05/25/10	\$141,114	to fund the purchase of an electric vehicle and energy audits for Town Hall, and the following energy conservation measures: lighting upgrades in 8 municipal buildings; energy controller systems for town well pumps, building envelope improvements in several buildings; and LED streetlight conversions.		8,055
Lenox	05/25/10	\$134,766	to fund administrative support, technical support for a solar PPA, and a solar PV mini-grants program for solar and hot water systems on commercial and residential properties and the following energy conservation measures: at the Morris School, HVAC system upgrade; and at Town Hall, phase 1 of an HVAC pumps and controls project.	X	5,025
Leominster	07/24/12	\$245,575	to fund an energy efficiency evaluation of the Wastewater Treatment Facility, stretch code and administrative support, and the following energy conservation measures: an energy management system, building envelope improvements, and mechanical upgrades and/or lighting retrofit in several schools and municipal buildings.		40,759
Leverett	12/20/11	\$138,750	to fund a Solar PV roof-mounted system at the Public Safety Complex; and energy efficient lighting upgrades at Town Hall, the Library, and the Public Safety Complex.		31,394
Lexington	05/25/10	\$158,083	to fund an energy efficient street lighting project.	X	1,851
		\$49,721	to fund a LED exterior parking lot lighting at Lexington High School	X	
Lincoln	05/25/10	\$140,294	to fund various energy efficiency measures in municipal buildings, including the K-8 school complex, the town library and Town Hall.	X	6,362
		\$242,079	To fund the incremental cost of an electric vehicle; administrative support; and the following energy efficiency measures in municipal buildings: in the Public Safety Department building, a new energy management system, a heat pump for the dispatch center, insulation and air sealing; in the Hartwell School, a new energy management system; and in Bemis School, a steam to hot water conversion with a condensing gas-fired boiler and forced hot water radiators with extension of upgrade to 2nd floor.	X	
Longmeadow	12/18/13	\$155,125	to fund administrative costs, a streetlight acquisition and LED conversion study, and implementation of approved energy conservation measures to be determined.		15,784
Lowell	05/25/10	\$546,506	to fund energy conservation measures, part of an energy management services contract for municipal facilities. Specifically to install a new energy efficient chiller at the JFK Civic Center and for light system upgrades including light retrofits, lighting controls, and vending machine misers in four schools: Greenhalge Elementary, McAvinnue Elementary, Murkland Elementary, and Pawtucketville Elementary.	X	106,519
		\$8,434	To fund administrative support and the following energy efficiency measures in municipal buildings: variable frequency driver pumps in the McAuliffe Elementary School, Butler Middle School, and Lincoln Elementary School.	X	
		\$205,778	to fund grant administration costs and the following energy conservation projects: replacement of condensing units at Sullivan & Wang Middle Schools and LED retrofit for historic streetlights along the Merrimack Riverwalk.		
Lunenburg	12/18/13	\$157,225	<i>Applicant period for grant projects is currently open; projects to be determined.</i>		10,086
Manchester-by-the-Sea	12/18/13	\$138,850	to fund energy conservation measures in the Town Hall/Police building, the DPW garage, and approved measures to be determined		5,136

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		\$3,715,756			
Marlborough	12/16/10	\$217,125	to fund the purchase of a hybrid vehicle; a site evaluation for a solar PV system; an Energy Efficiency Manager position; and the following energy conservation measures: lighting upgrades at 355 Bolton Street, 215 Maple Street, 260 Boston Post Road, 104 Pleasant Street; vending miser controls, building performance optimization, upgrade the ventilation in the auditorium and large gym and small gym and library at 25 Union Street; vending miser controls, occupancy sensors and CO2 controls at 17 Washington Street; vending miser controls, a VFD air unit, and occupancy sensors at 520 Farm Road; boiler/burner replacement at 80 Foley Road.		38,499
Mashpee	05/25/10	\$170,124	to hire an engineering firm and fund energy efficiency measures in municipal buildings, high efficiency gas-fired boiler and heat pump replacements at the Police Station, and rooftop HVAC units at KC Coombs Elementary School.	X	14,006
		\$13,500	To fund administrative grant management costs and the following energy efficiency measures in municipal buildings: air sealing in Town Hall; insulating the Heating Ventilation and Air Conditioning and Domestic Hot Water pipes and sealing / insulating the exterior ductwork on the roof in the KC Coombs School; and installation of photo cell lighting controls at Mashpee High/Middle and KC Coombs schools	X	
Maynard	12/20/11	\$160,025	to fund the following energy conservation measures: at Green Meadow School, installation of an energy management system; building envelope improvements; and a window A/C programmable thermostat; and at Fowler Middle School, an indoor and outdoor lighting retrofit.	X	10,106
Medford	05/25/10	\$271,851	to fund energy efficiency measures in school buildings and to update the municipal climate action plan.	X	56,173
		\$250,000	To fund the following energy efficiency measures in the Chevalier Theatre: heating system replacement and conversion from oil to natural gas that included separation of domestic hot water system and insulation of steam lines; and a steam trap survey and repairs.	X	
Medway	12/16/10	\$158,450	to fund an LED streetlight pilot as well as the following energy conservation measures: installation of variable frequency drives at 2 well pump stations; at Town Hall, lighting retrofit with LED lamps; in the Public Library, installation of Energy Management System controls, a lighting upgrade and sensors, and 2 new rooftop HVAC units; in the Police Station, lighting retrofit, new HVAC controls, and building envelope improvements; in Fire Station #2, lighting upgrade and sensors; in the Senior Center, lighting upgrade with sensors and hot water boiler controls; in the Highway Barn lighting upgrade and sensors; window replacement with Low-e double pane windows at Populatic Water Station; and vending machine controls in 4 of the buildings.	X	12,752
Melrose	05/25/10	\$176,265	to fund the services of an Owner's Agent and consultant, partial salary of an energy efficiency coordinator, and the following energy conservation measures: an LED post-top streetlight retrofit, exterior soccer field lighting controls, and interior lighting upgrades at the Police Station and Library Children's Room.	X	26,983
		\$250,000	to fund administration costs for an energy efficiency manager and a VAV conversion at Melrose High School		
Mendon	07/19/11	\$145,925	to fund a Green Communities program manager to oversee the grant projects, and the following energy conservation measures: installation of new energy efficient lights in the Library, Police Station, Fire Station, and Senior Center; installation of a new high-efficiency furnace for the Library that exceeds base code by at least 5 percent; an energy audit to identify potential additional energy conservation measures for the Town Hall, Library, Police Station, Fire Station, Highway Building and Senior Center; and implementation of DOER-approved measures from the completed audits.	X	5,839
		\$19,057	to fund grant administration costs and the following energy conservation measures: in the Fire Station, an energy efficient AC condenser; in the Highway Dept building, LED exterior lights and weatherization of the garage bay doors; and in Town Hall, replacement of the AC units	X	
Middlefield	07/19/11	\$138,025	to provide funds for a Residential Clean Energy Fund; to fund a 7.6 kW solar PV system on the Town Hall roof and to fund the following energy conservation measures: at the Town Garage, installation of attic insulation, window and door replacement, replacement of the furnace and hot water heater; at the Senior Center, installation of insulation in the walls, thermal window curtains, and replacement of the hot water heater; at the Town Hall, installation of insulation; at the Fire House, replacement of the hot water heater, furnace, and doors.		521
Millbury	07/19/11	\$167,025	to fund the following energy conservation measures: at Millbury Memorial Jr./Sr. High School, installation of occupancy motion sensors in bathrooms for lighting and exhaust fans, installation of ECM motors in unit ventilators and kitchen exhaust hood controls, retro-commissioning, installing ECM motors and evaporator fan controls in walk-in coolers, and replacing existing exterior lights with compatible LED fixtures; at the Elmwood Street and Shaw Middle Schools, installation of ECM motors and evaporator fan controls in walk-in coolers; at the Municipal Office Building, replacement of boiler reset control system, redesign of HVAC system, installation of vending machine misers, and a lighting upgrade; and exterior lighting upgrades for at the Municipal Office Building, Public Library, Asa Waters Mansion, and Town Common with LED technology.	X	13,261

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		\$2,432,686		24	
		\$3,715,756			
Milton	12/16/10	\$157,100	to offset costs associated with the installation of a wind turbine on municipal land and the fund the following energy conservation measures: conversion of 36 street lights with LCD technology; at the Police Station insulation and upgrades to the building envelope, installation of thermostats and setback controls on the boiler; at Town Hall installation of motion sensors; at the DPW design costs for highly efficient pump station pumps; at East Milton Fire Station installation of setback controls on the boiler; at Pierce Middle School energy efficient lighting replacements; at Collicot/Cunningham School retrofitting of 654 unit cabinet heaters in classrooms; and at the Council of Aging installation of insulation and vapor barrier in the attic area.	X	27,003
Monson	07/19/11	\$165,975	to fund an energy management system and upgrade to DDC at the Quarry Hill Elementary School and the incremental costs to purchase an energy efficient vehicle for the Senior Center.	X	8,560
Montague	05/25/10	\$154,944	to buy-down the cost of a performance contract, specifically energy conservation measures in Town Hall, Public Safety, and Carnegie Library buildings; lighting and lighting controls, building envelope and insulation, network controllers, an energy management system, and programmable thermostats.	X	8,437
		\$2,754	To fund installation of a Return Activated Sludge variable frequency drive and motor.	X	
Natick	05/25/10	\$173,526	to fund a solar PV power purchase agreement at the middle school, the incremental cost of a hybrid vehicle, and for carbon dioxide sensors at town hall.	X	33,006
		\$126,662	to fund the following energy conservation measures: retrocommissioning projects in Morse Library, Police & Fire Headquarters, and the Recreation Center; in Springvale Water Treatment Facility, generator heater and HVAC controls; installation of data point for 11 electric heaters at wells/sewer pumps; and installation/replacement of variable frequency drives at Captain Tom's Hill well.	X	
New Salem	12/16/10	\$138,100	to fund the installation of a 18.7 kW ground-mounted solar PV system on town-owned land.	X	990
		\$25,000	to fund the following energy conservation measures: at the main Fire Station, installation of slab insulation, and at the Public Library,	X	
Newburyport	12/16/10	\$154,980	to fund the following energy conservation measures at the Police Station and City Hall; air sealing, modification of HVAC system, lighting replacement, and other mechanical system improvements.	X	17,416
		\$158,145	to fund grant administration costs and the following energy conservation measures: at the public library, lighting controls, window improvements and HVAC retrocommissioning; and at Public Safety, lighting controls and replacement of domestic hot water system		
Newton	05/25/10	\$179,500	to fund the last phase of a comprehensive 'deep energy' retrofit of 1950's building specifically the remaining envelope improvements such as replacement of original, single pane windows with triple pane fiberglass, high performance glazing system, masonry wall insulation, foundation insulation and soffit insulation.	X	85,146
		\$250,000	to fund a citywide streetlight replacement project with LED equivalents		
Northampton	05/25/10	\$198,500	for a 51 kW solar power project on the Smith Vocational and Agricultural High School (SVAHS) and to purchase an energy auditor/building performance education kit for the SVAHS Home Building Program.	X	28,549
		\$98,000	To fund the following energy efficiency measures in municipal buildings: insulation and air sealing in the Academy of Music and Memorial Hall.	X	
Northfield	07/24/12	\$143,750	to fund the installation of a 4.8 kW PV array at Town Hall/Senior Center Pavilion, energy audits for several buildings and administrative support and the following energy conservation measures: at the Library, insulation in the attic and basement and window quilts; at Town Hall, air sealing and insulation in the attic and basement and installation of interior, transparent, double glazed, air tight window inserts; and implementation of approved energy conservation measures identified from the audits.		3,032
Palmer	05/25/10	\$169,103	to fund energy conservation measures at Town Hall including design services, conversion to a natural gas boiler, chiller, and condenser replacements with energy efficient units.	X	12,140
		\$224,190	to fund the following energy conservation measures in the Town Administration Building: installation of an energy management system, upgrade of HVAC piping, design and commissioning of the new system, replacement of fan/coil unit ventilators, and vending machine timers		
Pelham	07/24/12	\$138,100	to fund hiring an engineering consultant and roof insulation and air sealing at the Community Center.		1,321
Petersham	12/13/12	\$138,425	to fund ASHRAE Level II energy audits for Center School, Police and Fire Stations, Town Hall, Highway Barn, and Town Office Building and the following energy conservation measures: interior lighting retrofits in the same six buildings; and implementation of approved energy conservation measures identified from the audits in the six buildings.		1,234
Plympton	12/18/13	\$141,550	to fund energy conservation measures in Dennett School, Department of Public Works Barn, Town Hall/Police building, and the Library.		2,820

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		\$3,715,756			
Pittsfield	05/25/10	\$256,832	to fund installation of an energy management system and replace 53 unit heaters at City Hall.	X	44,737
		\$49,543	To fund a heating system conversion from electric to high-efficiency natural gas in the Lichtenstein Art Center.	X	
		\$250,000	to fund the conversion of all electric heating system to high-efficiency natural gas powered condensing boiler system at the Berkshire Athenaeum		
Provincetown	12/20/11	\$143,600	for an energy efficient heating system replacement at Veteran's Memorial School.	X	2,984
Quincy	12/20/11	\$370,325	to fund administrative costs and the following energy conservation measures: LED replacement for the decorative streetlights and retrocommissioning at the High School.	X	92,271
Revere	07/19/11	\$366,600	to fund energy conservation measures in City Hall, the Senior Center, and the Youth Center including energy management systems, steam trap upgrades, computer management systems, pipe and attic insulation, lighting retrofits, weather sealing, and controls on vending machines.	X	51,755
Richmond	07/24/12	\$137,300	to fund an Investment Grade Audit at the Town Hall and Garage; and implementation of approved energy conservation measures identified from the audit.		1,475
Rockland	12/13/12	\$185,425	to fund the following energy conservation measures in municipal buildings: lighting upgrades at the library, public works facility, and wastewater treatment plant; and implementation of approved energy conservation measures identified from audits.		17,489
Rowe	12/20/11	\$135,725	To fund energy education and outreach workshops for residents; a feasibility and implementation strategy study for the development of a residential home energy incentive program; implementation of a mini-grant program for residential home energy conservation measures; Solar PV roof-mounted systems on a Department of Public Works building and another on the Town Garage; and the following energy conservation measures: building insulation and energy upgrades in the Parks Building; installation of an on-demand hot water heater in Town Hall; and window quilt installations in the highway, parks, town hall, library, and town garage buildings.	X	393
Salem	05/25/10	\$245,624	for energy efficient streetlights, to buy down the cost of an energy service company contract, a residential weatherization pilot program and a bike sharing pilot program.	X	41,340
		\$244,986	to fund grant administration costs and the following energy conservation projects: retrocommissioning at 2 schools and 3 municipal facilities; retrocommissioning, infrared heaters, building envelope improvements, a new EMS, and outdoor lighting at the DPW Headquarters and Garage, and outdoor lighting at various locations		
Scituate	12/16/10	\$163,025	to fund energy conservation measures in several schools as part of a performance energy contract: building envelope improvements, water conservation measures, demand control ventilations, programmable thermostats, and exterior door replacements.	X	18,133
Sherborn	07/19/11	\$137,450	to fund anti-idling units for police and DPW vehicles and a high-level energy assessment of the Pine Hill School; and the following energy conservation measures: traffic signal conversion to LED technology; lighting upgrades at the Fire and Police Stations, Town Hall, and the Pine Hill School; building envelope improvements at the main Fire Station; and at the Library, conversion of the existing boiler from oil to gas.		4,119
Shirley	12/20/11	\$152,975	to fund the installation of idle reduction units in municipal vehicles, technical assistance to evaluate implementation of a town-wide energy savings performance contract, purchase of streetlights and the following energy conservation measures: a LED streetlight pilot project; at the VWar Memorial, a lighting upgrade including occupancy sensors, building envelope improvements and replacement of the boiler and hot water heater.		7,211
Shutesbury	07/19/11	\$142,275	to fund a 10-15 kW pole-mounted solar PV system at the Fire Station; an energy audit of the Fire Station to determine appropriate energy conservation measures for the heating and hot water system and implementation of DOEER-approved measures from the completed audit; and the following energy conservation measures: at the Town Hall, a HVAC upgrade; at the Elementary School, air sealing, fan controls and variable frequency drives; and an interior lighting upgrade at the Fire Station.		1,771
Somerville	07/19/11	\$362,175	to fund an assessment of solar PV rooftop suitability on multiple municipal buildings; installation of a new Energy Management System in the high school; streetlight replacements with LED technology in Union and Davis Square areas; hybrid retrofits for 2 vehicles; and installation of Electric Vehicle Charging Stations in 2 municipal parking lots.		75,754
Springfield	05/25/10	\$988,102	to replace inefficient boilers at the Deberry, Mary Lynch, and Freedman Elementary Schools and the Fire Repair Building; installation of vending machine misers at the Freedman and Brunton Elementary Schools and the Fire Repair Building; and for five energy management systems at the Deberry, Mary Lynch, Brunton, and Zanetti schools, the Fire Repair Building and the Sixteen Acres Branch Library.	X	153,060
		\$161,582	To fund administrative costs and the following energy efficiency measures in municipal buildings: in Pine Point Library, a web-based energy management system and high efficiency condensing boilers; and a web-based energy management system at the Balliet S.A.F.E. Middle School.	X	

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		\$3,715,756			
Sudbury	05/25/10	\$136,238	for energy efficiency measures in three municipal facilities, five town schools, the Fairbanks Community Center and the Lincoln/Sudbury Regional High School, and for the incremental costs of a fuel efficient vehicle.	X	17,659
		\$250,000	To fund the replacement of the roof-mounted Heat Recovery Ventilation (HRV) unit at the Sudbury Atkinson Pool Facility.	X	
Sunderland	07/24/12	\$146,450	to fund energy audits at six buildings; lighting retrofits at the Elementary School, Public Safety and Town Office buildings and the Wastewater Treatment Plant and Pump Station; and implementation of approved energy conservation measures identified from the audits.		3,684
Sutton	07/19/11	\$143,050	to fund an assessment of the feasibility of hydro at Stevens and Manchaug Dams; an energy audit to identify potential additional energy conservation measures at the Wastewater Treatment Plant, Sutton Senior Center and Fire Stations; and the following energy conservation measures: replacement of existing parking lot pole light heads with induction/LED fixtures; and, at the Municipal Complex, installation of a heat recovery system.	X	8,963
Swampscott	12/16/10	\$143,800	to fund the following energy conservation measures: high efficiency lighting retrofits and automatic lighting controls in the middle and high school, steam trap replacement in the elementary schools, and funding for a part-time Energy Manager.	X	13,787
		\$247,178	to fund the following energy conservation measures: building envelope improvements, weatherization and/or attic insulation in Clarke and Stanley Elementary Schools, Middle and High Schools, and the Fire Station; and in Clarke Elementary, steam trap replacement; and in the Public Library, replacement of HVAC equipment		
Tewksbury	07/19/11	\$207,725	to fund staff training on energy management systems; a consultant to oversee grant implementation projects; and the following energy conservation measures: retro-commissioning in the Police Station, Wynn and Ryan schools; and a lighting retrofits at the Dewing, Ryan and Wynn Middle schools.	X	28,961
Tisbury	07/24/12	\$140,925	to fund administrative support and implementation of approved energy conservation measures identified from energy audits at the Department of Public Works, Senior Center, Police Department, Town Hall and Annex, Vineyard Haven Library, Tisbury School, Wastewater Treatment Plant, and Water Department.		3,949
Topsfield	07/19/11	\$132,975	to fund building envelope weatherization at Proctor and Steward Elementary schools and four other municipal facilities; outdoor lighting retrofit program at Proctor and Steward Elementary schools, the Police, Fire, Library, and Department of Public Works buildings; ASHRAE Level 2 energy audits in same six buildings and Town Hall; indoor lighting retrofits at Proctor and Steward schools; and energy management system improvements, installation of VFDs and LED track lighting at the library.	X	6,085
Townsend	07/24/12	\$156,825	to fund the installation of idle reduction devices on two police vehicles; administrative support, energy audits at Town Hall and the Police Station and implementation of the following energy conservation measures: high efficiency boiler replacement at the Police Station, refrigerator at Town Hall, and lighting retrofits in eight facilities.		8,926
Truro	07/19/11	\$141,200	to fund a part-time Green Communities grant administrator position; installation of anti-idling devices on police cruisers; additional energy audits and implementation of identified energy conservation measures; and the following energy conservation and efficiency measures: at the Central School, installation of a zoned heating system; at the Public Safety Building, installation of roof insulation, a hot water recirculation system, and new propane-fired 95% efficient boilers; at the Community Center, installation of a tankless hot water system and heating zone valves; at Town Hall and the Library, installation of new natural gas high efficiency boilers.		2,003
Tyngsborough	05/25/10	\$161,649	to fund administrative support, incremental costs of a hybrid vehicle for the Fire Department, installation of two EV charging stations, an infrared scan of the Town Offices and the following energy conservation measures: building envelope improvements in town offices and the Tyngsborough Middle School and Administration Offices; exterior and/or interior lighting upgrades at five school and municipal facilities; a condensing boiler at the Police Station, motor and fan controls and VFDs at the High and Elementary schools.	X	11,292
Watertown	12/16/10	\$192,825	to fund high efficiency LED streetlight retrofits.	X	31,915
Wayland	12/16/10	\$131,775	to fund administrative support, owner's agent consultant services, and the following energy conservation measures: interior lighting upgrades at the Middle and Loker Elementary schools, and exterior lighting upgrades at the Middle School, Clay Pit, Happy Hollow, and Loker elementary schools, and Town Building, Fire Station #2, and Public Safety buildings.	X	12,994
Wendell	12/13/12	\$138,875	to fund a Citizen's Energy Conservation Fund, purchase a thermal imaging camera, and ASHRAE Level II energy audits for the Senior Center, Police Department, Garage / Fire Station, Town Hall, Library, and Town Office; and implementation of approved energy conservation measures identified from the audits in the six buildings.		848
Wenham	05/25/10	\$138,974	to buy down the cost of an energy savings performance contract for implementation of energy conservation measures at the Town Hall, Fire Station, Police Station, Council on Aging and Public Library.	X	4,875
		\$70,807	to fund the following energy efficiency measures in the Hamilton-Wenham Regional School District: motor and variable frequency drive (VFD) upgrades for four pumps; and kitchen ventilation controls at Buker, Cutler, and Winthrop elementary school buildings.	X	
West Newbury	12/18/13	\$140,900	Applicant period for grant projects is currently open; projects to be determined.		4,235

MA Green Communities	Designation Date	Designation Grant Award	Grant Project Summary	100% Done	Census 2010 Population
		Competitive Grant Award by Round			
123		\$23,579,558		68	3,146,732
		\$2,432,686		24	
		\$3,715,756			
West Tisbury	07/24/12	\$143,250	to fund the installation of idle reduction devices on six vehicles and implementation of approved energy conservation measures identified from audits for the Fire Station, Howes House, Public Safety building, and Town Hall.		2,740
Westford	12/18/13	\$156,025	to fund staff training and energy conservation measures in municipal buildings.		21,951
Westminster	12/13/12	\$141,500	to fund the following energy conservation measures in municipal buildings: HVAC control improvements at the Library, Town Hall, Public Safety, and Public Works buildings; interior and/or exterior lighting retrofits at the Elementary, Meetinghouse, and Academy Hill schools; Town Hall, Police & Fire stations, Library, Public Works, and Public Safety; installation of interior storm windows at the Library; and installation of new insulation at Public Safety and Public Works buildings.		7,277
Weston	12/20/11	\$138,675	to fund a boiler replacement in the Middle School with a gas-fired high efficiency condensing boiler.	X	11,261
Westwood	12/13/12	\$138,875	to fund fund the following energy conservation measures in municipal buildings: interior lighting retrofit and installation of occupancy sensors in the Deerfield and Hanlon Schools; installation of a new energy efficient boiler and installation of outdoor air temperature based control system for more efficient boiler operation at Deerfield School; and steam trap repairs and insulation of steam lines at Town Hall.		14,618
Whately	12/13/12	\$137,950	to fund energy conservation measures in municipal buildings		1,496
Williamsburg	12/18/13	\$142,975	to fund ASHRAE Level II energy audits for James School and Meekings Library, and implementation of approved energy conservation measures to be determined.		2,482
Williamstown	12/16/10	\$142,000	to fund an energy education and outreach program, solar PV roof-mounted array on Cemetery building, and the following energy conservation measures: mechanical/lighting/refrigeration upgrades and retrocommissioning at the Elementary School, lighting and sensor upgrades at the DPW building, and lighting retrofits at Milne library, Town Hall and the Council on Aging.		7,754
Winchester	12/16/10	\$151,475	to fund an Energy Conservation Coordinator position and the following energy conservation measures; retro-commissioning of the HVAC system and addition of variable frequency drives (VFDs) on Heat Pumps at McCall Middle School.	X	21,374
		\$198,820	to fund the following energy conservation measures: in the Public Library, an energy management system; in Town Hall, demand control ventilation; in the Public Safety building, condensing hot water boiler; in McCall Middle School, an energy management system, variable frequency drives, and a air handling unit; in Lynch School, demand control ventilation in three locations; in Ambrose School, occupancy sensors, and in the Lincoln School, demand control ventilation in the gym, adding gym AC rooftop units to the energy management system, installation of VFDs on hot water pumps, and installation of motor on one circulation pump	X	
Winthrop	12/13/12	\$169,625	to fund administrative costs and the following energy conservation measures in municipal buildings: at the Newton Cultural Center, installation of an energy management system and lighting upgrade; at Gorman/Ft. Banks Elementary, cooler/freezer controls, building envelope improvements, lighting upgrades and an energy management system; at the Middle School, cooler/freezer controls and a lighting upgrade; at Town Hall, steam trap replacement, building envelope improvements, and lighting upgrades; a lighting upgrade at the Police Station, and installation of variable frequency drives and motor upgrades at two pump stations.	X	17,497
Woburn	07/19/11	\$231,925	to fund an LED streetlight conversion project on main thoroughfares and many secondary roads and retrofitting downtown decorative lights.	X	38,120
Worcester	05/25/10	\$852,083	to fund a residential stretch code implementation program that provides grants to property owners to upgrade existing buildings to meet the performance requirements of the Stretch Energy Code and to fund an outreach campaign to market the program and educate residents.		181,045