

# TOWN OF MILLVILLE



# ENERGY BASELINE AND ENERGY REDUCTION PLAN

SEPTEMBER 16, 2014

## **I. PURPOSE AND ACKNOWLEDGEMENTS**

This Energy Reduction Plan (ERP) outlines the efficiency measures that are proposed to be implemented to reduce costs and environmental impacts of municipal energy use in the Town of Millville. The ERP was prepared in accordance with the Massachusetts Green Communities Grant Program Criteria 3.

### **A. Letters from Both General Government and School District Verifying Adoption of the ERP**

- **General Government** – A letter of approval of this ERP by the Board of Selectmen is attached to this plan in Appendix A.
- **Regional School Districts** – The Town of Millville is part of the Blackstone-Millville Regional School District. The Millville Elementary School is included in this Energy Reduction Plan. Please see attached document regarding Millville Elementary School found in Appendix A.

### **B. List of Contributors that Participated in the Baseline and ERP Process**

- Les Davis, Millville Green Committee Energy, Chairman
- Joseph G. Rapoza, Millville Green Energy Committee & Board of Selectman , Vice Chairman
- Gerald Finn, Millville Green Energy Committee, Secretary
- Joseph Laydon, Millville Green Energy Committee, Town Planner
- Helen Coffin, Millville Executive Secretary
- Ron Landry, Millville Green Energy Committee, Millville Police Chief and Fire Chief
- Trish Benoit, Millville Green Energy Committee, Public Safety Clerk

## **II. EXECUTIVE SUMMARY**

### **A. *Narrative Summary of the Town of Millville***

The Town of Millville is the second youngest town in Massachusetts, situated in southern Worcester County and bounds Rhode Island to the south. It lies in the Blackstone Valley, which is a designated National Historic Corridor and is known as the birthplace of the American Industrial Revolution. Millville, as its name indicates, was a small mill village, formerly part of Mendon and Blackstone to the east, and home to several manufacturing shops including U.S. Rubber Company.

The Blackstone River Valley National Heritage Corridor runs through Millville, along which are the remains of the Millville Locks on the canal, built in 1827 by laborers who had previously worked on the Erie Canal. With the planned completion of the Blackstone

River Greenway path in late 2014 through Millville, an increase in pedestrian and bicycle traffic is expected in our community.

According to the 2010 Census, there are 3,190 residents in Millville. There are 25 miles of public roadways that traverse the 5.00 square miles of land that make up the town. Millville is comprised of contrasting landscapes, a settled village center, with wooded outlying areas. Our community is divided into three zoning districts: Village Center (VC) and Village Residential (VR), and Outlying Residential (OR). Most residents commute to jobs in larger communities outside of Millville. Millville belongs to the Blackstone-Millville Regional School District.

### **B. *Summary of Municipal Energy Uses***

The total number of buildings is broken down by type of heating fuel as follows and in Table 1 below:

- *Total Number of Municipal Buildings* – The Town of Millville has 7 municipal buildings; Town Hall, Police Station, Fire Station, Library, Senior Center, Millville Elementary School, and a pump house for the town’s hydrant system. All buildings except for the pump house and Senior Center are heated with oil. The Senior Center is heated with propane and the pump house is heated by electricity. All buildings have electricity.
- *Building Additions and New Construction* – Millville is currently undertaking an evaluation study of various town buildings for upgrades.
- *Total Number of Vehicles* – The Town of Millville is responsible for 14 vehicles, of which 1 is in the non-exempt class. The remaining are emergency vehicles, police cruisers, firefighting apparatus and highway department vehicles over 8,500 GVW.
- *Total Number of Street Lights and Traffic Lights* – The Town of Millville does not own any traffic lights. The Town owns two street lights, one at the foot of Preston Street and the other at the Highway Yard Salt Shed. There are 128 street lights in the Town of Millville, not including floodlights, that are owned and maintained by National Grid.
- *Water and Sewer* – The Town of Millville is responsible for a small water hydrant system that provides water for fire protection service and is not a source of drinking water. The Town does not have a municipal drinking water or sewer system.

**C. *Summary of Energy Use Baseline and Plans for Reductions*** –The goal of the Town of Millville is to reduce municipal energy consumption by 20 percent and to become a Designated Green Community. The Town of Millville will use Fiscal Year (FY) 2014 as its baseline year and will seek to reduce energy by 20 percent between FY 2015 and FY 2019. In order to achieve this very aggressive goal the Town will pursue many energy efficiency and energy conservation measures. The Town currently has a comprehensive energy use baseline for FY 2014 (Figure 1 and Table 2). Town personnel have been trained to use the

MassEnergyInsight (MEI) online energy use analysis tool, and will continue to input data so that the data stays current and reduction activities can be tracked to help ensure the 20 percent reduction goal is met. When designated a Green Community, the Town of Millville intends to use the grant award to further energy efficiency improvements in Town buildings and vehicles and to initiate renewable energy solutions. The grant money can be used to purchase new equipment or to improve areas of greatest use as identified by Town residents, employees and officials, as well as through the use of MEI.

**Table 1: Summary of Municipal Energy Users**

	<b>Number</b>	<b>Ownership</b>
<b>Buildings</b>		
Oil Heat	<b>5</b>	Town of Millville
Oil Heat	<b>1</b>	Town of Millville / BMRSD
Natural Gas Heat	<b>0</b>	Not Available in Millville
Propane Heat	<b>1</b>	Town of Millville
Biomass Heat	<b>0</b>	
Electric Heat	<b>1</b>	Town of Millville
<b>Vehicles</b>		
Non-Exempt	<b>1</b>	Town of Millville
Exempt	<b>14</b>	Town of Millville
Exempt	<b>0</b>	BMRSD
<b>Water and Sewer</b>		
Drinking Water Treatment Plant	<b>0</b>	
Wastewater Treatment Plant	<b>0</b>	
Pumping Stations	<b>1</b>	Town of Millville

**Table 2: Summary of Municipal Energy Use Baseline**

<b>BASELINE YEAR FY2014</b>	<b>MMBTU Used in Baseline Year</b>	<b>% of Total MMBTU Baseline Energy Consumption</b>	<b>Projected Planned MMBTU Savings</b>	<b>Savings as % of Total MMBTU Baseline Energy Consumption</b>
<b>Buildings</b>	<b>5,542.24</b>	<b>81.52%</b>	<b>804</b>	<b>11.83</b>
<b>Vehicles</b>	<b>1,253.37</b>	<b>18.44%</b>	<b>475</b>	<b>6.99</b>
<b>Water/Sewer/Pumping</b>	<b>2.68</b>	<b>.039%</b>	<b>0</b>	<b>0</b>
<b>Open Space</b>	<b>0</b>	<b>0%</b>	<b>0</b>	<b>0</b>
<b>Total</b>	<b>6798.59</b>	<b>100%</b>	<b>1501</b>	<b>18.82%</b>

### **III. ENERGY USE BASELINE INVENTORY**

#### ***A. Identification of the Inventory Tool Used***

The Town of Millville used the Department of Energy Resources (DOER) MassEnergyInsight (MEI) web-based energy use analysis tool for our ERP.

#### ***B. Identification of the Baseline Year***

The ERP uses Fiscal Year (FY) 2014 as the baseline year and ends the 5-year plan period in FY 2019. FY 2014 ran from July 1, 2013 to June 30, 2014. The total consumption of energy in FY2014 was 6798 MMBTUs.

#### ***C. Municipal Energy Consumption for the Baseline Year***

During the baseline year, FY 2014, the total energy use in municipal vehicles and facilities in the Town of Millville was 6798.6 MMBTUs. Table 3 presents energy use for each municipal facility in Native Units and MMBTUs, respectively. The majority (56.47%) of energy consumed in FY 2014 in the Town of Millville went towards heating oil and propane for municipal buildings (3,839.50 MMBTUs). Of the total heating fuel consumed by municipal buildings, the highest proportion went towards heating the Millville Elementary School (74.26%), followed by the Town Hall (13.52%), and the Senior Center (3.04%).

Electricity represented 24.09% (1,736.73 MMBTU) of total energy consumed in FY 2014. The highest proportion of electricity used went towards the Millville Elementary School (66.25%), followed by Fire Department Station 1 (19.46%), the Police Station (7.140%), the Senior Center (3.939%), the Library (1.79%), and Town Hall ( 1.24%).

Gasoline and diesel fuel accounted for 18.44% (1,253.37 MMBTU).

Buildings: The seven municipal buildings in Millville used a total 5,545.22 MMBTUs of energy in FY 2014, accounting for 81.52% of all municipal energy use. The building with the largest energy consumption was the Millville Elementary School (3,936.32 MMBTU), followed by the Town Hall (539.34 MMBTU), Fire Department Station 1 (479.94 MMBTU), the Police Department (277.23 MMBTU), the Senior Center (181.15 MMBTU), followed by the Millville Free Public Library (128.57 MMBTU), and the Pump House (2.68 MMBTU).

Vehicles: Municipal vehicles accounted for 18.44% of the baseline total which is the equivalent of 1,253.37 MMBTUs. Nearly 81.96% of this energy use is in the form of gasoline (as opposed to diesel). The highest proportion of fuel was used by the Police Department (61.34%), followed by Fire Department (Diesel) (18.04%), and Highway (15.64%).

Water Facilities: The Town of Millville has one water facility, which provides water for the hydrant system. The pump house used 2.68 MMBTUs of energy in FY 2014, accounting for 0.0039% of the Town's overall energy use.

The Town of Millville does not currently utilize energy obtained from renewable sources in municipal facilities.

<b>Table 3: Municipal Energy Baseline</b>		<b>Fiscal Year 2014, Beginning July 1, 2013 and Ending June 30, 2014</b>										
		<b>Diesel</b>		<b>Electricity</b>		<b>Gasoline</b>		<b>Fuel Oil</b>		<b>Propane</b>		<b>Total</b>
		<b>Gallons</b>	<b>MMBTU</b>	<b>kWh</b>	<b>MMBTU</b>	<b>Gallons</b>	<b>MMBTU</b>	<b>Gallons</b>	<b>MMBTU</b>	<b>Gallons</b>	<b>MMBTU</b>	<b>MMBTU</b>
Building	Millville Senior Center			18,900	64.49					1,282	116.66	181.15
	Millville Elementary School			318,080	1085.29			20,511	2851.03			3,936.32
	Fire Dept. 1			93,405	318.70			1,160	161.24			479.94
	Police Station			34,274	116.94			1125	156.38	43	3.91	277.23
	Pump House			784	2.68							2.68
	Longfellow Town Hall			5,953	20.31			3,734	519.03			539.34
	Library			8,595	29.33			714	99.25			128.57
	<b>Total</b>			<b>479,991</b>	<b>1637.73</b>			<b>27,244</b>	<b>3,786.92</b>	<b>1,325</b>	<b>120.58</b>	5,545.22
Vehicle	Fleet Diesel, Fire Dept.	1,627	226.2									226.15
	Fire Fleet Gasoline					412	51.09					51.09
	Highway Fleet Gasoline					1,581	196.04					196.04
	Police Fleet Gasoline					6,200	768.80					768.80
	ACO Vehicle					91	11.28					11.28
	<b>Total</b>	<b>1,627</b>	<b>226.2</b>			<b>8,284</b>	<b>1027.22</b>					
<b>Grand Total</b>		<b>1,627</b>	<b>226.2</b>	<b>479,991</b>	<b>1637.73</b>	<b>8,284</b>	<b>1027.22</b>	<b>27,244</b>	<b>3786.92</b>	<b>1,325</b>	<b>120.58</b>	<b>6798.59</b>

## **IV. ENERGY REDUCTION PLAN**

### **A. Narrative Summary –**

Overview of Short-Term Goals: The following is a summary of actions that will be taken to implement the ERP.

1. *Overview of Goals for Years 1-3*
  - a. Weatherization Upgrades (Millville Elementary School)
  - b. Weatherization Upgrades (Library, Fire Station, Police Station)
  - c. Exterior Lighting Efficiency Improvements (Millville Elementary School)
  - d. Exterior Lighting Efficiency Improvements (Library, Fire Station, Police Station, Town Hall)
  - e. Vehicle Efficiency Improvements (purchase of hybrid Police cruisers)
  - f. Install idle-right in police fleet vehicles
  - g. Walk in ECMotors/Controls (Millville Elementary School)
  - h. Implementation of social and behavioral mechanisms that respond to environmental, workforce, and cultural needs, including but not limited to community, government and regional energy conservation initiatives
2. *Overview of Goals for Years 4-5*
  - a. Demand Control Ventilation (Millville Elementary School)
  - b. Interior Lighting Efficiency Improvements (Millville Elementary School)
  - c. Fire Station Heater Replacement (Infrared Heater Installation)
  - d. Fire Station Roof Insulation
  - e. Interior Lighting Efficiency Improvements (Library, Fire Station, Police Station, Town Hall)
  - f. Vehicle Efficiency Improvements (incremental purchase of hybrid Police cruisers)
  - g. Replacement of Town Hall Boiler
  - h. Energy Management System (Town Hall)
  - i. Adherence to social and behavioral implementations set forth, including but not limited to community, government and regional energy conservation initiatives
3. *Identify Areas of Least Efficiency/Greatest Waste*

The Millville Elementary School is the largest user of energy and therefore is the principle focus of energy efficiency improvements. However, given the broad identification of weatherization related improvements, weatherization is identified as the initial focus of the plan.



The replacement of the Fire Station's current heating system with an infrared system which provides spot warming and specific zone heating applications is a cost effective method to provide focused energy efficient heating for small buildings.

Many opportunities exist for reducing Police Department fuel costs significantly without degrading police services. An especially promising approach is to use hybrid, high-fuel-economy vehicles for part if not all of the patrol fleet. Hybrids typically use one-third the fuel of conventional vehicles, and quickly pay for the higher initial cost and conversion to police patrol use. A variety of driving practices and policies also contribute savings without sacrificing service.

***B. Getting to a 20% Energy Use Reduction Within the 5 Year Period Following the Baseline Year***

The Town of Millville is committed to reducing baseline (FY2014) energy consumption by 20% over the five year period from FY2015 to the end of FY 2019. A list of specific and documented strategies is presented in Table 4, and accounts for 18.82% of total projected savings. An additional 1.18% of projected energy savings include community, government and regional energy conservation initiatives.

1. *Program Management Plan for Implementation, Monitoring and Oversight* – The Town of Millville's Board of Selectmen will be responsible for general oversight of the energy efficiency projects as recommended by the Green Energy Committee.

The Green Energy Committee will be responsible for maintaining energy use data in MEI as well as administering, either internally or collaboratively with an identified available external resource, DOER Green Communities Annual Reporting requirements.

2. *Summary of Energy Audit(s) or Other Sources for Projected Energy Savings* - The Town of Millville contracted with Guardian Energy to undertake an audit of municipal energy use. A copy of the final audit is included in Appendix B.

3. *Energy Conservation Measures* – A list of documented and itemized energy conservation measures is presented in Table 4. These measures account for 18.82% of the projected 20% of energy Savings. This table contains detailed information such as project status, projected annual energy savings, projected annual cost savings, total project cost, incentive and finance information, funding sources as well as the reference source for all information.

### ***C. Summary of Long-Term Energy Reduction Goals – Beyond 5 years***

1. Municipal Buildings Town Buildings are the largest users of energy. Since many of the buildings are used on a part time basis, space utilization studies shall be combined with education of building occupants on energy reduction strategies, including the feasibility of more structured evening town government business scheduling. Long-term planning shall include development and implementation for energy efficiency and renewable energy in renovation and new construction projects for Town buildings and structures.
2. Vehicles: The Town has implemented a vehicle replacement policy and plan for the reassignment or disposal of vehicles and equipment. Aggressive preventive maintenance routines, based on local driving conditions and manufacturer's recommendations, for each type of vehicle or equipment and each type of maintenance service are well documented for all Town vehicles.
3. Perpetuating Energy Efficiency – The Town of Millville Green Energy Committee proposes creating an energy conservation savings reinvestment plan to help finance future energy efficient/renewable energy projects. The Committee will initiate discussions with the Board of Selectmen.

### ***V. Onsite Renewable Energy Projects & Renewable Energy***

The Town of Millville is not presently engaged in onsite, renewable energy generation on Town property. After completion of the energy conservation measures described, Millville will pursue possible onsite generation of electricity by a PV array mounted on the Fire Station and Police Station roof. The Town will also investigate a biomass source for heating at the Fire Station and Police Station, and follow-up on existing preliminary plans for generation of electricity by a micro-hydro turbine located along the Blackstone River.

### ***VI. List of Resources***

The Town of Millville used the following people and resources to create this ERP:

- Kelly Brown: Green Communities Regional Coordinator, Massachusetts Department of Energy Resources (DOER). [Kelly.brown@state.ma.us](mailto:Kelly.brown@state.ma.us)
- Green Communities Grant Program Information and Guidance: MA DOER, [www.mass.gov/energy/greencommunities](http://www.mass.gov/energy/greencommunities)
- Energy Audit Report: Prepared by Guardian Energy. 2014 (see Appendix B)

**Table 4**  
**Energy Conservation Measures Data**

Measure		Status	Energy Data			Financial Data						Reference Data	
Category/Building	Energy Conservation Measure	Status (Completed with month/year or planned Qtr/year)	Projected Annual Electricity Savings (kWh)	Projected Annual Oil Savings (gallons)	Projected Annual Gasoline Savings (gallons)	Projected Annual Cost Savings (\$)	Total Installed Cost (\$)	Green Community Grant (\$)	Utility Incentives (\$)	Other Grants (\$)	Net Cost (\$)	Funding Source(s) for Other Grants and Net Town Costs	Source for Projected Savings
Millville Elementary	Demand Control Ventilation	Q2 / FY2017	4,400	2,100	0	\$7,357	\$99,966	\$0	\$10,800	\$0	\$89,166		2014 Guardian Energy Audit
Millville Elementary	Weatherization Upgrades	Q2 / FY2016	0	987	0	\$3,168	\$31,957	\$31,957	\$0	\$0	\$31,957		2014 Guardian Energy Audit
Millville Elementary	Exterior Lighting	Q2 / FY2016	20,173	0	0	\$2,824	\$27,281	\$27,281	\$3,450	\$0	\$0		2014 Guardian Energy Audit
Millville Elementary	Interior Lights	Q2 / FY 2018	19,888	0	0	\$2,585	\$33,622	\$0	\$5,100	\$0	\$28,522		2014 Guardian Energy Audit
Fire Station	Roof Insulation	Q1 / FY 2017	0	655	0	\$2,293	\$56,027	\$56,207	\$0	\$0	\$56,027		2014 Guardian Energy Audit
Town Hall	Boiler Upgrade	Q2 / FY 2018	0	400	0	\$1,380	\$87,909	\$0	\$0	\$0	\$87,909		2014 Guardian Energy Audit
Fire Station	Heating system	Q2 / FY 2018	7,200	0	0	\$1,080	\$80,080	\$0	\$160	0	\$79,920		2014 Guardian Energy Audit
Town Hall	Energy Management System	Q2 / FY 2018	2,400	0	0	\$744	\$53,837	\$0	\$3,600	\$0	\$50,237		2014 Guardian Energy Audit
Millville Sr. Center	Exterior Lighting	Q2 / FY2016	2,129	0	0	\$319	\$1,216	\$1,066	\$150	\$0	\$1,066		2014 Guardian Energy Audit
Millville Elementary	Walk in EC Motors/ Controls	Q2 / FY2016	3,586	0	0	\$502	\$5,169	\$5,169	\$897	\$0	\$4,272		2014 Guardian Energy Audit
Millville Free Library	Weatherization Upgrades	Q3 / FY 2016	0	82	0	\$312	\$16,234	\$16,234	\$0	\$0	\$16,234		2014 Guardian Energy Audit
Police Station	Exterior Lighting	Q2 / FY 2016	1,174	0	0	\$200	\$578	\$578	\$75	\$0	\$503		2014 Guardian Energy Audit
Town Hall	Exterior Lighting	Q2 / FY 2016	1,073	0	0	\$182	\$1,414	\$1,414	\$225	\$0	\$1,189		2014 Guardian Energy Audit
Town Hall	Weatherization Upgrades	Q2 / FY 2018	0	30	0	\$104	\$2,070	\$0	\$0	\$0	\$2,070		2014 Guardian Energy Audit
Police Station	Weatherization Upgrades	Q3 / FY 2016	0	24	0	\$98	\$1,165	\$1,165	\$0	\$0	\$1,165		2014 Guardian Energy Audit
Fire Station	Weatherization Upgrades	Q2 / FY 2016	0	20	0	\$69	\$777	\$777	\$0	\$0	\$777		2014 Guardian Energy Audit
Millville Free Library	Exterior Lighting	Q2 / FY 2016	438	0	0	\$66	\$1,683	\$1,683	\$0	\$0	\$1,683		2014 Guardian Energy Audit
Fire Station	Exterior Lighting	Q2 / FY 2016	337	0	0	\$57	\$421	\$421	\$75	\$0	\$346		2014 Guardian Energy Audit
<b>BUILDINGS SUBTOTAL</b>			<b>62,798</b>	<b>4,298</b>	<b>0</b>	<b>\$23,340</b>	<b>\$501,406</b>	<b>\$143,952</b>	<b>\$24,532</b>	<b>\$0</b>	<b>\$453,043</b>		
Vehicles, Poilce Fleet	Anti-idling retrofit for 4 police cruisers	Q4 / FY 2015	0	0	2,025	\$7,088	\$4,500	\$0	\$0	\$0	\$4,500	Town Budget FY2015	<a href="http://green.autoblog.com">green.autoblog.com</a>
Vehicles, Police Fleet	Incremental Purchase of 3 Hybrid Cruisers	Q3 / FY 2019	0	0	1,807	\$5,421	\$0	\$0	\$0	\$0	\$105,000	Town Capital Budget	<a href="http://www.fueleconomy.gov">www.fueleconomy.gov</a>
<b>VEHICLES SUBTOTAL</b>			<b>0</b>	<b>0</b>	<b>3,832</b>	<b>\$12,509</b>	<b>\$4,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$109,500</b>		
<b>TOTAL Projected Savings</b>			<b>62,798</b>	<b>4,298</b>	<b>3,832</b>	<b>\$35,849</b>	<b>\$505,906</b>	<b>\$143,952</b>	<b>\$24,532</b>	<b>\$0</b>	<b>\$562,543</b>		
<b>TOTAL MMBtu SAVINGS</b>			<b>1,287</b>	<b>214</b>	<b>597</b>	<b>475</b>							

## MMBTU Conversion Chart

### Fuel Energy Content of Common Fossil Fuels per DOE/EIA

#### BTU Content of Common Energy Units – (1 million Btu equals 1 MMBTU)

- 1 kilowatt hour of electricity = 0.003412 MMBTU
- 1 therm = 0.1 MMBTU
- 1 ccf (100 cubic foot) of natural gas = 0.1028 MMBTU (based on U.S. consumption, 2007)
- 1 gallon of heating oil = 0.139 MMBTU
- 1 gallon of propane = 0.091 MMBTU
- 1 cord of wood = 20 MMBTU
- 1 gallon of gasoline = 0.124 MMBTU (based on U.S. consumption, 2007)
- 1 gallon of E100 ethanol = 0.084 MMBTU
- 1 gallon of E85 ethanol = 0.095 MMBTU
- 1 gallon of diesel fuel = 0.139 MMBTU
- 1 gallon of B100 biodiesel = 0.129 MMBTU
- 1 gallon of B20 biodiesel = 0.136 MMBTU
- 1 gallon of B10 biodiesel = 0.137 MMBTU
- 1 gallon of B5 biodiesel = 0.138 MMBTU
- 1 barrel of residual fuel oil = 6.287 MMBTU

### FOR MORE INFORMATION

Website:

[www.mass.gov/energy/greencommunities](http://www.mass.gov/energy/greencommunities)



## TOWN OF MILLVILLE

MASSACHUSETTS 01529

Longfellow Municipal Center  
8 Central Street  
Fax (508) 883-2994

# *Criterion 1*

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## *As-of-Right Siting*

*Millville Annual Town Meeting May14, 2012*

### *Town Meeting Approvals:*

*Article 21: Site Plan Review – Zoning Bylaw Amendment*

*Article 22: Renewable Energy Overlay District – Zoning Bylaw*



# *Town of Millville*

**CERTIFICATION**  
OFFICE OF THE TOWN CLERK

Longfellow Municipal Center  
8 Central Street, Millville, MA  
Phone: (508)883-5849  
Fax: (508)883-2994

I, Marcia T. Lanctor, Town Clerk of Millville, Massachusetts, certify that the following action was taken on Article 21 and Article 22 at the Annual Town Meeting on May 14, 2012.

**ARTICLE 21: SITE PLAN REVIEW - ZONING BY-LAW AMENDMENT.** To see if the Town will vote to amend the Town of Millville Zoning By-laws by creating a new Article X entitled Site Plan Review, as follows:

## **ARTICLE X – SITE PLAN REVIEW**

### Section 1. Statement of Purpose.

The purpose of this section is to provide for individual detailed review of development proposals which have an impact on the natural or built environment of the Town of Millville in order to promote the health, safety and general welfare of the community; to ensure adequate parking, safe and accessible pedestrian and vehicular circulation; and to minimize traffic impact on Town streets.

### Section 2. Applicability.

The following types of activities and uses require site plan review by the Planning Board:

(B) Any use identified in Article III, Section 2 – Schedule of Use Regulations that requires a special permit issued by the Planning Board per Article III, Section 2;

(B) Any facility proposed in accordance with Article XI entitled Renewable Energy Overlay District

### Section 3. Procedures.

(A) One original and 10 copies of the completed application form, and one original and five copies of the plans and related materials shall be submitted to the Planning Board or its agent. Concurrently, one copy of the completed application form shall be submitted by the applicant to the Town Clerk, and a receipt therefor shall be submitted with the Planning Board copy of the application form. Once the Planning Board or its agent determines the SPA application submitted to be completed, one copy of the application form shall be transmitted to at least the following: the Planning Board consultant, ZBA, Building Department, Board of Health, Conservation Commission, Highway Department, Fire Department, Police Department, Water Department and Highway Department. A file copy of the plans and related materials shall remain in the Planning Board office to serve as a common review copy. The other copies shall be distributed as needed.

(B) Each board or department receiving the application form as required by Section 3, (A) above may, within 30 calendar days of the date of the complete application submittal, file with the Planning Board or its agent a written report recommending approval, approval with modifications or conditions or disapproval, stating its reasons therefor. Failure to respond within



## TOWN OF MILLVILLE

MASSACHUSETTS 01529

Longfellow Municipal Center  
8 Central Street  
Fax (508) 883-2994

## *Criterion 2*

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### *Expedited Permitting Options*

*Re: Millville Annual Town Meeting May14, 2012*

### *Letter from Brackett & Lucas, Millville Town Counsel*

*Affirming that after review, “nothing within Millville’s rules and regulations precludes the issuance of a permitting decision within one year”.*

*Enclosed are copies of Article X and Article XI of Millville’s Bylaws and Planning Boards Regulations.*

**BRACKETT & LUCAS**

**COUNSELORS AT LAW**

500 WASHINGTON  
WILMINGTON, MASSACHUSETTS 01979  
508-799-9739  
FAX 508-799-9799

Gardner S. Mize

gsmize@brackettlucas.com

December 9, 2013

Mark Sylvia, Commissioner  
Massachusetts Department of Energy Resources  
100 Cambridge Street, Suite 1020  
Boston, MA 02110-1315

RE: Town of Millville, Massachusetts  
Green Communities Act

Commissioner Sylvia:

I serve as Town Counsel for the Town of Millville ("Millville"). In that capacity I have been asked by Joe Laydon, Town Planner for the Town of Millville, to prepare this letter in support of the designation of Millville as a Green Community pursuant to Criterion 2 of the Green Communities Expedited Permitting Criteria published by the Massachusetts Department of Energy Resources. I understand that, in order to comply with Criterion 2, the Town of Millville must:

"...have rules and regulations in place governing permit issuance such that all local permitting decisions - formal determinations, orders of conditions, licenses, certificates, authorizations, registrations, plan approvals, or other approvals or determinations with respect to the use, development or redevelopment of land, buildings, or structures required by any issuing authority - applicable to the siting and construction of clean energy facilities within the relevant zoning district(s) can be issued within 1 year of submission of a completed application."

In support of the designation of Millville as a Green Community, I offer the following:

1. At the Annual Town Meeting held on May 14, 2012, Millville voted to amend the Millville Zoning Bylaws ("Bylaws") by adopting Article X, titled "Site Plan Review", and Article XI, titled "Renewable Energy Overlay District". Article XI applies to "large scale ground-mounted solar photovoltaic installations," and to "physical modifications that materially alter the type, configuration, or size of any such installations or related equipment." Article XI, s. 5 requires all "clean energy facilities" applications to undergo a site plan approval ("SPA") as outlined in Article X.





# TOWN OF MILLVILLE

MASSACHUSETTS 01529

Longfellow Municipal Center  
8 Central Street  
Fax (508) 883-2994

## *Criterion 3*

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### *Energy Use Baseline & Energy Reduction Plan (ERP)*

## TOWN OF MILLVILLE ENERGY REDUCTION ACTION PLAN

### I. PURPOSE AND ACKNOWLEDGEMENTS

This Energy Reduction Plan (ERP) outlines the efficiency measures that are proposed to be implemented to reduce costs and environmental impacts of municipal energy use in the Town of Millville. The ERP was prepared in accordance with the Massachusetts Green Communities Grant Program Criteria 3.

#### A. Letters from Both General Government and School District Verifying Adoption of the ERP

- **General Government** – Please see attached documents A letter of approval of this ERP by the Board of Selectmen is attached to this plan in Appendix A.
- **Regional School Districts** – The Town of Millville is part of the Blackstone-Millville Regional School District. The Millville Elementary School is included in this Energy Reduction Plan; however the Blackstone-Millville Middle and High School are not due to their location within the adjacent Town of Blackstone and are owned by the Blackstone-Millville School District. Please see attached document regarding Millville Elementary School found in Appendix A.

#### B. List of Contributors that Participated in the Baseline and ERP Process

- Les Davis, Millville Green Committee Energy, Chairman
- Joseph G. Rapoza, Millville Green Energy Committee & Board of Selectman, Vice Chairman
- Gerald Finn, Millville Green Energy Committee, Secretary
- Joseph Laydon, Millville Green Energy Committee, Town Planner
- Helen Coffin, Millville Executive Secretary
- Ron Landry, Millville Green Energy Committee, Millville Police Chief and Fire Chief
- Trish Bonoit, Millville Green Energy Committee, Public Safety Clerk

### A. EXECUTIVE SUMMARY

**A. Narrative Summary of the Town of Millville** –including population and any special school accreditations, Energy Star™ ratings, EPA Community Energy Challenge participant, ICCI community, etc.

The Town of Millville is the second youngest town in Massachusetts, situated in southern Worcester County and bounds Rhode Island to the south. It lies in the Blackstone Valley, which is a designated National Historic Corridor, and is known as the birthplace of the American Industrial Revolution. Millville, as its name indicates, was a small mill village, formally part of Mendon and Blackstone to the east, and home to several manufacturing shops, including U.S. Rubber Company.

the Blackstone River Valley National Heritage Corridor runs through Millville, Millville, along which are the remains of the Millville Locks on the canal, built in 1927 by laborers who had previously worked on the Erie Canal. With the planned completion of the Blackstone River

September 16, 2014

Meg Lusardi, Acting Commissioner  
Green Communities Division  
Department of Energy Resources  
100 Cambridge Street, Suite 1020  
Boston, MA 02109

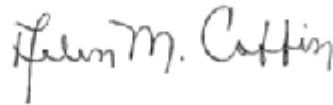
Re: Green Community Designation – Energy Use and Reduction Plan

Dear Ms. Lusardi:

At a public Board of Selectmen meeting duly posted and held on September 15, 2014, the Board of Selectmen voted to adopt the attached Energy Use and Reduction Plan for the Town of Millville.

Should you require any additional information, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Helen M. Coffin".

Helen M. Coffin  
Executive Secretary

cc: Green Energy Committee



TOWN OF MILLVILLE  
MASSACHUSETTS 01529

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## *Criterion 4*

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### *Fuel Efficient Vehicles*

#### *Fuel Efficient Plan and Vehicle Replacement Plan*

*Adopted by Millville Board of Selectmen August 5, 2013*

*Copy of letter to DOER dated August 8, 2013 is included with a copy of Millville's current Vehicle Inventory.*



**TOWN OF MILLVILLE**  
MASSACHUSETTS 01529

Longfellow Municipal Center  
6 Central Street  
Tel: 508-855-1136  
Fax: 508-855-2994

Executive Secretary

August 8, 2013

MA Department of Energy Resources  
Green Communities Division  
100 Cambridge Street – Suite 1040  
Boston, MA 02114

Re: Fuel Efficient Vehicle Policy and Vehicle Replacement Plan

Dear Sir or Madam:

Please be advised that at a public meeting of the Millville Board of Selectmen held on August 5, 2013, the Board of Selectmen voted in the affirmative to adopt a Fuel Efficient Vehicle Policy and Vehicle Replacement Plan. Enclosed are copies of the documents as well as certification of the vote.

Please let me know if you require any additional information as the Town of Millville moves towards obtaining green community status. Thank you.

Sincerely,

  
Helen M. Coffin  
Executive Secretary

Enclosures

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# TOWN OF MILLVILLE

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## *Criterion 5*

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### *Stretch Code Adoption*

*Stretch Code Adopted at Annual Town Meeting May 14, 2012*  
*Certification by Millville Town Clerk May 1, 2013*

**TOWN OF MILLVILLE  
RESULTS OF ANNUAL TOWN MEETING  
MONDAY, MAY 14, 2012 – 7:00 P.M.**

The Annual Town Meeting was called to order at 7:01 pm by Moderator Leslie Davis who had already declared a quorum at the Special Town Meeting at 6:35 for the Special Town Meeting. There were 103 registered voters present and voting at the start of the Meeting.

**FINANCIAL ARTICLES**

**ARTICLE 1: MONETARY INCREASES.** To see if the Town will vote to authorize that any motion or amendment to increase any monetary articles or line items as proposed by the Finance Committee, presented at this Town Meeting, shall be Out of Order unless such motion, or amendment states the source of funding as being from available free cash, or the line item, or article that will be reduced by the same amount; or take any other action in relation thereto.  
*Submitted by: Finance Committee*

*Upon a motion duly made and seconded, it was voted that the Town vote to approve the Article as written. The Finance Committee recommended the Article.*

**APPROVED BY A UNANIMOUS VOICE VOTE**

**ARTICLE 2: FISCAL YEAR 2012 – SALARY BUDGET ADJUSTMENTS.** To see if the Town will vote to transfer from any available funds the sum of **Two Thousand Nine Hundred Sixty-five Dollars (\$2,965.00)** to supplement the following departmental budgets within the Fiscal Year 2012 Town Budget approved under Article 7 of the Annual Town Meeting Warrant on May 9, 2011, or take any other action in relation thereto. *Submitted by: Board of Selectmen*

<u>Department</u>	<u>Line Item</u>	<u>Account Number</u>	<u>Adjustment Amount</u>
Executive Secretary	Clerical/Receptionist	0001-123-5112-01	\$ 210.00
Assessors	Assessor-Clerical	0001-141-5113-01	\$ 235.00
Treasurer/Collector	Treasurer Salary	0001-145-5113-00	\$ 535.00
Treasurer/Collector	Assistant Collector	0001-145-5113-02	\$ 165.00
Police	Chief Salary	0001-210-5111-00	\$1,300.00
Communications	Full-Time Clerk	0001-299-5112-00	<u>\$ 520.00</u>
			<b>\$2,965.00</b>

*A motion was duly made and seconded to transfer the amount of Two Thousand Nine Hundred Sixty-five Dollars (\$2,965.00) from Free Cash to fund this Article.*

*About a half hour of discussion and comments on this Article was heard by the assembly. The Finance Committee did NOT recommend this Article. The Article was defeated.*

**DEFEATED BY A MAJORITY VOICE VOTE**

A TRUE COPY ATTEST:

*Marian J. Lenette*

TOWN CLERK OF MILLVILLE

