



CITY OF NEW BEDFORD

JONATHAN F. MITCHELL, MAYOR

September 15, 2016

City Council President Linda M. Morad and
Honorable Members of the City Council
City Hall, 133 William Street
New Bedford, MA 02740

Dear Council President Morad and Honorable Members:

I am submitting for your consideration an Ordinance amending Chapter 6 of the New Bedford Code of Ordinances by the Addition of Article IX adopting the Stretch Code, 780 CMR Appendix 115.AA, to the 9th Edition Massachusetts Building Code.

Upon adopting the Stretch Code, the City will have satisfied the last of five criteria required to apply for the Commonwealth's "Green Communities" designation. The Green Communities Designation and Grant Program is an important source of state financial assistance for qualifying municipalities. As of today, there are 155 Massachusetts cities and towns designated as a Green Community and able to benefit from the program. We estimate that upon receiving the designation for New Bedford, we will be eligible for approximately \$500,000 in initial funding for a project or projects related to energy efficiency, renewable energy, or related initiatives. Moreover, acquiring the designation allows us to assume our rightful place among municipalities that are considered leaders in sustainability and resiliency statewide and nationally.

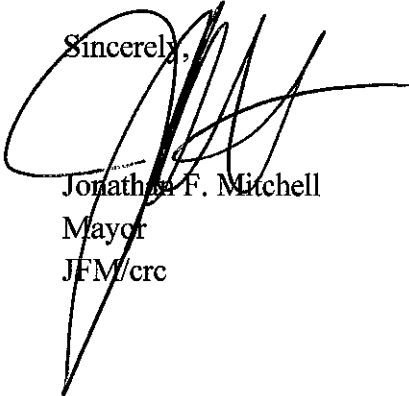
The City's Department of Inspectional Services and DPI Energy Office have determined that adoption of the Commonwealth's Stretch Code will have a negligible impact on the local building industry and on local economic activity for two important reasons:

1. As of January 1, 2017 both the Base Energy Code as well as the Stretch Energy Code will be updated, with the new Stretch Code incorporated into the new Base Code, eliminating the extensive separate language to describe it.
2. The updated Stretch Code will apply only to new commercial buildings over 100,000 square feet. However, smaller new commercial buildings or additions, renovation, and repairs to residential or commercial buildings will not be impacted by the updated Stretch code.

Enclosed for your information is a more detailed memorandum explaining the Green Communities Program, a detailed description of the components of the new Stretch Code, and a map and funding matrix of the 155 Green Communities designees from the Department of Energy Resources. Staff from the DPI Energy Office, Inspectional Services, and the State Department of Energy Resources will be on hand when the Council considers this measure and will be ready to address any questions that the Council may have.

Thank you for your consideration.

Sincerely,



Jonathan F. Mitchell

Mayor

JFM/crc



CITY OF NEW BEDFORD

In the Year Two Thousand and Sixteen

AN ORDINANCE

Amending Chapter 6 of the New Bedford Code of Ordinances by the Addition of Article IX adopting the Stretch Code, 780 CMR Appendix 115.AA, to the 9th Edition Massachusetts Building Code, including any future editions of, amendments to or modifications of said appendix

31- 509

Be it ordained by the City Council of the City of New Bedford as follows:—

SECTION 1. Chapter 6 hereby is amended by inserting after Article XIII the following new Article IX entitled: Stretch Code, 780 CMR Appendix 115.AA.

ARTICLE IX. - STRETCH CODE, 780 CMR APPENDIX 115.AA,

Sec. 152. – Purpose.

The purpose of the Stretch Energy Code is to provide a more energy efficient alternative to the Base Energy Code applicable to the relevant sections of the building code for both new construction and existing buildings.

The City of New Bedford's certification under the Massachusetts Green Community Act requires that the City adopt the Stretch Code which allows the city access to state grants for energy improvements and encourages the building of energy efficient homes and businesses and constitutes the final step required for the city to qualify for Green Community Status from the Commonwealth of Massachusetts

Sec. 153. – Definitions

- a. International Energy Conservation Code (IECC): The International Energy Conservation Code (IECC) is a building energy code created by the International Code Council. It is a model code adopted by many state and municipal governments in the United States for the establishment of minimum design and construction requirements for energy efficiency, and is updated on a three-year cycle. The baseline energy conservation requirements of the Massachusetts Building Code are the IECC with Massachusetts amendments, as approved by the Board of Building Regulations and Standards.

- b. **Stretch Energy Code:** The Stretch Energy Code is a Massachusetts building code based on further amendments to the International Energy Conservation Code (IECC) to improve the energy efficiency of buildings built to this code. The Stretch Energy Code was codified by the Board of Building Regulations and Standards as an appendix, 780 CMR Appendix 115.AA, to the 9th Edition Massachusetts Building Code. For the purposes of this definition, the Stretch Energy Code shall include any future editions of, amendments to, or modifications of said appendix.

Section 154. – Applicability

The Stretch Energy Code applies to residential and commercial buildings. Buildings not included in this scope shall comply with 780 CMR 13, 34, 51, as applicable.

Section 155. – Stretch Energy Code

The Stretch Energy Code hereby is incorporated, by reference, into the City of New Bedford Code of Ordinances.

Section 156. – Enforcement

The Stretch Energy Code shall be enforceable by the inspector of buildings.

Section 157. - Enactment

Section 2. This ordinance shall take effect in accordance with the provisions of Chapter 43 of the General Laws.

BACKGROUND:

On July 2, 2008, Governor Patrick signed the Green Communities Act (the "Act"), which is a comprehensive piece of energy reform legislation promoting development of renewable energy, energy efficiency, "green communities," and implementation of the Regional Greenhouse Gas Initiative ("RGGI"). Following passage of the Green Communities Act in 2008, DOER launched the Green Communities Designation and Grant Program in 2009.

GREEN COMMUNITIES PROGRAM

The Green Communities Designation and Grant Program (the Program) provides qualifying municipalities with financial and technical assistance. As of today, there are 155 MA cities and towns designated as a Green Community. As energy leaders in Massachusetts, these communities are eligible for competitive state grants. Nearly \$29 million from those Green Community grants is already at work in 136 communities, with more than \$3 million in additional grants for energy projects in the newest 19 designated communities on an array of energy activities: from reducing energy use in municipal and school buildings to establishing power purchase agreements that enable financially attractive renewable energy generation, adopting the latest building codes, and much more.

A map of the Green Communities and the respective grant awards is attached.

GREEN COMMUNITY DESIGNATION PROCESS

Municipalities are designated as "Green Communities" by satisfying 5 criteria spelled out in the legislation. The City has satisfied the first four of these requirements.

The purpose of this memo is to address the fifth and final criteria to be satisfied, Stretch Code Adoption.

The 5 criteria are:

CRITERIA #1: As of right zoning for renewable/alternative energy generation, research & development, or manufacturing facilities.

New Bedford has as-of-right zoning in place and thus satisfies this requirement.

CRITERIA #2: Expedited application and permit process for as-of-right energy facilities: 43D SITES

New Bedford has 6 sites that were approved 43D on April 9, 2008 and thus satisfies this requirement

CRITERIA #3: Energy Baseline / 20 percent energy reduction plan

New Bedford has updated its original 2010 reduction and thus satisfies this requirement

CRITERIA #4: Purchase only fuel efficient vehicles

New Bedford has updated its original 2010 vehicle plan and thus satisfies this requirement

CRITERIA #5: Minimize life-cycle costs (STRETCH CODE ADOPTION)

The stretch code must be adopted by general ordinance via City Council.

THE STRETCH CODE

The Stretch Energy Code was added to the building code on July 24, 2009 and is located in the code as Appendix 115 AA. It uses provisions of the International Energy Conservation Code 2009 (IECC 2009) but provides a more energy efficient alternative to the standard energy provisions of the code that a municipality may adopt. To satisfy the 5th criteria of the Green Community Designation process, the Stretch Code must be adopted by general ordinance via City Council. Attached is the Stretch Code Ordinance and a description of the current code.

New Stretch Energy Code

Effective January 1, 2017

Massachusetts gives communities two options for their building energy code – a base energy code or an optional stretch energy code. Cities can choose to adopt the stretch energy code by City Council vote and it can be rescinded by City Council vote. Becoming a Green Community requires that the City Council adopt the Stretch Code.

On January 1, 2017, both the Base Energy Code as well as the Stretch Energy Code will be updated. The difference between the two will be much smaller than in the past. In fact, the new Stretch Code will be incorporated into the new Base Code, with no more extensive and separate language to describe it. The updated Stretch Code will apply to new commercial buildings over 100,000 square feet. However, smaller new commercial buildings or additions, renovation, and repairs to residential of commercial buildings are not impacted by the updated Stretch code.

A key feature of the Stretch Energy Code is that it is performance based. It requires new construction homes to meet a HERS (Home Energy Rating System) index rating target, rather than requiring the installation of specific levels of energy efficiency for each building element (e.g. Windows, Wall insulation, roof insulation, furnace etc.). The HERS rating is a measure based on a home's total expected energy use and overall efficiency. It is calculated by a certified HERS rater using accredited software, which uses information on the design of the energy systems in a home to calculate the annual energy needs of the home and give it a rating score.

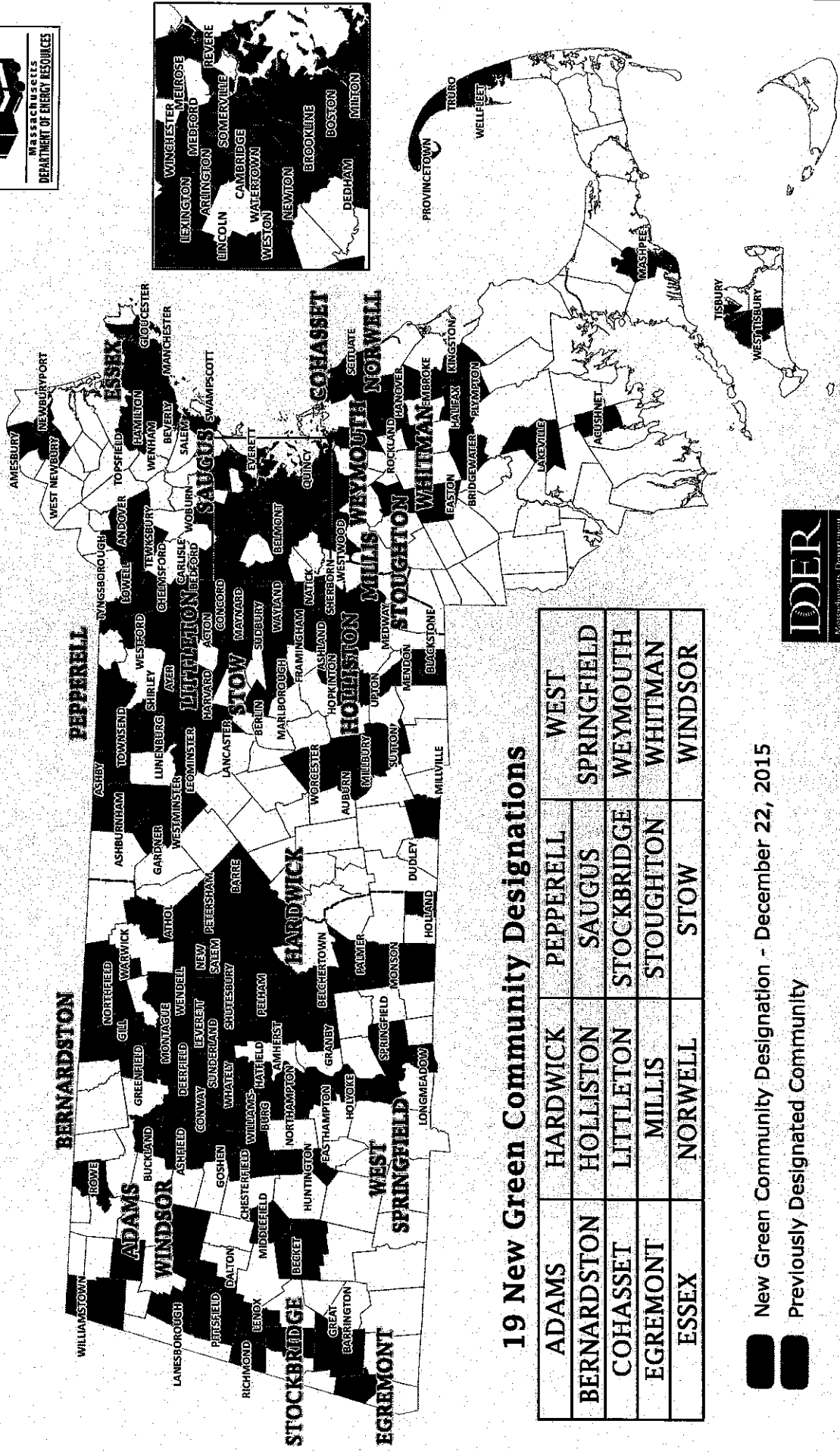
One benefit of using HERS ratings for compliance with the Stretch Energy Code is that builders do not have to install specific energy efficiency measures, rather they have the flexibility to choose which energy efficiency measures to install, and how to design the home in order to meet the HERS rating target. It is also a way to ensure that homes are well built. As part of the HERS rating, the HERS rater tests the home for air leakage and inspects insulation installation, which helps ensure that the home performs as designed.

Since the base energy code is updated approximately every 3 years, the Stretch Energy Code must be updated periodically in order to maintain the "stretch." The Board of Building Regulations and Standards (BBRS) and the Department of Energy Resources (DOER), two state entities responsible for the building energy codes, have completed work on a new stretch energy code. Basically, it would require that the performance path of the standard building code be followed in Stretch Code municipalities for new homes and for large new commercial buildings. When the new Stretch Code goes into effect, the additional cost will be primarily for the services of the HERS Rater. This is generally in the \$900 - \$1500 range for residences with a \$700 incentive available through the Mass Save Residential New Construction Program to offset the cost. There are also typically significant annual energy bill savings that more than tip the balance to give homeowners a net savings every year.

Once adopted, the stretch energy code would take effect on January 1, 2017. Currently 176 communities, representing more than half of the state's population, have adopted the Stretch Energy Code. Here is a link to information on the municipalities that have adopted the Stretch Code:

<http://www.mass.gov/eea/docs/doer/green-communities/grant-program/stretch-code-towns-adoption-by-community-map-and-list.pdf>

GREEN COMMUNITY DESIGNATIONS REACH ONE HUNDRED FIFTY-FIVE



19 New Green Community Designations

ADAMS	HARDWICK	PEPPERELL	WEST
BERNARDSTON	HOLLISTON	SAUGUS	SPRINGFIELD
COHASSET	LITTLETON	STOCKBRIDGE	WEYMOUTH
EGREMONT	MILLIS	STOUGHTON	WHITMAN
ESSEX	NORWELL	STOW	WINDSOR

-  New Green Community Designation - December 22, 2015
-  Previously Designated Community



J. Pfister, 12-22-15

MA Green Communities	Designation Date /Award Date	Designation Grant		Grant/Project Summary	100% Done	Census 2013 Population
		Award	Competitive Grant Award by Round			
155	July-12		\$28,781,573	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.	102	3,611,499
	July-13		\$2,419,773		18	
	July-14		\$3,621,952		20	
	July-15		\$7,627,398		36	
	July-16		\$8,733,989		32	
			\$9,580,467		0	
Andover	5/25/10		\$160,329	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; installation of LED exterior lighting and air sealing in the Public Safety Center; installation of demand control ventilation in Memorial Hall Library, Andover High School, and Andover West Middle School; and installation of variable frequency drives in the High School.	X	34,477
	July-12		\$220,599		X	
	July-15		\$191,901	to fund the following energy conservation measures: in the High School, air sealing to improve the building envelope, exterior LED lighting retrofit and interior LED lighting and controls in school hallways, and plug load management controls; in West Middle and West Elementary Schools, interior LED lighting and controls in school hallways; and replacement of two pumps and motors in the Bancroft Pump Station		
Arlington	5/25/10		\$200,188	to fund conversion to high-efficiency LED streetlights; and replacement of steam traps; and an upgrade for energy management system at the Hardy School.	X	44,028
	July-12		\$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	
	July-14		\$247,894	to fund administration costs and energy conservation measures in the Ottoson Middle and Arlington High Schools	X	
	July-15		\$240,000	to fund the following energy conservation measures: at Bishop Elementary School, installation of a new energy management system, boiler 3-way valve and piping, modifications to existing heating system, and exterior lighting retrofit with LEDs; at Brackett Elementary School, installation of a Fault Detection and Diagnostic System and refrigeration controls for walk-in freezer; at Ottoson Middle School, replacement of domestic hot water system with a new efficient condensing boiler and exterior lighting retrofit with LEDs; at Peirce Elementary School, refrigeration controls for walk-in freezer and exterior lighting retrofit with LED; at the High School, exterior lighting retrofit with LED; and at Hardy Elementary School, installation of new programmable thermostats compliant with existing energy management system	X	
	July-16		\$247,943	to fund the following energy conservation measures: in Town Hall, installation of a web-based Energy Management System, interior and exterior LED lighting retrofit, and step-down transformer upgrades; in Hardy Elementary School, install boiler 3-way valve for building hot water temperature and exterior LED lighting retrofit; and interior and/or exterior LED lighting retrofits in four schools and two municipal facilities		
Ashburnham	12/3/14		\$150,825	to fund administrative costs and the following energy conservation measures at Stevens Library: interior lighting retrofits, installation of a heat pump system, installation of insulation in the attic, and retrocommissioning; and implementation of approved energy conservation measures in municipal buildings to be determined		6,155
Ashby	12/18/13		\$133,350	to fund ASHRAE Level II energy audits for Town Hall, Police and Fire Stations, Library, Highway Building #1 & #2; and implementation of the following energy conservation measures: in Town Hall, building envelope improvements, installation of a condensing boilers, temperature controls and exterior storm windows; at the Highway Building #2, building envelope improvements; and at the Police Station, energy management system controls updated.		3,161

MA Green Communities	Designation Date / Award Date	Designation Grant		Grant Project Summary	100% Done	Census 2013 Population
		Award	Competitive Grant Award by Round			
155	July-12		\$28,781,573	to fund an intern in the DPW department 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 Spectacle Pond Well, installation of a variable frequency drive on the well pump; at Town Hall, conversion of fan coil thermostats to direct digital control and occupancy sensors; installation of smart strips in municipal office buildings; at the Police Dept., exterior lighting retrofit; and a street lamp replacement project in the downtown	102	3,611,499
	July-13		\$2,419,773		18	
	July-14		\$3,621,952		20	
	July-15		\$7,627,398		36	
	July-16		\$8,733,989		32	
			\$9,580,467		0	
Ayer	7/19/11		\$151,175	to fund the following energy conservation measures: a town wide LED streetlight conversion; installation of a variable frequency drive on Spectacle Pond Well 1 pump; and interior and/or exterior lighting upgrades at three municipal facilities	X	7,821
	July-16		\$217,046			
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.		5,446
Becket	5/25/10		\$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	7/19/11		\$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	13,975
	July-13		\$199,778	to fund phase one of a streetlight upgrade to LED technology	X	
	July-15		\$238,415	to fund the following energy conservation measures: a town wide LED streetlight conversion with sensors; at the Police Department, installation of boiler controls and variable frequency drives on pumps; at the Public Library, installation of variable frequency drives; and at Davis Elementary and John Glenn Middle Schools, installation of demand control ventilation	X	
Belchertown	5/25/10		\$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	14,735
	July-15		\$53,055	to fund the installation of an Electronic Fuel Management System and software for municipal vehicles and establishment of a behavioral-based program and the following energy conservation measures: at the Old Town Hall, installation of a new efficient boiler; and installation of new exterior storm windows at the Freedom Center Building and Recreation Center Building	X	
Belmont	12/3/14		\$151,850	to fund energy conservation measures in municipal facilities		25,332
Berlin	7/24/12		\$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	2,942
	July-14		\$120,962	to fund energy conservation measures in Town Hall, Berlin Memorial School, and the Municipal/Public Safety Building	X	
	July-16		\$123,211	to fund the following energy conservation measures: at Berfin Memorial School, building weatherization, UV and HVAC measures: lighting upgrades in six facilities; temperature controls in all buildings including the Library, new condensing furnace for the Fire Station; boiler and radiator replacements for Town Hall; and domestic hot water unit replacement for Council of Aging; and implementation of approved energy conservation measures to be determined		
Bernardston	12/22/15		\$131,290			2,123

MA Green Communities	Designation Date / Award Date	Designation Grant		Grant/Project Summary	100% Done	Census 2013 Population
		Award	Competitive Grant Award by Round			
155	July-12	\$28,781,573		to fund grant administration costs, technical services to evaluate the feasibility of a solar PV system and for design and engineering of boiler replacements in two libraries, and implementation of the following energy conservation measures: an LED Street Light Conversion Project; at the Main Library, interior lighting upgrades and occupancy sensors and installation of a jockey boiler; installation of a jockey boiler at the Coolidge Corner branch library; exterior lighting upgrades for Pierce and Lawrence schools and two buildings at the High School; and interior and exterior lighting upgrades at the main High School building	102	3,611,499
	July-13	\$2,419,773			18	
	July-14	\$3,621,952			20	
	July-15	\$7,627,398			36	
	July-16	\$8,733,989			32	
		\$9,580,467			0	
Brookline	7/19/11	\$215,050		to fund the following energy conservation measures: interior lighting retrofit with LEDs at Brookline High School and the Tappan Street Gym and Pool; and conversion of exterior lighting in parks and open spaces owned by the town to cobrahead LED lighting	X	59,128
	July-15	\$214,840			X	
	July-16	\$125,000		to fund the following energy conservation measures: Interior LED lighting upgrades at Driscoll School, the Senior Center, and the Eliot Recreation Center		
Buckland	7/19/11	\$134,150		to fund consultant services for development of bid documents and project oversight of a two-phase project in Town Hall; building envelope improvements including insulation and siding, and mechanical retro-commissioning of existing HVAC system	X	1,889
Cambridge	5/25/10	\$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	107,289
	July-12	\$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	
	July-13	\$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.	X	
Carlisle	7/19/11	\$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	5,028
	July-14	\$48,763		to fund energy conservation measures in three municipal buildings, Gleason Library, and Carlisle School	X	
	July-15	\$116,059		to fund the following energy conservation measures: at Gleason Library, installation of heating system controls; at Town Hall, Carlisle School, and Gleason Library, retro-commissioning; and at Carlisle School, interior LED lighting retrofits and occupancy controls, refrigeration and kitchen hood controls, variable frequency drives on rooftop units and domestic hot water pumps; and an electricity to natural gas heating system conversion, instantaneous water heater, and interior LED lighting retrofit in the Brick Building	X	
	July-16	\$202,381		to fund the following energy conservation measures: town wide LED streetlight conversion; interior and/or exterior LED lighting upgrades in five facilities; a new heat pump at the WWTP; faucet aerators and low flow showerheads and/or programmable thermostats at three facilities; spray foam insulation at Town Hall; and new insulated bay door at the DPW		

GREEN COMMUNITY DESIGNATIONS REACH 155

MA Green Communities	Designation Date / Award Date	Designation Grant		Grant Project Summary	100% Done	Census 2013 Population
		Award	Competitive Grant Award by Round			
155	July-12		\$28,781,573		102	3,611,499
	July-13		\$2,419,773		18	
	July-14		\$3,621,952		20	
	July-15		\$7,627,398		36	
	July-16		\$8,733,989		32	
			\$9,580,467		0	
Dudley	12/3/14	\$169,800		the installation of IdleRight units on Police vehicles, administrative costs and the following energy conservation measures: at the Municipal Complex, exterior LED lighting retrofit, installation of an energy management system, and installation of two variable speed drives and efficient motors for the heating system; at the Highway Department, interior and exterior lighting retrofit; and implementation of approved energy conservation measures in municipal buildings to be determined		11,516
Easthampton	5/25/10	\$174,985		to fund replacement of streetlights with LED technology.	X	15,971
	July-14	\$147,653		to fund the following energy conservation measures: in White Brooke Middle School, new mechanical louvers, air sealing, boiler controls, insulation of steam pipes, and ductwork in the boiler room, and new faucet aerators; in Pepin Elementary, weather stripping and door sweeps on exterior doors, sealing and insulation in the walk-up attics, efficient motors installed, faucet aerators, mechanical louvers, air sealing, and new ductwork in the boiler room, and CO2 sensors installed in the air handler in the gym; in Maple Elementary, exterior doors weatherized, steam traps repaired, and new faucet aerators installed; and Center Elementary School steam traps repaired and faucet aerators installed	X	
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	23,753
	July-13	\$250,000		to fund insulated garage door retrofit at the DPW/Fire facility and an LED streetlight project	X	
	July-15	\$200,000		to fund the following energy conservation measures: an upgrade of the energy management systems at Easton Middle and Oliver Ames High Schools		
Egremont	12/22/15	\$138,570		to fund the following energy conservation measures: weatherization in seven municipal facilities; lighting upgrades at Fire House 1 and the Highway Garage; and furnace replacements at the Free Library and Fire House 1		1,224
Essex	12/22/15	\$130,270		to fund the following energy conservation measures at the Essex Town Hall and Library Complex, a major building renovation project that includes a new roof, roof insulation, new windows, storm windows, oil (steam) to gas (hot water) boiler conversion, new electric heat pumps and all HVAC demolition work		3,606
Everett	12/3/14	\$307,175		to fund administrative costs and the following energy conservation measures: the purchase of the city's streetlights and conversion to LED technology		42,935
Framingham	12/18/13	\$301,900		to fund a lighting design study for the Main Library and lighting conversion to LED fixtures throughout the Library	X	70,441
	July-16	\$250,000		to fund the following energy conservation measures: at the Callahan Senior Center, rooftop unit (RTU) replacement, and at the Police Dept., RTU and chiller replacement with energy efficient equipment		
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.	X	20,354
	July-15	\$72,850		to fund storm window replacement in City Hall Annex		
Gill	7/24/12	\$139,900		to fund a geothermal feasibility study for Town Hall and 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; attic insulation and weatherization for Town Hall and Riverside; and implementation of approved energy conservation measures identified from the audits.		1,491

MA Green Communities	Designation Date / Award Date	Designation Grant		Grant Project Summary	100% Done	Census 2013 Population
		Award	Competitive Grant Award by Round			
155	July-12		\$28,781,573		102	3,611,499
	July-13		\$2,419,773		18	
	July-14		\$3,621,952		20	
	July-15		\$7,627,398		36	
	July-16		\$8,733,989		32	
			\$9,580,467		0	
Hanover	5/25/10	\$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	14,280
	July-13	\$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	
	July-14	\$183,041		to fund administration costs and energy conservation measures in Cedar, Sylvester, and Middle Schools and the Salmond Administration Building	X	
	July-15	\$158,936		to fund project administration, building operator certification training, and the following energy conservation measures: installation of an efficient boiler at the Fire Department; boiler controls at the Water Treatment Plant; and interior lighting retrofits at the Senior Center, Public Works, Highway and Cedar, Center, Middle and High Schools	X	
	July-16	\$144,731		to fund the following energy conservation measures: at the Middle School, Demand Control Ventilation upgrade and LED lighting retrofit; and at the Public Library, LED lighting retrofit		
Hardwick	12/22/15	\$150,510		to fund purchase and installation of IdleRight technology in 2 town-owned and 1 to be leased vehicles; and implementation of approved energy conservation measures to be determined		2,997
Harvard	12/16/10	\$141,200		to 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, a deep energy retrofit analysis for Town Hall and VFDs, motor, and CO2 sensor upgrades at the public library.	X	6,569
	July-15	\$225,914		to fund project administration, building operator certification training, and the following energy conservation measures: at the Public Library, retro-commissioning and an interior LED lighting retrofit; at Bromfield School, an exterior LED lighting retrofit, lighting controls for hallways, and retro-commissioning (Bromfield/Hildreth School complex); for Hildreth Senior Center, installation of an efficient furnace; and exterior LED lighting retrofits at the DPW and Police Department		
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	3,282
	July-14	\$160,913		to fund energy conservation measures in the Elementary School, Smith Academy, Highway Garage, and Wastewater Treatment Plant	X	
Holland	7/19/11	\$143,250		to fund administrative costs and an energy audit to identify potential energy conservation measures in the Elementary and the following energy conservation measures: installation of an energy management system in the main building; and replacement of three classroom unit ventilators in the Elementary School	X	2,495
Holliston	12/22/15	\$147,445		to fund the following energy conservation measures: at the Fire Station, installation of programmable thermostats, air sealing and insulation, and installation of a new efficient gas fired boiler with an indirect water heater; at Town Hall, conversion to LED lighting with controls and air sealing and insulation; and at the Police Station, LED lighting with controls		14,162

GREEN COMMUNITY DESIGNATIONS REACH 155

MA Green Communities	Designation Date /Award Date	Designation Grant		Grant Project Summary	100% Done	Census 2013 Population
		Award	Competitive Grant Award by Round			
155	July-12		\$28,781,573		102	3,611,499
	July-13		\$2,419,773		18	
	July-14		\$3,621,952		20	
	July-15		\$7,627,398		36	
	July-16		\$8,733,989		32	
			\$9,580,467		0	
Lancaster	5/25/10		\$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.	X	8,054
	July-16		\$250,000	to fund the following energy conservation measures: at the Prescott Building, a fuel conversion (oil steam to electric heat pump) of the HVAC system, and installation of an efficient oil boiler for supplemental heating		
Lanesborough	12/3/14		\$135,300	to fund the following energy conservation measures: in the Lanesborough Elementary School, weatherization of the building envelope, installation of demand control ventilation sensors, and relocation of several classroom thermostats; and implementation of approved energy conservation measures in municipal buildings to be determined		3,037
Lenox	5/25/10		\$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	4,983
	July-15		\$144,590	to fund the following energy conservation measures: at Morris Elementary School, upgrade of the air handling unit controls to DDC/electronic controls; and upgrade of hydronic pumping, radiation and convection, exhaust fans controls and integration of all into the building's energy management system	X	
Leominster	7/24/12		\$245,575	to fund administrative costs and the following energy conservation measures: at Johnny Appleseed School, an energy management system, building envelope improvements, freezer/cooler controls and motors, variable frequency drives and motors for 2 circulating pumps, and a destratification fan in gymnasium; in Skyview School, exterior lighting retrofit, fan controls with motors, destratification fans, and vending misers; in Northwest School, building envelope improvements; in City Hall, building envelope improvements, variable frequency drives and motors on two hot water pumps and on two air handling units; in Gallagher Administration building, variable frequency drives and motors on four pumps; at Samoset School, interior lighting retrofit for the gymnasium; and interior and exterior lighting retrofits at the Council on Aging and Veterans Center	X	41,002
			\$250,000	to fund a city wide streetlight LED conversion		
Leverett	12/20/11		\$138,750	to fund the following energy conservation measures: a 15 kW pole-mounted Solar PV system at the Public Safety Complex; efficient interior lighting upgrades at Town Hall, the Library, and the Public Safety Complex; and at the Elementary School, installation of variable speed drives on hot water pumps, an upgrade and repairs with controls added to the heating system, replacement of belimo valves, and computer upgrades to allow performance monitoring	X	1,861
			\$158,083	to fund an energy efficient street lighting project using induction and compact fluorescent bulbs.	X	
Lexington	5/25/10		\$47,440	to fund a LED exterior parking lot lighting at Lexington High School	X	32,650
	July-13		\$54,068	to fund exterior lighting upgrade to LED technology in four schools and two municipal facilities	X	
	July-14		\$238,997	to fund the following energy conservation measures at municipal schools: interior lighting retrofits with LEDs at Clarke Middle, Lexington High, Fiske Elementary, Harrington Elementary, Bridge Elementary, Bowman Elementary, and Diamond Middle Schools	X	
	July-15		\$244,960	to fund the following energy conservation measures: installation of energy modeling analytics software in five schools and two facilities; EnergyStar refrigeration controls in two schools; and LED lighting retrofit at the Public Services Building		

MA Green Communities	Designation Date /Award Date	Designation Grant Award		Grant/Project Summary	100% Done	Census 2013 Population	
		Competitive Grant Award by Round					
155	July-12	\$28,781,573		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.	102	3,611,499	
	July-13	\$2,419,773			18		
	July-14	\$3,621,952			20		
	July-15	\$7,627,398			36		
	July-16	\$8,733,989			32		
		\$9,580,467			0		
Marlborough	12/16/10	\$217,125		to fund the following energy conservation measures: at City Hall, installation of a new energy management system and installation of an energy efficient heat pump	X	39,414	
	July-16	\$250,000		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.			
	5/25/10	\$170,124		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		
Mashpee	July-12	\$13,500		to fund the following energy conservation measures at K. C. Coombs School: installation of new condensing HVAC boilers, new condensing domestic hot water heater, demand control ventilation in the gym, café, and library, new energy recovery ventilators for classroom wings, automatic daylighting control in the central library, and unoccupied temperature setbacks		14,068	
	July-15	\$163,537		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		
	12/20/11	\$160,025		to fund exterior lighting upgrades in two schools and seven municipal facilities and weatherization upgrades in Fowler School and the Police Station	X		
Maynard	July-14	\$100,245		to fund an interior LED lighting retrofit at Fowler School, and a town wide streetlight LED conversion	X	10,370	
	July-15	\$104,287		to fund the following energy conservation measures: a town wide LED streetlight conversion; purchase of an electric vehicle and installation of an EV charging station; at Fowler Middle School, installation of an energy management system and duct static reset and LED lighting retrofit; at the Highway Barn, installation of infrared heating and LED lighting retrofit; and at the Fire Dept., repair of steam traps and valves	X		
	July-16	\$246,792		to fund energy efficiency measures in school buildings and to update the municipal climate action plan	X		
	5/25/10	\$271,651		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	57,170	
Medford	July-12	\$250,000		to fund administration costs and energy conservation measures in the five municipal facilities or schools	X		
	July-14	\$140,080		to fund costs of project management, building operator certification training, and the following energy conservation measures: interior and/or exterior LED lighting upgrades in six schools and one facility	X		
	July-16	\$250,000					

GREEN COMMUNITY DESIGNATIONS REACH 155

MA Green Communities	Designation Date / Award Date	Designation Grant		Grant/Project/Summary	100% Done	Census 2013 Population
		Award	Competitive Grant Award by Round			
155	July-12		\$28,781,573	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.	102	3,611,499
	July-13		\$2,419,773		18	
	July-14		\$3,621,952		20	
	July-15		\$7,627,398		36	
	July-16		\$8,733,989		32	
			\$9,580,467		0	
Millbury	7/19/11		\$167,025	to fund energy conservation measures in two schools and three municipal facilities	X	13,399
	July-14		\$247,596		X	
	July-16		\$247,661			
Millis	12/22/15		\$151,325	to fund the following energy conservation measures: a town wide LED streetlight conversion, purchase of four electric vehicles and installation of three EV charging stations; at Elmwood School, interior and exterior LED lighting retrofit and a high efficiency transformer; and at Millbury High School, an LED lighting retrofit		8,047
Millville	12/3/14		\$143,625	to fund the installation of anti-idling devices and a town-wide LED streetlight conversion and the following energy conservation measures: building envelope improvements at Animal Control and Waste Water Treatment Facility/Well Pump House 5 & 6; refrigeration controls at the Middle/High School; exterior lighting upgrade at the Transfer Station, and well operation improvements for the water & sewer system		3,210
Milton	12/16/10		\$157,100	to fund administrative costs and public education, installation of idle reduction systems on a police cruiser, the incremental costs to purchase a hybrid vehicle for the Police Department, and the following energy conservation measures: exterior LED lighting retrofits at six municipal facilities, weatherization upgrades at three municipal buildings; walk-in EC motor controls at the elementary school; and roof insulation at the Fire Station	X	27,270
	July-15		\$235,605	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 decorative streetlights with LED technology; at the Police Station installation of insulated garage doors and installation of thermostats and setback controls on the boiler; at Town Hall installation of heating controls, replacing exterior doors, and upgrading interior lights; at Randolph and Granite Ave. sewer pump stations, installation of VFDs; at Pierce Middle School energy efficient lighting replacements; at Pierce Middle School upgrade of interior lighting; and at the Council of Aging installation of solar roof vents	X	
Monson	7/19/11		\$165,975	to fund the following energy conservation measures: exterior lighting retrofits with LEDs at Cunningham/Collicot Elementary, Glover Elementary, Milton High, Tucker Elementary, Pierce Middle, and the Public Library; interior lighting retrofits with LEDs at Pierce Middle, Glover Elementary, Cunningham/Collicot Elementary, and Tucker Elementary; and installation of walk-in cooler/freezer controls at Pierce Middle, Cunningham/Collicot Elementary, Glover Elementary, Tucker Elementary, and Milton High schools	X	8,722
	July-15		\$187,038	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	
				to fund the following energy conservation measures: at Quarry Hill Community School, fiberglass wrapping of exposed pipes, a lighting retrofit with LEDs, and installation of variable frequency drives; at Granite Valley Middle School, weatherization, fiberglass wrapping of exposed pipes, and a lighting retrofit with LEDs; at the Water & Sewer Building, weatherization and a lighting retrofit with LEDs; at Town Hall/Police Station, installation of plug load controllers; and lighting retrofits with LEDs at the Fire Station, Highway Garage, Senior Center, and Water & Sewer Building	X	

GREEN COMMUNITY DESIGNATIONS REACH 155

MA Green Communities	Designation Date / Award Date	Designation Grant Award	Competitive Grant Award by Round	Grant Project/Summary	100% Done	Census 2013 Population
165	July-12	\$26,781,573			102	3,611,499
	July-13	\$2,419,773			18	
	July-14	\$3,621,952			20	
	July-15	\$7,627,398			36	
	July-16	\$8,733,989			32	
		\$9,580,467			0	
Newton	5/25/10	\$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	87,971
	July-13	\$250,000		to fund a citywide streetlight replacement project with LED equivalents	X	
	July-15	\$236,878		to fund the following energy conservation measures: in Countryside Elementary and Oak Hill Middle Schools, interior lighting upgrades to LED with motion controls; and in Police Headquarters and Garage, interior and exterior lighting upgrades to LED with motion controls	X	
	July-16	\$250,000		to fund the following energy conservation measures: interior LED lighting upgrades and controls at three schools		
Northampton	5/25/10	\$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	28,495
	July-12	\$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	July-14	\$181,393		to fund energy conservation measures in the library, water treatment plant, and Smith Vocational High School, and outdoor post-top LED lighting in the downtown		3,023
	7/24/12	\$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.		
Norwell	12/22/15	\$146,520		to fund a replacement of the energy management system to increase efficiency and optimize HVAC operation and control and an interior and exterior LED lighting retrofit in Town Hall		10,723
Palmer	5/25/10	\$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	12,157
	July-13	\$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	X	
	July-15	\$211,584		to fund the following energy conservation measures: weatherization at the Library, DPW Garage, Converse Middle School, Old Mill Elementary School, and Palmer High School; exterior or interior lighting retrofit with LEDs at the Wastewater Treatment Plant, Converse Middle, Old Mill Elementary, and the High School; and a burner upgrade for HVAC system at the WWTP	X	
Pelham	7/24/12	\$138,100		to fund hiring an engineering consultant and roof insulation and air sealing at the Community Center.		1,319
Pembroke	12/3/14	\$174,400		to fund the following energy conservation measures: at Pembroke Library, installation of a new energy management system (EMS) and variable frequency drives (VFDs); and at Town Hall, installation of a new EMS and a tower VFD	X	18,097
	July-16	\$250,000		to fund the following energy conservation measures: LED lighting retrofits at four schools		
Pepperell	12/22/15	\$152,910		to fund administrative costs, and the following energy conservation measures: building envelope improvements at one regional school and five facilities; lighting upgrades at three facilities; and installation of an energy management system, demand control ventilation and front end upgrades at Nissittis Middle School		11,876

GREEN COMMUNITY DESIGNATIONS REACH 155

MA Green Communities	Designation Date / Award Date	Designation Grant Award	Competitive Grant Award by Round	Grant Project Summary	100% Done	Census 2013 Population
155	July-12		\$28,781,573	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.	102	3,611,499
	July-13		\$2,419,773		18	
	July-14		\$3,621,952		20	
	July-15		\$7,627,398		36	
	July-16		\$8,733,989		32	
			\$9,580,467		0	
Rowe	12/20/11		\$135,725	to fund the following energy conservation measures: at the DPW garage, an oil to wood pellet fuel heating system conversion and insulation and air sealing; at Town Hall, the Library, and Fire/Police Station, insulation and air sealing of the building envelope; and at the Library, an oil to electricity fuel conversion and installation of an air source heat pump	X	392
	July-15		\$154,776		X	
Salem	5/25/10		\$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	42,544
	July-13		\$223,769	to fund grant administration costs and the following energy conservation projects: retrocommissioning studies at 2 schools and 4 municipal facilities; a new Energy Management System and infrared heaters, building envelope improvements, and outdoor lighting at the DPW Headquarters and Garage; and outdoor LED shoebox lighting retrofit in the downtown.	X	
	July-15		\$229,708	to fund a complete city wide LED streetlight conversion	X	
Saugus	12/22/15		\$208,335	to fund administrative costs, purchase of two battery electric vehicles, installation of a Level 2 EV charging station and the following energy conservation measures: lighting upgrades at Veterans Memorial and Belmonte Middle Schools; commissioning analysis and improvements of HVAC system, and installation of variable frequency drives and efficient motors at Veterans Memorial Elementary School		27,735
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	18,297
	July-14		\$89,304	to fund installation of high efficiency transformers for the sewer pump stations	X	
	July-16		\$207,506	to fund the following energy conservation measures: installation of efficient variable frequency drives on four water treatment or well pump motors; and at Jenkins School, installation of air handling unit motors and replacement of lighting fixtures		
Sherborn	7/19/11		\$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.	X	4,239
	July-15		\$77,800	to fund the following energy conservation measures at Pine Hill School: upgrades to air handlers in the library and gym; upgrades to unit ventilators in classrooms; and insulation and air sealing of the building envelope	X	
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 War Memorial, a lighting upgrade including occupancy sensors, building envelope improvements and replacement of the boiler and hot water heater.	X	7,613
	July-16		\$72,742	to fund a new direct expansion/air handling unit (AHU/DX) condensing unit		

GREEN COMMUNITY DESIGNATIONS REACH 155

MA Green Communities	Designation Date / Award Date	Designation Grant		Grant/Project Summary	100% Done	Census 2013 Population
		Award	Competitive Grant Award by Round			
155	July-12		\$28,781,573		102	3,611,499
	July-13		\$2,419,773		18	
	July-14		\$3,621,952		20	
	July-15		\$7,627,398		36	
	July-16		\$8,733,989		32	
			\$9,580,467		0	
Sutton	7/19/11		\$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	9,133
	July-14		\$169,797	to fund project administration costs and energy conservation measures in the Sutton Municipal and School Complexes	X	
	July-16		\$121,732	to fund the following energy conservation measures: at the Senior Center, a new efficient boiler and building insulation; at the School Complex, LED lighting retrofit and unit ventilator ECM motors; at Fire Station 2, building weatherization improvements and a new programmable thermostat; and new programmable thermostats at two facilities		
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	13,951
	July-13		\$195,853	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	X	
	July-15		\$225,000	to fund a complete town wide LED streetlight conversion		
	7/19/11		\$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	
Tewksbury	July-14		\$157,826	to fund exterior lighting upgrades in four schools and four municipal facilities and weatherization upgrades in the DPW building and an outdoor air reset in Loella Dewing School	X	30,107
	July-15		\$210,739	to fund the following energy conservation measures: at the Public Library, variable frequency drives on air handling units and exterior lighting retrofit; at the Food Pantry, installation of a unit heater and interior lighting retrofit; at the Senior Center, retro-commissioning; at Ryan Middle School, interior LED lighting retrofit and lighting controls; at South Fire Station, exterior LED lighting retrofit; and a interior LED lighting retrofit at the High School	X	
	July-16		\$187,201	to fund the following energy conservation measures: at the DPW, a new efficient unit heater; and at the Library, installation of new efficient hot water heating equipment		
	7/24/12		\$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.		
Tisbury	7/19/11		\$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	6,388
Topsfield	July-14		\$48,936	to fund a high efficiency steam boiler at the town library	X	
	July-15		\$36,418	to fund the following energy conservation measures: at Proctor Elementary School, the installation of a new domestic hot water condensing unit and improvements of the building envelope; and at Steward Elementary School, the installation of a new domestic hot water condensing unit		

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		Award	Competitive Grant Award by Round			
155	July-12 July-13 July-14 July-15 July-16		\$28,781,573	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. to fund administrative costs, building envelope improvements, a oil to gas boiler conversion, and other energy conservation measures in eight schools and municipal facilities	102	3,611,499
			\$2,419,773		18	
			\$3,621,952		20	
			\$7,627,398		36	
			\$8,733,989		32	
			\$9,580,467		0	
Wayland	12/16/10 July-14	\$131,775 \$250,000		X X	13,444	
Wellfleet	12/3/14	\$140,000	to fund project management costs and the following energy conservation measures: in Town Hall, replacement of fan coil units with electronic commutative motors and an oil to propane heating system fuel conversion with new efficient boiler; at the Elementary School, DHW demand controller with mixing valve and variable frequency drives and efficient motors; and at the DPW Barn, a new heating system with infrared units for the large maintenance bay and installation of an efficient propane boiler; and implementation of approved energy conservation measures in municipal buildings to be determined		2,733	
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.		868	
Wenham	5/25/10	\$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	5,055	
	July-12	\$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		
	July-14	\$245,603	to fund a town wide streetlight conversion to LED technology, and energy conservation measures in the Hamilton Wenham Regional Middle and High Schools, and four municipal facilities	X		
	July-16	\$249,950	to fund an upgrade of the Building Automation System at the Hamilton Wenham Regional High School / Miles River Middle School Complex			
West Newbury	12/18/13	\$140,900	to fund the following energy conservation measures: interior and exterior lighting efficiency retrofits of the 1910 Building, interior and exterior lighting efficiency retrofits of the Public Safety Complex, and a lighting efficiency retrofit of the G.A.R Memorial Library	X	4,437	
West Springfield	12/22/15	\$222,765	to fund interior and exterior lighting upgrade at the Shaker Road Drinking Water Pumping and Treatment Facility; and implementation of approved energy conservation measures to be determined		28,684	
West Tisbury	7/24/12	\$143,250	to fund the installation of idle reduction devices on two public safety vehicles, project management costs and the following energy conservation measures: at the Public Safety Building, high performance cooling equipment and infrared tube heaters (an oil to propane fuel conversion) for the truck bay; at Howes House, installation of an air source heat pump/cooling system (an oil to electric fuel conversion) and replacement windows; in Town Hall, installation of automatic daylighting controls; and in Fire Station 1, installation of an air source heat pump/cooling system (an oil to electric fuel conversion)		2,874	

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155	July-12	\$28,781,573			102	3,611,499
	July-13	\$2,419,773			18	
	July-14	\$3,621,952			20	
	July-15	\$7,627,398			36	
	July-16	\$8,733,989			32	
			\$9,580,467		0	
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. to fund the following energy conservation measures: purchase of electric vehicle (BEV) and installation of an EV charging station; and new efficient modulating/condensing hot water boilers at Milne Public Library 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. 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	7,599
	July-16	\$65,936				
	12/16/10	\$151,475			X	
Winchester	July-13	\$198,620		to fund conversion of streetlights to LED technology to fund the purchase of an electric powered vehicle and the following energy conservation measures: at the Library, energy management system controls upgrade; and exterior lighting retrofit with LEDs at the Town Hall/Library parking lot and the Senior Center to fund the following energy conservation measures: at McCall School, interior LED lighting retrofit, and refrigeration controls, at Parkhurst School, HVAC improvements and installation of a ductless air source heat pump; at Town Hall, damper controls in the auditorium and air sealing in the sheave room; at Mystic School/Recreation Dept, upgrade and repair of steam traps; and exterior LED lighting upgrades at three schools Applicant period for grant projects is currently open; projects to be determined.	X	22,079
	July-14	\$250,000			X	
	July-15	\$115,203			X	
	July-16	\$215,204				
Windsor	12/22/15	\$137,880		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.		903
Winthrop	12/13/12	\$169,625		to fund energy conservation measures in the Cummings and Middle Schools to fund the following energy conservation measures: weatherization at the Larsen Ice Rink; and lighting retrofits at the Public Works building and parking lot, the Ferry Terminal and Pier, Larsen Ice Rink, Ft. Banks Elementary and Cummings Elementary Schools to fund the following energy conservation measures: at the DPW, new infrared heaters; at Central Fire Station, repairs of steam traps and valves; Energy Analytics software for two schools; an update of controls for the chiller in the Larsen Rink	X	
	July-14	\$235,000			X	
	July-15	\$163,629			X	
	July-16	\$119,649				