GREEN COMMUNITY ANNUAL REPORT

1) In order for a municipality to maintain its Green Community Designation and be eligible for the next available Green Communities funding opportunity, reports must be submitted no later than 5:00 PM December 11, 2017 for the reporting period July 1, 2016 – June 30, 2017

Late reports WILL deem a community ineligible for Spring 2018 Competitive Grant.

- 2) Please be certain to address all areas in full. If certain requested information does not apply, then please note it as "N/A."
- 3) Please follow the instruction for reporting on each Criteria on the individual Criterion Excel Sheets.
- 4) If you have any questions on these reporting requirements, please contact your DOER Green Communities Regional Coordinator (RC). The objective is to have a dialogue with Green Communities staff **BEFORE** the report is due so that minimal follow-up with the municipality is required after the due date.
- 5) Print, fill out completely, and submit a signed copy of this page of the completed annual report as a PDF via the online system.
- 6) Submit your community's full Excel file electronically as Excel to Jane Pfister at **jane.pfister@state.ma.us** with any other supporting files. This page must be signed, made into a PDF, and submitted as a separate file.Please submit only one Excel file for the annual report. DOER will not accept multiple spreadsheets.
- 7) NOTE: In the case of any criteria violations(e.g. a vehicle purchased that does not meet the fuel efficient vehicle policy), the municipality will be asked to provide a corrective action plan. A first-time violation will be factored into consideration when DOER awards funds under the next available Green Communities funding opportunity. A second violation may prohibit the municipality from being eligible for any funds in the next available Green Communities funding opportunity.
- 8) Fields highlighted in yellow should be completed by Green Communities.
- 9) Fields highlighted in green should be pre-populated by the Regional Coordinators

 Date Designated:
 December-14
 PLEASE NOTE: For a municipality designated December 2015, the reporting period is 18 months, Jan 1 2016 - June 30 2017

 Date of Annual Report Submission
 11-Dec-17

 Name of Preparer of Annual Report Title
 Gerald R. Boyle

 Director of Facilities

 Municipality Name
 Belmont

I confirm that I have reviewed this report and verify all information is true.

Signature of Chief
Executive Officer

The Chief Executive Officer is defined as the manager in any city having a manager and in any town having a city form of government, the mayor in any other city, and the board of selectmen in any other town unless some other officer or body is designated to perform the functions of a chief executive officer under the provisions of a local charter or laws having the force of a charter. Any signatures of designees will be considered an attestation that the signatory has been designated the designee by the municipality.

If yes, such the same documentation required for designation for CR1 to verify that you still meet the requirements (applicable sections of the zoning by-way, definitions, as well as a revised zoning map.) Please select YES or NO in the dropdown on the right. 2) Have any significant changes been made to site plan, design, or other development review criteria or any permit review procedures that would impact he ability to permit qualifying dean energy uses as-of-right and in a timely manner? Significant changes would be anything that pertains to the "by-right" taster of the zoning or the amount of time necessary provise mappers any potential impact on the siting of clean energy projects, and affirms Pyss, statistical a latter from muricipal courses that describes the changes, distantses any potential impact on the siting of clean energy projects, and affirms Pysss. select YES or NO in the dropdown on the right. If YES, oppian what has happened since the community applied for, and neceived, Green Oromunities designation been reduced? Please select YES or NO in the dropdown on the right. If YES, oppian what has happened since the community applied for, and neceived, Green Oromunities designation and describe any plans the community may have to make such development feasible again. NO NORARRATIVE: PERMITTING:											
Proper of expedited permitting approval received: Second Communities Properties Properties Properties Properties	Criteria 1 an	d 2									
REGULATIONS (zoning a permitting): 1) Have any significant changes been made to the zoning district(s) for which the community received Green Communities designation? Significant changes but the geographic center of the district, allowed uses, and dimensional requirements, would impact the ability to construct a horizones. If yes, submit the same documentation required for designation for CR1 to verify that you still meet the requirements, despite sections of the zoning by-way, definitions, as well as a revised zoning map.) Please select NES or NO in the depotement on the right. If yes, submit the term of the zoning or to the amount of time necessary to review required permits. Please select NES or NO in the depotement on the right. NO NO NO NO NO NO NO NO NO N			proval received	:		R&D	1				
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	right-click, and select "Insert."										

Click here to return to Table 1

	Table 1: SAMPLE Expedited Permitting Projects									
PROJECT R	Type (Generation (Capacity), R&D, and/or lanufacturing)	As-of-right designated location	Applicant	Project Description	Permit(s) (use as many rows as required)	Status	Date Submitted	Decision Date	Other Pertinent Information	
	enewable nergy (wind) MW	landfill	Performance		Site Plan Review Wetlands (access road is	Approved Approved	11/1/2010	1/21/2011	Modest design changes to conform to as-of-right bylaw	

Criterion 3 Instructions: Complete Steps 1-7 Below

1. Read and complete all questions below.

2. Complete Table 2: Progress

Please complete Table 2, located 3 tabs to the right. ALL categories are required, with the exception of open space

Fuel use from all vehicles, including those characterized as exempt AND non-exempt under Criterion 4, must be included.

Renewable Energy is a fuel source and the amount of renewable energy consumed by the Green Community must be included. Go to Table 2

If you are using MEI. Please note that there is a new report available (entitled Energy Reduction Plan Guidance Table 2). This contains the data you need to enter into Table 2. Please review the data in MEI and, if accurate, enter it into Table 2, located 3 tabs to the right. Note also that if you click on the "years" down arrow on that MEI report, you can choose which year is your baseline year.

3. Complete Table 3: Energy Use (NON-MEI Users)

Go to Table 3

REMEMBER to load all diesel, gasoline, heating oil and propane energy usage, as well as renewable energy usage that is NOT netmetered, into MEI prior to providing a date that your data is complete. Also, confirm that Table 3 in MEI matches the data provided in Table

If your community uses MassEnergyInsight (MEI) to provide data for Table 2, provide the date the information in MassEnergyInsight was last verified. By including a date below, you are **confirming that the information** in **MEI** is accurate and complete (including all fuels and renewable energy) and that you wish to report your Green Community annual energy usage directly through MEI. If your community does not use MEI, please complete "Crit 3 - Tbl 3 Non-MEI User Only."

12/8/2017

WEATHER NORMALIZED DATA - DOER is encouraging Green Communities to assess their progress using weather-normalized data through a DOERapproved weather normalization methodology. Qualifying methods include use of MassEnergyInsight or Energy Star Portfolio Manager. Please contact your Regional Coordinator for assistance if you use a different energy-tracking tool.

Enter weather-normalized total energy consumption for each year of your ERP in Table 2, Row 17. In MassEnergyInsight, this information is available in the "Annual Report Table 2" report.

To include a percentage of the energy use of a Regional School District, please include that prorated usage as a seperate entry in line 15 of Table 2: Enter here the % you are using to prorate the energy usage (i.e. the percentage of the RSD funding that the municipality contributes)

% of RSD

4. Complete Table 4: Energy Conservation Measures (ECMs)

Go to Table 4

Update your ECMs in Table 4 by: 1) changing the status and status date for any ECMs already included, 2) adding any new ECMs, 3) and providing an ECM type in Column F.

If your community uses an Energy Management Services (EMS) Agreement, your EMS annual report may be used to fulfill your Green Communities Annual Report Table 4 requirement. Please provide the date it was filed with DOER, or the date it will be filed if filing is anticipated in the next six months. Other efficiency measures undertaken independently of the performance contract should be reported using Table 4. All other portions of the Green Communities Annual Report must be completed.

DATE:

5. Complete Table 5: Renewable Energy Projects

Go to Table 5

Update your RE projects in Table 5 by: 1) changing any status dates, 2) adding, in bold, any new RE projects, and 3) drawing a line through any RE projects that have been abandoned.

Does your Green Community use any energy produced by renewable energy within your community? For example, solar PV systems installed on school or municipal buildings, RE PPAs in which the town buys the electricity, or renewable thermal. Please select YES or NO in the dropdown on the right. if YES, complete Table 5.

NO

6. Provide a Narrative

Provide a brief narrative explaining changes seen and what is anticipated for the next year. Any notes on successes or challenges are welcome.

Sample Narrative: Our buildings have a 12 percent decrease in energy use and the vehicles have a 4 percent reduction. We have implemented projects in the Town Hall and would have expected larger savings. We are investigating this. We are also intending to implement a large retrofit at the drinking water treatment plant this year that should yield a significant level of savings.

NARRATIVE: We have seen reductions in many categories, but continue to question the accuracy of the MEI data. The Town relies on manaul uploding of electrical data from the Belemont Municipal Light Department (BMLD). We suspect there may be gaps in that data over the years. In general, we believe additional effort is needed to make the best use of MEI. Also, the Town has undertaken a number of ECM's outside of the Green Communities grant funding, seeking energy reduction measures as a matter of course in building upgrades. We presume energy reductions from these measures, but do not have the expertise to undertake the calculation to quantify aid reductions. These measures would include the Winn Brook School boiler replacement, upgrades to LED fixtures at the High School Field House, and HVAC improvements at the DPW garage. Although not reported with the Vehicle Inventory, the Town is making use of a DEP grant to lease two electric vehicles for there years.

7. Building Stock Changes

Please describe any building stock changes that have occurred since your GC baseline year. Include the year and whether any changes are a replacement, addition, removal or renovation. The adjustments to energy usage should be entered on Table 2, Line 14. (you may use the Building Stock Changes Calculator herein).

IARRATIVE: N/A.		

Guidance for Reporting Building Stock Changes in Annual Report

For changes in building stock (including additions, new construction, demolition, replacement or acquisition), PLEASE CONSULT WITH DOER TO DETERMINE THE PROPER TREATMENT OF THEIR ENERGY USE IN THE FUTURE ANNUAL REPORTS. In general, the guidance provided in the table below will be followed. However, due to the unique nature of many building projects, a community should consult with DOER regarding building stock changes prior to submission of its Green Communities Annual Report. Please contact your Regional Coordinator to initiate this conversation.

Building Stock Changes Summary Guidance

	New or Altered Building Energy Included in Energy Consumption vs. Baseline?	How to Report?
Retrofit/Renovation	Yes	Annual report
Addition	Yes, pro-rated by square footage	Annual report
New Construction	No	Separate monitoring
Removal/Demolition	Up to community's discretion	Annual report
Replacement of an Existing Building	Yes	Annual report
Acquisition of an Existing Building	Only if desired	Separate monitoring or add to baseline in annual report

- Retrofit/Renovations: Retrofits and Renovations will be factored into the 20% reduction and do not alter the energy use baseline. These do not increase building square footage and renovations should be done such that the renovated space becomes more efficient.
- Additions: The energy load for a building and its addition will be counted towards the 20% reduction target but will be pro-rated based on the "new" building square footage. For example, if a 10,000 sq. foot building added 5,000 sq. feet (an additional 33.33%), then 66.67% of the energy usage for the building would be accounted for in monitoring the community's progress towards meeting its 20% energy reduction target.

Sample Building from Energy Baseline	
size (sq ft)	10,000
plus addition	5,000
TOTAL new building size	15,000
% Prorated energy use = (10,000/15,000) x 100	66.67%
Total Electric Energy Use (kWH)	2,500
Prorated Energy use (1,250,000 x 0.66)	1,666.67

Report this in Annual Report

- New Construction: The additional energy load from these buildings will NOT be added into the energy use baseline and therefore the additional load will NOT be factored into the 20% reduction target. Municipalities using MassEnergyInsight should flag the building to "exclude from baseline."
 However, a municipality will be expected to monitor the performance of this building, using MassEnergyInsight or another tool, under its annual Green Communities reporting to verify that it is performing as designed and modeled.
- **Removal/Demolition:** For buildings that are removed from the building stock, the community has the option to adjust the energy use baseline by subtracting that building's energy use and revising the 20% reduction target accordingly. This will occur <u>ONLY</u> for buildings that are <u>not</u> replaced by a new building or leased space (see below).
- Replacement of an Existing Building: For buildings originally included in the baseline that go offline and are replaced by a new building, the energy use
 baseline will not change and the new building will be included in the 20% reduction target. If the new building is larger than the replaced building, then
 the energy use will be pro-rated according to the difference in their square footages. For example, if a 25,000 sq foot building was replaced with a
 50,000 sq feet (an additional 50%), then 50% of the energy bills for the building would be accounted for in monitoring the community's progress
 towards meeting its 20% energy reduction target.

Sample Building from Energy Baseline	
original size (sq ft)	25,000
Size of new building	50,000
% Prorated energy use = (25,000/50,000) x 100	50%
Total Energy Use (MMBTU)	13,000
Prorated Energy use (1,500,000 x 0.50)	6,500

Report this in Annual Report

- Acquisition of an Existing Building: If a municipality acquires an old building (i.e., not new construction) after the baseline year, and that building is not
 replacing a building already included in the baseline, the additional load from such a building will not be required to be included in the consumption
 profile and therefore the additional load will not be factored into the 20% reduction target. HOWEVER, one of the following two should occur:
 - o The municipality should address these buildings separately in its Annual Report, noting what their baseline energy use was when they were acquired and what measures are planned for their improved energy performance.
 - o As an alternative, if a municipality so chooses, it can add the load from these buildings into the energy use baseline when they were acquired and include them in the 20% reduction target. (A municipality may choose to do this because it may provide a better opportunity for them to achieve the 20% reduction target). A municipality choosing to do this must provide an explanation in its Annual Report.
- Petition to Modify Energy Use Baseline: At any time, a municipality can petition DOER to consider modification of its baseline. For example, a municipality may replace an existing smaller school with a new school that is significantly larger, with a pool added, etc, and it may wish to adjust its baseline to take this added square footage and energy use data into consideration. DOER reserves the right to approve or deny any such petition.

INSTRUCTIONS on how to calculate your prorated energy use for building stock changes. Please keep track of the prorated use for every year (Foar One is the first year following your seasine year). If you had a rew building that replaced on to building in your beatine, Use seasine year. If you had a rew building with the replaced with or building in your beatine, Use that you need to account for, scroll down and use Calculator 2 - Building Additions Worksheet had you need to account for, scroll down and use Calculator 2 - Building Additions Worksheet had you had been a season to be a season of the property of the the highlighted totals in Calculator 3 - Prorated Energy Use and Input them into the appropriate year in the 'Building Stot had been season to the property of the propert

Calculator 1 - New Buildings	Replacing Old	Buildings Wo	rksheet
	Sq footage	BuildingEnergy Use (MBTU)*	Prorated energy use (MMBTU)
fear One BUILDING ONE			
Old Building New Building		N/A	0.
BUILDING TWO		N/A	
Old Building New Building		Nin	0
BUILDING THREE Did Building		N/A	+
New Building Fear Two			
BUILDING ONE		N/A	
Old Building New Building		N/A	0
BUILDING TWO Old Building		N/A	+
New Building BUILDING THREE			0
Old Building		N/A	
New Building fear Three			
BUILDING ONE Old Building		N/A	+
New Building			0
BUILDING TWO Did Building		N/A	+
New Building BUILDING THREE		-	0
Old Building New Building		N/A	
fear Four			
BUILDING ONE Did Building		N/A	+
Old Building New Building BUILDING TWO			0
Old Building		N/A	
New Building BUILDING THREE			0
Old Building New Building		N/A	
fear Five BUILDING ONE			
Old Building		N/A	
New Building BUILDING TWO			
Old Building New Building		N/A	0
BUILDING THREE Old Building		N/A	
New Building Year Six			
BUILDING ONE Did Building		N/A	
New Building BUILDING TWO		Nix	0
Old Building		N/A	
New Building BUILDING THREE			0
Old Building New Building		N/A	0
Year Seven BUILDING ONE			
Old Building New Building		N/A	0
BUILDING TWO		N/A	_ '
Old Building New Building		NiA	0
BUILDING THREE Old Building		N/A	
New Building Fear Eight			0
BUILDING ONE Did Building		N/A	1
New Building BUILDING TWO			0
Old Building		N/A	
New Building BUILDING THREE			0
Old Building New Building		N/A	
fear Nine BUILDING ONE			1
Old Building New Building		N/A	0
BUILDING TWO Old Building		N/A	
New Building		NIIS	0
BUILDING THREE Did Building New Building		N/A	+
fear Ten			C
BUILDING ONE Old Building		N/A	1
New Building			
Old Building		N/A	
New Building			0

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Calculator 2 - Building Addition	ns worksheet					
				FY17 total		
	Pre-addition sq. ft	Post-addition sq. ft.	%to include	energy use (MMBTU)	How many months was the addition online during the reporting FY?	Prorated energy use (MMBTU)
Year One						
Building One			0.00%			0.00
Building Two			0.00%			0.00
Building Three			0.00%			0.00
Building Four			0.00%			0.00
Year Two						
Building One			0.00%			0.00
Building Two			0.00%	1		0.00
Building Three			0.00%			0.00
Building Four			0.00%			0.00
Year Three						
Building One			0.00%			0.00
Building Two			0.00%			0.00
Building Three			0.00%			0.00
Building Four			0.00%			0.00
Year Four		i	0.001			-
Building One			0.00%			0.00
Building Two			0.00%			0.00
Building Three			0.00%			0.00
Building Four			0.00%			0.00
Year Five			0.00%			0.00
Building One			0.00%			0.00
Building Two	_		0.00%	-		0.00
Building Three	_		0.00%	-		0.00
Building Four			0.00%			0.00
Year Six			0.00%			0.00
Building One			0.00%			0.00
Building Two			0.00%			0.00
Building Three			0.00%			0.00
Building Four			0.00%			0.00
Year Seven				<u> </u>		
Building One			0.00%			0.00
Building Two			0.00%			0.00
Building Three			0.00%			0.00
Building Four			0.00%			0.00
Year Eight						
Building One	1	1	0.00%		1	0.00
Building Two			0.00%			0.00
Building Three			0.00%			0.00
Building Four			0.00%	T		0.00
Year Nine						
Building One	1	1	0.00%	T		0.00
Building Two			0.00%			0.00
Building Three			0.00%			0.00
Building Four			0.00%			0.00
Year Ten						
Building One			0.00%			0.00
Building Two			0.00%			0.00
Building Three	1		0.00%			0.00

Criterion 3 Step 2: Complete Table	2 - Progress										
		Та	ble 2: Time	line of Annua	ıl Municipa	I Energy U	se				
	Baseline MMBtu	Year 1 MMBtu	Year 2 MMBtu	Year 3 MMBtu	Year 4 MMBtu	Year 5 MMBtu	Year 6 MMBtu	Year 7 MMBtu	Year 8 MMBtu	Year 9 MMBtu	For Most Rec Year: Chang vs. Baseline
Note Fiscal or Calendar Year	FY 2014	FY 2015	FY 2016	FY 2017							
Null											#DIV/0!
Buildings	74,434	69,436	69,454	69,518							6
Open Space	185	218	201	184							С
Street & Traffic Lights	4,260	0	0	366							91
Vehicles	8,625	3,973	10,302	7,733							10
Water/Sewer											#DIV/0!
Building Stock Change Adjustment											#DIV/0!
Regional School Prorated											#DIV/0!
TOTAL ENERGY CONSUMPTION (NO Weather Normalization)	87,504	73,627	79,957	77,801	0	0	0	0	0	0	11
TOTAL ENERGY CONSUMPTION (Weather-Normalized)											#DIV/0!

		NO	OTE: IF	USING	G MAS	SENER	GYINSI	GHT, t	here is	NO no	eed to	comple	ete this	table.				
				Tabl	e 3: Annı	ıal Munic	ipal Energ	y Use in	Native U	Inits and	MMBtu -	Plan Yea	ır					
							Plea	se enter	"0" for a	ny fuels	not used							
		Electrici	ty	Natui	ral Gas	#2 Distill	ate Fuel Oil	Prop	ane	Gas	oline	Die	esel	Electric Renewable Energy		Thermal Renewable Energy		
	kWh		MMBtu	Therms	MMBtu	Gallons	MMBtu	Gallons	MMBtu	Gallons	MMBtu	Gallons	MMBtu	kWh	MMBtu	Therms	MMBtu	Total MMBtu
School			0		0		0		0		0		0		0		0	0
Town Hall			0		0		0		0		0		0		0		0	0
Police Station			0		0	0	0		0		0		0		0		0	0
SUBTOTAL FOR BUILDINGS		0	0	0	0	0	0	C	0	0	0	0	0	0	0	0	0	0
Drinking Water/Wastewater Treatment Plant			0		0		0		0		0		0		0		0	0
Pumping in Aggregate			0		0		0		0		0		0		0		0	0
Open Space*			0		0		0		0		0		0		0		0	0
Vehicles in Aggregate			0		0		0	C	0		0		0		0		0	0
Street and Traffic Lights in Aggregate			0		0		0		0		0		0		0		0	0
TOTAL ENERGY CONSUMPTION		0	0	0	0	0	0	C	0	0	0	0	0	0	0	0	0	0

For use in next Table 4 - ECMs Project Type Definition/Includes:

Behav & Training	Behavioral programs, building operator training, etc.
Building Control	HVAC controls, energy management systems (NO vending misers)
Exterior Lighting	Streetlights, traffic lights, parking lots/garages, exterior lighting
Interior Lighting	Interior lighting & controls
Fuel Conversion	Conversion from one heating fuel type to another (often oil to natural gas)
Hot Water	Hot water heaters, pipe insulation, showerheads, faucet aerators, efficient dish washers
HVAC	Heating or cooling equipment, economizers, destratification fans, dehumidifiers, duct
Pump/Motor/Drive	Pumps, motors, variable frequency/speed drives
Refrigeration	Refrigeration and controls, including vending misers
Retrocommission	Retrocommissioning and submetering projects
Vehicles	Energy-savings vehicles & their operations: GPS, anti-idling retrofits, routing software,
Weatherization	Insulation, air-sealing, windows, etc.
Comprehensive	Large-scale retrofit of the entire building or multiple systems. Examples: building
	renovations, lighting + HVAC + EMS
Other	Use this only if types above do not fit

Status Type Definition/Includes:

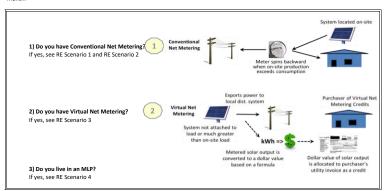
Complete	Project is complete & operational.
Active	Project is actively underway - procurement completed and in any stage of construction.
Planned	Identified project that will be pursued; may be in budgeting or procurement.
Abandoned	Project is not completed and will no longer be pursued.

Criterion 3 Step 4: Complete Table 4 - ECMs Table 4 Energy Conservation Measures Data Click here to view a sample version of this table ECMs Financial Data Reference Data Projected Annual Propane Savings (gallons) Projected Annual Electricity Savings (kWh) Projected Annual Gasoline Savings (gallons) Projected Annual Projected Annual Oil Savings (gallons) Status Date Annual Diesel Green Community Grant (\$) Status (select Projected Annual Cost Funding ergy Conservatio Measure Name (Month -year completed or ECM Type (select on Utility Building/Site Name Natural Gas Savings (therms) Installed Cost (\$) Net Cost (\$) ource(s) fo Net Costs from drop-down) Savings down) Savings (gallons) Savings (\$) planned) 137,17 8,33 \$44,874 \$30,000 ctive FY1 \$30,00 N/A nont HS Energy Mgmt. System Building Control 6/1/201 57,696 6,956 \$17,622 \$74,409 \$66,000 \$2,400 \$6,009 Town Operating Variable Frequency Drive Motors Pump/Motor/Drive 45,00 \$5,717 \$45,733 \$45,73 TBD nont HS Interior Lighting
Electronically
Commutated Motors Interior Lighting Planned TBD 309,108 TBD Building Control lanned TRD 10.00 \$1.27 \$6,352 \$6.3 TRD Lighting Control Interior Lighting
Vending Misers Refrigeration Planned \$2,0 FY15 87,782 8,029 \$19,783 \$20,000 \$20,000 \$8,029 -\$8,02 N/A throp L Chenery MS Retro-Commissioning Retrocommission Active nthrop L Chenery MS Energy Mgmt. System Building Control 6/1/2016 43,202 9,388 \$17,066 \$98,149 \$85,850 \$9,600 \$2,69 Town Operating Variable Frequency Drive Motors nthrop L Chenery MS Pump/Motor/Drive TBD 30,000 \$4,017 \$32,138 \$32,138 TBD TBD inthrop L Chenery MS Hot Water Planned Building Envelope TBD lanned TBD 1,00 \$1,000 \$10.00 \$1,000 \$9.0 TBD nthrop L Chenery MS nthrop L Chenery MS Planned Interior Lighting Planned iel Butler ES Retro-Commissioning Retrocommission Planned FY15 15 036 2,94 \$5,549 \$10,000 \$10,000 \$2 944 -\$2,94 N/A Boiler Replacement HVAC
Burner Controls Building Control \$4,790 \$99,981 \$92,499 4,193 Variable Frequency Drive Motors Pump/Motor/Drive TBD 7,500 \$1,304 \$10,429 \$10,42 TBD niel Butler ES lanned Interior Lighting Interior Lighting
Lighting Control Interior Lighting TBD TBD lanned Refrigeration niel Butler ES Vending Misers Active FY15 \$1,000 n Brook ES Retro-Commissioning Retrocommission FY15 22,116 2,666 \$6,099 \$10,000 \$10,00 \$2,666 -\$2,66 N/A Piping Insulation Hot Water
Burner Controls Building Control
AHU replacement HVAC
Variable Frequency
Drive Motors
Pump/Motor/Drive nn Brook ES Planned -\$1,7 23,00 n Brook ES Planned n Brook ES 12,500 \$1,782 \$14,258 \$14,25 TBD lanned n Brook ES Interior Lighting lanned 49.83 \$46,18 n Brook ES Planned TBD \$1.64 \$10,658 TBD ary Lee Burbank E Retro-Commissioning Retrocommission lanned TBD 17.500 2.42 \$4.96 \$10,000 \$2,428 \$7,5 TBD ary Lee Burbank ES HVAC lanned TBD 1,000 \$1,001 \$10,000 \$1,000 \$9,00 TBD Air Handling Unit ary Lee Burhank ES HVAC TBD \$878 TBD TBD Planned 6.067 Boiler Replacement HVAC
Burner Controls Building Control
Piping Insulation Hot Water ary Lee Burbank ES \$7,347 \$4,987 \$99,999 \$16,508 \$92,48° \$16,50 TBD TBD ary Lee Burbank ES ary Lee Burbank ES Planned 39,432 9,100 \$37,112 \$37,1 TBD \$8.56 Weatherization Interior Lighting Interior Lighting Boiler Replacement HVAC Burner Controls
AC Condensers
Replacement
Variable Frequency
Drive Motors in Library Building Control Planned TBD HVAC in Library Planned TBD 2.247 TBD in Library Pump/Motor/Drive TBD 21,000 \$3,080 \$24,643 \$24,643 TBD ain Library Building Envelope Weatherization Planned TRD \$15,306 \$15.30 Planned \$41.0 Building Control Pump/Motor/Drive TBD 17.00 \$2,559 \$20,472 \$20,472 TBD TBD TBD \$5,047 \$27,670 5,158 29,999 Lighting Control Interior Lighting Planned mer Municipal Building nterior Lighting Interior Lighting Planned Lighting Control Interior Lighting
Steam Traps Repairs
Boiler Replacement
HVAC
Interior Lighting \$8,30 \$2,500 anned Interior Lighting Pump/Motor/Drive TBD \$3,461 \$27.68 TBD ip Vigliriolo Skating Rink lanned 25,000 \$27,687 hool Administration Building Retro-Commissioning Retrocommission Nannad TBD TBD TBD hool Administration Building Interior Lighting Interior Lighting Interior Lighting Planned 4,679 9,358 \$1,272 \$10,000 \$12,122 \$300 \$9,701 \$12,122 Lighting Control ool Administration Building Planned Interior Lighting lanned \$3,6 Interior Lighting IVAC anned TBD 6,33 \$1,085 \$7,053 \$7,0 TBD TBD lanned Boiler Replacement HVAC ont HS Field House terior Lighting omplete Jul-17 \$1,763 \$62,436 \$122,117 \$48,512 is row, right-click, and select TOTAL Projected Savings 113,851 245.946 TOTAL MMBtu SAVINGS 4.895 1774.5485 2313.5325

	Click here to return	n to Table 4			s	SAMPLE Energy	Table 4 Conservation Mea	sures Data										
	ECMs			Stat	tus	Energy Data					Financial Data				Reference Dat	a		
Category	Building/Site Name	Energy Conservation Measure Name	ECM Type (select one from drop-down)	Status (select one from drop-down)	Status Date (Month -year completed or planned)	Projected Annual Electricity Savings (kWh)	Projected Annual Natural Gas Savings (therms)	Projected Annual Oil Savings (gallons)	Projected Annual Propane Savings (gallons)	Projected Annual Gasoline Savings (gallons)	Projected Annual Diesel Savings (gallons)	Projected Annual Cost Savings (\$)	Total Installed Cost (\$)	Green Community Grant (\$)	Utility Incentives (\$)	Net Cost (\$)	Funding Source(s) for Net Costs	Source for Projected Savings
Buildings	Green School	Lighting Retrofit	Interior Lighting	Complete	Feb-11	95,252	0	0	0	0	0	\$8,000	\$25,000	\$0	\$12,500	\$12,500	Town Capital Plan FY2011	http://www.energystar.go v/ia/business/downloads/ BP_Checklist.pdf
Buildings	Town Hall	Air Sealing	Weatherization	Active	Dec-14	0	230	0	0	0	0	\$1,100	\$3,500	\$1,750	\$1,750	\$0	N/A	A-Z Energy Audit, 2008
Buildings	Town Hall	New Boiler	HVAC	Planned	Nov-17	0	17,122	0	0	0	0	\$5,000	\$50,000	\$35,000	\$15,000	\$0	N/A	Boilers-to-Go Quote, 2009
Street Lights		LED Conversion	Exterior Lighting	Active	Jan-15	6,000	0	0	0	0	0	\$2,500	\$5,000	\$0	\$2,500	\$2,500	Town Operating Budget FY2011	LED Signals Today Quote, 2009
Buildings	Drinking Water Treatment Plant	2 Variable Speed Drives	Pump/Motor/Drive	Complete	Nov-16	500,000	0	0	0	0	0	\$40,000	\$200,000	\$0	\$100,000	\$100,000	Town Bond FY2016	Energy Masters Technical Study, 2010
Vehicles		Anti-idling retrofit for 2 police cruisers	Vehicles	Planned	Aug-18	0	0	400	400	400	400	\$4,500	\$6,000	\$0	\$0	\$6,000	Town Operating Budget FY2018	green.autoblog.com
			TOTAL Projected Savings			601,252	17,352	400	400	400	400	\$61,100	\$289,500	\$36,750	\$131,750	\$121,000		
			TOTAL MMBtu SAVINGS	4,662		2,051	2,412	50	50	50	50						-	

GUIDANCE FOR REPORTING RENEWABLE ENERGY GENERATION AS ENERGY CONSUMPTION

The following scenarios apply to renewable energy systems that are interconnected to the electric grid. It is possible that more than one scenario applies to the same renewable energy system; for example, a solar PV system may generate less energy than its building uses in the winter (scenario 1), but generate more energy than its building uses in the summer (scenario 2). Ideally, calculations should be done for each month.



RE Scenario 1: Conventional Net Metering, System Generation < Building Use = Importing Power

If the building uses more electricity than the RE system generates, your electric meter registers postitive. The building is importing power from the electric company. Then a Green Community should add in the amount of RE generation. This means the total building energy use = total kWh on electric bill + kWh generated by RE.

For exampl

Total Grid Electricity on electric bill (kWh):
Total Net Metering Credits on electric bill (kWh):
Total generated by the RE system (kWh):
Total building use (kWh):

1

Find and Calculate: Find the kWh generated each month from your RE system. Contact your Regional Coordinator if you are having trouble finding the kWh generated each month.

Action: Load the building renewable energy usage into MassEnergyInsight. Create a separate account for each RE system at each building.
Load the RE generation for each month by going to "Upload a Spreadsheet." Choose "solar electric" or "wind power." Upload your usage data.
If not using MassEnervInsight. report to DORF in your Annual Report.

RE Scenario 2: Conventional Net Metering, System Generation > Building Use = Exporting Power

If the RE system generates more electricity than the building uses your electric meter registers negative. The RE system is exporting power to the electric company. Then a Green community should not add in the amount of generation over and above what the building used. This means the total building energy use = kWh generated by RE – kWh credited to electric bill for net metering.

For example

Total Grid Electricity on electric bill (kWh):
Total Net Metering Credits on electric bill (kWh):
Total generated by the RE system (kWh):
Total building use (kWh):



For help locating net metering credits on your electric bill go to:

https://www.nationalgridus.com/non_html/MA_DG_First_Bill.pdf

https://www.eversource.com/Content/ema-e/residential/programs-services/interconnections-net-metering/net-metering-faquity-factories and the services of the

Find and Calculate: Find the total kWh generated each month from your RE system. Find the net metering credits in kWh applied to your electric bill each month. Subtract the net metering credits in kWh from the total RE generated. This is your billiding's NET use of renewable energy generated. Contact your Regional Coordinator if you are having trouble finding the KWh generated and credited each month.

Action: Load the NET building renewable energy usage into MassEnergyinsight. Create a separate account for each RE system for each building. Load the RE generation for each month by going to "Upload a Spreadsheet." Choose "solar electric" or "wind power." Upload your usage data. Or, report to DOER in your Annual Report.

RE Scenario 3: Virtual Net Metering

If a building is virtually net metered, in which the RE system has its own separate meter but the financial credits are applied to a different building, then the actual amount of electricity use of the building will be on its electric bill. For example, a municipality may have built a solar PV array on a closed landfill. The PV system has a meter but does not link to any buildings that no consume a substantial amount of energy. The PV system will be linked to its inverter and perhaps to a small shed or security lights.) The financial value of the electricity that is generated by the landfill solar PV system is applied to an account for electric use at the town hall and to an account of electric bills for the town hall and library thus will show the amount of electricity that is actually used by those buildings, but only charge for the amount of electricity balls sor end beyond what was generated by the solar PV system on the landfill. See DOER's Net Metering page for more details on credits for renewable generation.

Information Needed: Written confirmation of virtual net metering documenting there is a separate meter used for the RE system with only a small load-side usage. The load-side usage should be reported to MassEnergyInsight under Scenario 2 above.

Action: Generation does not impact baseline and should NOT be loaded into MassEnergyInsight. Provide information needed as noted above. Report load-side usage under Scenario 2 above.

RE Scenario 4: RE Generation to Control Rates (for MLPs)

If an MLP uses its RE generation to control its system-wide rates and does not use the RE for a specific municipal building, either directly or through virtual net metering, then the amount of RE generation does not need to be included.

Information Needed: Written confirmation of RE generation for system-wide benefit with no virtual net metering. The load-side usage should be reported to MassEnergyInsight under Scenario 2 above.

Action: Generation does not impact baseline and should NOT be loaded into MassEnergyInsight. Provide information needed as noted above.

Please refer to Guidance on Reporting Renewable Energy Generation and Only Include Projects with Conventional Net Metering (scenario 1 and scenario 2) in Table 5 Criterion 3 Step 5: Complete Table 5 - Renewable Energy

	Project Des	scription		Status a	nd Timing	Electri	city Data		hermal Energy Da resenting consum				Financial Data			Refere	nce Info
Project Name	Resource Type (select from drop down)	Site Type (select from drop down)	Town Procuring Energy Output? (select from drop down)	Project Status (select from drop down)	Year Completed (i.e., 2016)	Size of System (kW, DC)	Annual Electricity Generation (kWh)	Annual Natural Gas (therms)	Annual Wood (cords)	Annual Wood (pellets)	Annual Cost Savings (\$)	Total Installed Cost (\$)	Green Community Grant (\$)	Other Grant (\$)	Net Cost (\$)	Funding Source(s) for Net Costs	Source for Projected Savings
Sample Data - City Hall	Solar PV, Roof	Municipal Building	Y - conventional net metered	Complete	2016	26.5	26,507				\$302	\$439,632	\$0	\$337,500	\$102,132	City Capital Funds	Soltrex online PV systems portfolio dashboard
To insert additional rows, select this row, right-click, and select "Insert."																	
TOTALS							26,507		o	0							
TOTAL RENEWABLE ENERGY PRODUCTION (MMBtu)					90.441884		90.441884		0	0	302	439,632	0	337,500	102,132		•

Criterion 4 - Purchase Fuel Efficient Vehicles	
1) Did you update your vehicle inventory ?	YES
2) Did you install electric vehicle charging stations?	
	YES
Did you implement anti-idling technology and/or campaigns?	YES
t) Did you implement a driving monitoring system that records miles driven and/or fuel consumption?	NO
i) Did you implement a fuel use reporting system for operators on fuel efficiency?	No
s) Any other policies and/or technologies not listed above? Please estimate annual fuel savings from each new technology or puelow. Also please attach any new vehicle policies and technologies adopted by the municipality to this annual report.	olicy in the yellow box
7) For communities that met Criterion 4 through alternative compliance, provide a narrative in the space below of the policies and pradopted to reduce fuel consumption.	ograms that have been
NARRATIVE:n/a	
(b) For communities that met Criterion 4 through alternative compliance, provide as a status regarding the success of these programus as a status regarding the success of these programus as a status regarding the success of these programus as a status regarding the success of these programus as a status regarding the success of these programus as a status regarding the success of these programus as a status regarding the success of these programus as a status regarding the success of these programus as a status regarding the success of these programus as a status regarding the success of these programus as a status regarding the success of these programus as a status regarding the success of these programus as a status regarding the success of th	ms and policies.
8) Have there been any changes to your vehicle inventory since the last annual report?	YES
9) Please provide the most current vehicle inventory that includes ALL vehicles (Both exempt and non-exempt) for ALL department do not report any exempt off-road vehicles, trailers, etc. The inventory submitted with either your most recent Annual Report filing or, if filir with your designation application, is either contained in the next worksheet, "Crit 4 - Table 6 Vehicle Inv.," or provided as separate file. In column L if a vehicle has been acquired since the last annual report, 2) if yes, note what the newly acquired vehicle replaced in the invention column N if the vehicle has been retired. NOTE: For the purposes of the program, municipalities must use the EPA combined fuel econ FuelEconomy,gov and ensure that the rating greater than or equal to the requirement for the relevant vehicle type.	ng for the first time, submitted in the inventory, 1) note in cory in column M, and 3) note

	Facilities - Town Side			Contact 8	Gestin Loone									
	MARIE	MODEL	YEAR	Number:	Purchas ed (MM/YY)	System (2WD/4 WT/4W	>8,500 lbs. 7 (Yes/No)	Exempt (Y/N)	MPG rating	Function	Is this a new acculation?	If new acquisition, what vehicle did it realsos?	Removed from Inventory?	
	Council on Aging:	Sherado 2000	2010	Contact N	dana Nie Vo	eel Drive	Y		14	Maintenance and Mail for Town Buildings				
	MAKE	MOCEL	YEAR	Number:	ed (MM/YY)	System (2WD/4 wmsaw	bs. 7 (Yes/No)	Exempt (Y/N)	MPG rating	Function Handcap Van for Senior Transportation	Is this a new acquisition?	If new acquisition, what vehicle did it replace?	Removed from inventory?	
	Fire Department	Cuban / E-Series Bus	2012	Contact C	05/14 David Frizze	2WD	Ÿ	Ē		"Delder Bus" for Senior Transportation				
Part	MAZ	MODEL	YEAR	Number:	Purchas ed (MM/YY)	System (2WD/4 WD/4W	>0,500 lbs. 7 (Yea/No)	Exempt (Y/N)	MPG rating	Function	Is this a new acquisition?	If new acquisition, what vehicle did it realson?	Removed from inventory?	
Part	FORD FORD FORD	INTERCEPTOR UTILITY EXPLORER EXPEDITION	2013 2017 2015	Car 1 Car 2 Car 3	12/12 03/07 06/15	AWD 4WD	N N N	NE NE E	17-24 12-18 9-14	Trailer to carry boat to emergencies Chiefs Command Car Assistant Chiefs Command Car Shift Commander Response Vehicle				
Part	rono rono	EXPEDITION F150 Pickup	2007	Car 4 Car 5	12/12	4WD 4WD	N N	NE NE	12-16	Fire Presention Staff Car Training / Fire Prevention / Spare Shift Commander Response Vehicle				
Part	EMERGENCY ONE EMERGENCY ONE INTERNATIONAL EMERGENCY ONE	PLAPER TRUCK PLAPER TRUCK PLAPER TRUCK PLAPER TRUCK	2014 2005 2008 2003	Engine 1 Engine 2 Engine 3 Engine 4	01/06 02/08 04/03	2WD 2WD 2WD	¥			Primary Purson Station 2 Primary Purson Station 2 Brush Truck / Secondary Purson Station 2 Back up Purson Station 1				
Part	EMERGENCY ONE EMERGENCY ONE WELLS	LADOER TRUCK LADOER TRUCK UTILITY TRAJLER	2014 1999 2005	Ladder 1 Ladder 1 Light Trails	12/14 11/29 11/05	2WD 2WD NA	Y Y N	-	NA	Primer Ladder Truck Backup Ladder Truck Portable Light Tower				
Part	FORD / HORTON CHEV / HORTON MAGNUM TRAILER	AMBLEANCE AMBLEANCE	2012 2007 2005 1000	Rescue 1 Rescue 2 Tac Trafe Tarv1	06/12 06/07 06/06	AWD 2WD NA AWD	Ť,	-	N/A	Primary Ambulance Secondary Ambulance Technical Rescue Trailer Brush I Hill Allow Trailers / Draw Stations				
Column	Health Department	MODEL	YEAR	Contact 5		Drive System	>0,500 lbs. ?	Exempt	MPG	Function				
Mathematical	Ford CHEV	500 ASTRO VAN	2007 2005	HL-1 HL-2	(MM/YY) 07/10 02/05	AWD AWD	(Yea/No) N	(Y/N) NE	21-25 14-20		is this a new acquisition? No transfer from DPW	If new acquisition, what vehicle did it replace? 2002 Ford Explorer INL-11	Removed from inventory?	
Second	-			Contact &	Aka Santon Purchas	Drive	>0.500							
Series	MAKE	MODEL		Number:		(2WD/4 WD/AW	Ibs. ? (Yes/No)	(1074) Externipt		Function	Is this a new acquisition?	If new acquisition, what yehicle did it replace?	Removed from inventory?	
Series	Sever Pavernater JOB Trough	Trailer P20 Suiter P20 5400B State in Sender E2788	1951 1980 1989	54 77 36	NA NA 06/89	4WD	Y		NA NA NA	Vacant Contains Trailer Contains Vehicle Small Loader Sons Strie In Senter				
Series	Gibeon Tarco Sneco	Trailer Cornert Moor Trailer TT1-4 95W Trailer	1990 1990 1991	60 68 51	12/98 05/00 08/96				NA NA NA	Operations Vehicle Cornent Meer Operations Vehicle Leaf Machine Operations Trailer				
Series	Leroi Bombarder Bombarder	Trailer MSCFM Sciencek Tracker SW48 Schoolsk Tracker SW48	1991 1992 1994 1994	76 26 30	NA 02/25 04/26	AWD AWD	ž.		NA NA NA	Coerations Trailer Coerations Snow Sidewalk Tractor Sone Sidewalk Tractor				
Martin	Ford Chavelet Seeco	Ranger Pick-Lib GMT400 Trailer HM-S16TR	1996 1996 1996	27 53	07/96 08/96 06/96	2WD 2WD	N N	NE NE	15-20 N/A N/A	Operations Vehicle Operations Vehicle Truck Mounted Comp. Operations Trailer				
Column	International Vermeer International	Snowlighter 5000 Trailer Snowlighter	1997 1997 1998	22 25 34	03/92 12/95 11/97	4WD 2WD	Y		NA NA NA	Controls vende Small roser Snoefichter Snoefichter				
Column	Bombarder International John Deene	Sidewalk Tracker SW48 7300 250	1998 2015 1999	40 15 22	02/96 07/16 12/93	AWD 2WD 4WD	Ý		NA 7 NA	Snow Sidewalk Tractor Operations Vehicle Large Dump Track Operations Vehicle Biobcat Machine				
Column	Graco International CAM	Paint Machine Line Laser III Trailer SW510 Trailer Little	1999 1999 2000 2000	58C 58C 58 77	06/99 06/11 06/11				NA NA NA	Coerations Paint Trailer Costations Vehicle Trailer Coerations Trailer				
Column	International Ford International	Showlighter 5500 F450 4300	2001 2002 2002	27 6 26	09/04 07/97 12/90	4WD 4WD 2WD	Y Y Y		NA 9 NA	Snoofichter Maint, Shop Vehicle Operations Vehicle Jet Machine Operations				
Column	Stone Leaco International	Traiter Cornect Moor Side-in 704612 4300	2002 2002 2002 2003	20 57 58 15	07/02 11/96 10/99	2WD	Y	i	NA NA 13-15	Derations Vehicle Cement Miser Desations Trailer Water Wagon Desations Vehicle Lance Durin Traile				
Column	International International Chevrolet	Snowlighter 7300 Snowlighter 7300 Sherrado (500	2004 2005 2006	20	09/06 09/05	2WD 2WD 4WD	Y Y N	E E NE	N/A N/A 10	Snowfighter Snowfighter Operations Vehicle				
Column	Lohn Deere Chevolet Eldin Ford	Sherado Pelican Fusion	2006 2015 2007 2047	23 5 31	07/16 02/07 02/07	4WD Seesper	Y Y	E E	11 NA 23	Specializes Vehicle Front End loader Oberations Vehicle 1 Ton Pickup Operations Vehicle Street Sweeper Administrative Vehicle				
Column	Ford Character Ford	Explorer Traibleaur F-550	2017 2008 2008	2 3 9	07/16 09/07 12/08	4WD 4WD 4WD	N N Y	NE NE E	19 14-20 9	Administrative Vehicle Administrative Vehicle Decrations Vehicle Small Dump Truck				
Column	Chevrolet John Deans International STEPP MFG	Sterado 20040 S44J Snowlighter 7300 Trailer SP100	2014 2008 2008 2009	21 24 25	07/16 08/08 11/07	4WD 4WD 2WD	Ÿ		NA NA NA	Operations Vehicle 1 Ton Pickup Operations Vehicle Front End loader Scool/lighter Operations Not Box				
Column	International HI WAY BIG TEX	7400 Side-in Sander E2020XT Trailer 70PL-14	2009 2009 2009	50 74 75	03/08 NA 07/09	2WD	Y		NA NA NA	Operations Vehicle Vactor Snow Side in Sander Operations Trailer				
Column	International International Etido Emergency Response	7300 7300 Pelican Trailer	2010 2010 2010 2010	16 17 30 44	09/09 12/09 09/10 09/10	2WD 2WD Sweeper	Ÿ		8-10 8-10 NA NA	Operations Vehicle Large Dump Track Operations Vehicle Street Susseper Operations Vehicle Street Susseper				
Column	HE WAY International John Decre	Side-in Sander E2020XT Dump 549K	2010 2012 2012	73 12 25	NA 12/11 09/12	2WD 4WD	Y		NA 8-10 NA	Snow Side in Sander Countions Vehicle Large Dump Truck Countions Vehicle Front End bader				
Column	Portable Generator Chevrolet Chevrolet	Sherado 35004D Sherado 35004D 7000	2012 2013 2013 2013	4 7	11/12 11/12 11/12	4WD 4WD	Ť	-	N/A 14 14 8-50	Operations Emergency Generator Operations Vehicle 1 Ton Pickup Operations Vehicle 1 Ton Pickup Operations Vehicle I som Dum Tourk				
The company	Chevrolet International Chevrolet	Sherado 25004D 7300 Espress	2014 2014 2014	21 14 52	11/33 11/33 01/34	4WD 2WD 2WD	Ť		14 8-10 18-20	Operations Vehicle 1 Ton Pickup Operations Vehicle Large Dump Truck Operations Vehicle Emergency Van	No. It is old #0			
The company	International Graco Ventrac	7300 Painter 200HS Model 3400Y	2016	19 590 42	11/07 N/A 07/17	2WD	Y	-	NA NA	Operations Vehicle Large Dump Truck Operations Paint Machine Operation Sidewalk Tracitor	Yes			
The content	Chevrolet DPW - Water Division	KG500 Pickup	2016	Contact &	Ake Santon	4WD				Coerations Highway	Yes			
The company	MAKE	MODEL	YEAR	Number:	Purchase ed (MM)	Drive System (2WD/4	>8,500 fbs. 7 (Yes/No)	Exempt (1014)	MPG rating	Punsten	Is this a new acceptation?	If new acquisition, what whirle did it renters?	Removed from	
Column	Ford Ford John Deens	ESCAPE F-550	2017 2016 2016	76 83 66	07/17	4WD 4WD 4WD	N Y Y	NE E E	16-23 8 N/A	Administrative Vehicle Operations Vehicle Service Truck Operations Vehicle Backhoe Machine	200000017	WILLIAM ST. I MARKET	Transferred to Hig	hwy #31
Column	International Ford Ford	Trailer 4400 F150 E450	2002 2003 2005	89 84 81	02/02 01/03 12/04 12/04	2WD 2WD 4WD	, ,	E NE	NA 13-15 12-15	Operations Vehicle Operations Vehicle Large Dump Truck Operations Vehicle 1 Ton Pick up Operations Service Truck			Yex	
Column	JCB Ford International	214 F550 7300	2006 2006 2007	79 66 65	07/06 02/06 42/06	4WD 4WD 2WD	Ŷ	-	NA B B-60	Operations Vehicle Backhoe Mechine Operations Vehicle Backhoe Mechine Operations Vehicle Facet Meunted Comp Prenations Vehicle Lacre Down Track				
Column	Ford Ford	E350	2008	8	04/08	2WD	Y		11	Operations Vehicle Emergency Van				
Column	Ford	F150	2009 2010	70	05/10	4WD 4WD	N N	NE.	14-10	Operations Vehicle Service Truck Operations Vehicle Pick up Truck				
Column	Ford Ford SLELIAR DPW - Cemetery Division	FISO ESCAPE Compressor 185	2009 2010 2014	76 77 67A	09/10 09/10 09/13 N/A	4WD 4WD 4WD 2WD	Y N N Y	NE NE E	12-18 22-25 N/A	Operations Vehicle Sension Truck Operations Vehicle Pick up Truck Administrative Vehicle Operations Vehicle				
March Marc	Ford Ford SLELIAR DPW - Cemetery Division	ESCAPE Concressor ISS	2009 2010 2014 YEAR	82 78 77 87A Contact &	01/09 08/10 08/13 N/A N/A Purchase od (W/A))	eWD eWD eWD 2WD 2WD System gwovs	Y N N Y >4,500 bs. 7 (Yea/No)	NE NE E	13 14-18 22-25 NA MPG rating	Coursions Vishide Station Truck Constraints Vishide Station Truck Administration Vishide Function Function	Is this a new	If new acquisition, what	Removed from	
March Marc	Ford SALIAR DPW - Cemetery Division FORD CHEV FORD	1950 1950 HOURE Comments (MS 1950 HOURE 1950 Hours (MS) Sharada (MO) 1950 HOURE 1950 HOURE 1950 HOURE	2010 2014 2014 VEAR 2008 2010 2006	82 76 77 87A Contact & Number:	01/09 08/13 08/13 N/A N/A Purchase of (W/VIII) 01/09 07/10 01/05	WD WD WD WD WD System System WWD WD WD	>1,500 Bit. 7 (tra760)	Europt (th)	15 14-15 22-25 N/A	Distriction Vehicle Service Track Connection Vehicle Service Track Administration Vehicle Connection Vehicle Pursion Connection Vehicle Service Track Connection Vehicle Service Track Connection Vehicle Service Track Connection Vehicle 1 for Picke Connection Vehicle 1 for Picke Connection Vehicle 1 for Picke Connection Vehicle 5 for Over Track	is this a new accelerion?	If new acquisition, what weblife did it replace?	Removed from investory?	
Application	Ford SELLIAN DPW - Carnetery Styleton EMAC FORD CHEV FORD SMOWCO	PSSS BOCKL PSSS BOCKL BOCKL PSSS BOCKL PSS BOCKL PSSS BOCKL PSS BOCKL PS	2010 2014 2014 2014 2016 2006 2010 2006 2002 1972	82 78 77 87A Contact & 116 117 119 120	01/99 08/10	WYD WYD WYD WYD WYD WYD WYD WYD WYD	Y N N Y >1,550 2m, 7 (Yes/No) Y Y	Enempt (MA)	13 14-15 22-25 NA MPG mins 9 17 10 NA NA	Connection White Service Death Connection White Date to Truck Connection White Date Truck Connection White Connection White Connection White Service Connection White Connection White Service Connection White Connection Connecti	Is this a new acouleillon?	Frow acquisition, what vehicle did it replace?	Removed from inventory?	
Column	Ford Ford SELLAN SELLAN INDE CHEV FORD JOB JOB JOB DPW - Parks Childre DPW - Parks Childre	LEGATE SCAPE Generature HIS MODEL FESS Sherish 2000 FASS PRACE SALER SALER SALER SALER SALER	2010 2014 2014 7EAR 2008 2010 2006 2010 2002 1872	120 520 Contact &	01/99 08/90 08/13 N/A N/A N/A N/A N/A 01/90 01/90 01/90 05/92 N/A N/A	4WD 4WD 2WD 2WD 2WD 5ystem 2WD 4WD 4WD 4WD 4WD 5ystem 5ystem 5ystem 5ystem 5ystem 5ystem	Y N N N Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Emmpt (m)	12 14-13 22-25 NA NA NA 177 19 17 19 NA NA	Constitute Violetic Service Track Constitute Violetic Service Track Constitute Violetic Service Francisco Constitute Violetic Service Track Constitute Violetic Service Track Constitute Violetic Service Track Constitute Violetic Service Track Constitute Violetic Service Constitute Violetic Service	posterior I		Removed from Investory?	
April	Total STATUS STATUS STATUS STATUS STATUS STATUS FORD FORD STATUS	1500 500 PESCAPE CONTROLLEY SE 1500 500 PESCAPE 1500 500 PESCAPE 1500	2000 2010 2014 2014 2006 2006 2006 2006 2006 2007 1972	119 120 Contact &	07/16	4WD 4WD 4WD 2WD 2WD 2WD 4WD 4WD 4WD 4WD 4WD 4WD 4WD 4WD	Y N Y Su. 7 (Yes 50) Y Y Y Y Su. 7 (Yes 50) Su. 7 (Yes 50) Su. 7 Y	Emmple (trix)	12 14-19 22-25 NA 18-2 2 17 10 NA NA NA NA	Committee Voltetic Brook Tooks Committee Voltetic Brook Tooks Committee Voltetic Brook Tooks Committee Voltetic Committee Voltetic Committee Voltetic Committee Voltetic Brook Tooks Committee Voltetic Brook Tooks Committee Voltetic Brook Tooks Committee Voltetic Brook Tooks Committee Voltetic Brook Marketo Committee Voltetic Brooks Committee Voltetic Committee	posterior I		Removed from investory?	
April	Figure 1 First States	1950 SECAPE SECA	2005 2010 2014 2014 2016 2016 2016 2016 2017 2017 2017 2015 1024 1024 1025 1026 1026 1026 1026 1026 1026 1026 1026	119 120 Contact &	07/16	4WD 4WD 2WD 2WD 5ystem CWWM 4WD 4WD 4WD 4WD 4WD 4WD 4WD 4WD	Y N N Y 24,500 2m. 7 (Yes/No) Y Y Y Y Y Y Y	Exempt (mx) Exempt (mx) Exempt (mx) Exempt (mx)	12 14-15 22-25 NA 10-2 17 10 10 10 10 10 10 10 10 10 10 10 10 10	Constant which does Took Constant Wild Too Took Constant Wild Too C	posterior I		Removed from investory?	
April	Tard Control of the C	1950 1950/195 1950/19	2002 2014 2014 2014 2016 2006 2010 2006 2000 2000 2000 2000	119 120 Contact &	07/16	4WD 4WD 2WD 2WD 2WD 4WD 4WD 4WD 4WD 4WD 4WD 4WD 4WD 4WD 4	Y N N Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Exempt (nbs)	12 14-13 22-25 NA 10-25 17 10-25 17 10-25 17 10-25 17 10-25 17 10-25 17 10-25 17 10-25 17 10-25 17 10-25 17 10-25 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Constant with Street Test Constant With Test to Berl Constant With Test Constant Wi	posterior I		Removed from investory? Removed from investory?	
Company	June Control C	1550-150-150-150-150-150-150-150-150-150	7000 2014 2014 2014 7000 2010 2000 2000 2000 2000 2000 2000	119 120 Contact &	07/16	#WD #WD 2 2 2 2 2 2 2 2 2	Y N N N N N N N N N N N N N N N N N N N	Emerget (CON) Emerge	12 14-15 22-25 NA	Continue March Stone Tool: On the Continue March Stone Continue March Conti	posterior I		Removed from Institute?	
Company	Land Control of the C	1500 1500	2019 2014 2014 2014 2014 2014 2014 2014 2014	119 120 500 to 119 101 107 111 111 115 105 115 102 103 103 103 103 103 103 103 103 103 103	07/16 N/A N/A 11/20 03/06 N/A 07/16 05/03 05/05 05/05	ENGLANCE AND	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Employers (Vibra)	15 14-16 22-25 NA	Continue to the Continue to th	posterior I		Removed from investory?	
March Marc	ZAMICAN John Desen GAM GAMO GAMO GAMO GAMO GAMO GAMO JOHN LOW JOHN JOH	502 Traine 2607 Traine 105 DBVS Lavormore 450 Traine 52 Traine 52 Traine 52 Section 500 SATOR 50	2002 2015 1004 1004 1005 1006 2001 2011 2012 2002 2003 2005 2005 2005 2005 2006 2006 2013	119 120 120 101 101 107 111 116 102 103 103 103 103 103 103 103 103 103 103	02/16 NA NA 11/20 02/06 NA 07/16 05/03 05/03 05/05 05/05 06/05 06/05 06/05	#WD	Y Y Y Y Y N N Y Y Y Y Y Y Y Y Y Y Y Y Y	E E E E E E E E E E E E E E E E E E E	NYA NYA NYA NYA NYA NYA NYA NYA NYA NYA	Constitute Visible Soul Machine Constitute C	Is total a more accordance?	Finer acquisition, what vehicle skill it restaus?	Removed from Institutory	
Secretary Colors 1907 17 17 17 17 17 17 17	ZOMECHI John Direct John Direct GRACO GRACO GRACO GRACO FORMAN FORMAN JOHN DORS JOHN D	502 Traine 2607 Traine 105 DBVS Lavormore 450 Traine 52 Traine 52 Traine 52 Section 500 SATOR 50	2002 2015 1004 1004 1005 1006 2001 2011 2012 2002 2003 2005 2005 2005 2005 2006 2006 2013	119 120 120 101 101 107 111 116 102 103 103 103 103 103 103 103 103 103 103	02/16 NA NA 11/20 02/06 NA 07/16 05/03 05/03 05/05 05/05 06/05 06/05 06/05	#WD	Y Y Y Y Y N N Y Y Y Y Y Y Y Y Y Y Y Y Y	E E E E E E E E E E E E E E E E E E E	NYA NYA NYA NYA NYA NYA NYA NYA SE SE SE SE SE SE SE SE SE SE SE SE SE	Constitute Visibilit Smill Univision Constitution Constitution Constitution Constitution (Loss Particles Machines Constitution (Loss Particles Machines Constitution (Loss Particles Machines Constitution (Loss Particles Machines Constitution Visibility Ford Machines Constitution Visibility Ford Machines Constitution Visibility Ford Machines Constitution Visibility Ford Machines Constitution Co	Is total a more accordant to 7	Finer acquisition, what vehicle skill it restaus?	Removed from Investory? Removed from Investory? Removed from Investory?	
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Application	JOHNSON John Davie Joh	502 Sales NAST Sales N	2002 2015 1924 1924 1926 2001 2002 2002 2003 2005 2005 2005 2005 2005	119 120 150 150 150 150 150 150 150 150 150 15	0016 N/A N/A 11/20 00/06 N/A 07/16 05/05 05/05 05/05 06/05 0	2WD	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	E E E E E E E E E E E E E E E E E E E	NYA NYA NYA NYA NYA NYA NYA NYA NYA NYA	Designation Variety South Marches Continues in Proceeds Marches Continues and Proceeds Marches Continues Andréa Designation of the Southern Andréa Continues Andréa Designation of the Continues Andréa Continues Andréa South Marches Continues Andréa	In this a new annual time?	Frame regulation, what vehicle slid it reduce?		
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Application	JOHNSON John Davie Joh	502 Sales NAST Sales N	2002 2013 2014 2014 2014 2015 2015 2015 2015 2015 2015 2015 2015	Cornect 1 1 1 1 1 1 1 1 1	(MM/Y) CHIEF CONTROL C	2WD	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	E E E E E E E E E E E E E E E E E E E	NA N	Designation Variety South Marches Continues in Proceeds Marches Continues and Proceeds Marches Continues Andréa Designation of the Southern Andréa Continues Andréa Designation of the Continues Andréa Continues Andréa South Marches Continues Andréa	In this a new annual time?	Frame regulation, what vehicle slid it reduce?		
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Ann.	JOHNSON John Davie Joh	SALE MANUAL PROPERTY OF THE PR	2002 2013 2014 2014 2014 2015 2015 2015 2015 2015 2015 2015 2015	100 100	00716 0000 0000 0000 0000 0000 0000 0000	2WD	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	E E E E E E E E E E E E E E E E E E E	N/A	Continue potenti forti Mentre Continue potenti forti Mentre Continue potenti forti Mentre Continue potenti potenti continue Continue potenti potenti continue Continue potenti continue Continue potenti potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue po	In this a new annual time?	Frame regulation, what vehicle slid it reduce?		
Column	JOHNSON John Davie Joh	SALE MANUAL PROPERTY OF THE PR	2002 2013 2014 2014 2014 2015 2015 2015 2015 2015 2015 2015 2015	100 100	00716 0000 0000 0000 0000 0000 0000 0000	2WD	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	E E E E E E E E E E E E E E E E E E E	N/A	Continue potenti forti Mentre Continue potenti forti Mentre Continue potenti forti Mentre Continue potenti potenti continue Continue potenti potenti continue Continue potenti continue Continue potenti potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue potenti Continue po	In this a new annual time?	Frame regulation, what vehicle slid it reduce?		
100 100	American Control of the Control of t	Service Servic	201 201 1000	100 100	(800) (800)	2WD	Y Y Y Y Y Y Y Y Y Y	Enempt Code State	N/A	Committee of the Commit	In this a new annual time?	Frame regulation, what vehicle slid it reduce?		
Company	AMERICA STATE OF THE PARTY OF T	Service Servic	201 201 1000	100 100	(800) (800)	2WD	Y Y Y Y Y Y Y Y Y Y	Enempt Code State	N/A	Committee of the Commit	In this a series and the series and	Free expellen, had added to the control of the cont	Removed from Investory?	
Company	AMERICA STATE OF THE PARTY OF T	Service Servic	201 201 1000	190 191	(800) (800)	2WD	Y Y Y Y Y Y Y Y Y Y	Enempt Code State	N/A	Committee of the Commit	In this a series and the series and	Free expellen, had added to the control of the cont	Removed from Investory?	
Company	AMERICA STATE OF THE PARTY OF T	Service Servic	201 201 1000	190 191	(800) (800)	2WD	Y Y Y Y Y Y Y Y Y Y	Enempt Code State	N/A	Committee of the Commit	In this a series and the series and	Free expellen, had added to the control of the cont	Removed from Investory?	
Column	AMERICA STATE OF THE PARTY OF T	Service Servic	201 201 1000	190 191	(800) (800)	2WD	Y Y Y Y Y Y Y Y Y Y	Enempt Code State	N/A	Committee of the Commit	In this a series and the series and	Free expellen, had with diff index? Free expellen, and white diff index? Free expellen, and white diff index?	Removed from Investory?	
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	James Andrews	Service Marie Control of the Control	TABLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000 1000	(1979) (1	2000	Y	Compared	MA	Section 1 and 1 an	In this a more manufactury.	Free application and a second a	Removal from Section 2	
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	James Andrews	Service Marie Control of the Control	TABLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000 1000	(1979) (1	2000	Y	Compared	MA	Section 1 and 1 an	In this a more manufactury.	Free application and a second a	Removal from Section 2	

Table 6: SAMPLE Vehicle Inventory

Click here to return to Table 6

Model	Make	Model Year	Month/Year Purchased	Drive System: 2WD, 4 WD, or AWD	> 8500 pounds? (Y or N or NA)	Exempt or Non- Exempt? E or NE	COMBINED MPG	Vehicle Function	Is this a new acquisition?	If new acquisition, what vehicle did it replace?	Removed from inventory?
Honda	Civic Hybrid	2013	July, 2013	2WD	N	NE	43	Inspector/Assess or shared car	YES	see vehicle on line 8 now deleted	
Ford	Crown Victoria	2011	April, 2011	2WD	NA	Е	14	Police CRUISER			
Ford	Crown Victoria	1999		2WD	N	NE	13	Assesor			YES

Criterion 5 - Stretch Code Adoption

Date Stretch Code Concurrency Period Bega

7/1/2011

Date Stretch Code Became Sole Effective Code:

1/1/2012

Have there been any new building permits since the Stretch Code became sole effective code?

YES

Please list all residential and commercial projects that were affected by the Stretch Code and for which building permits have been issued since the Stretch Code became the sole effective code, along with accompanying information noted below. If a previous Annual Report was filed, your table from the previous report is provided for updating. For notes on Certificate of Occupancy: if New Residential (NR), provide final HERS Rating; If Commercial and > 100K sq ft, note percent energy savings relative to ASHRAE 90.1-2007.

			Dated Certificate	
			of Occupancy	
		Date Building	Issued (if not	Notes on Cert of
	New Residential (NR),	Permit Issued :	issued, please	Occupancy
Address of Building	or Commercial (C)	Month - Year	note NA)	(see above)
75 ACORN PARK DR	NR	4/9/2015	NA	-
58 MARLBORO ST	NR	1/5/2016	7/23/2016	66
34 MERRILL AVE	NR	1/9/2015	6/4/2015	53
318 TRAPELO RD	NR	2/19/2015	2/26/2016	61
17 HAMILTON AVE	NR	1/9/2015	7/4/2015	56
10 SUMNER LANE	NR	5/1/2015	8/1/2016	50
115 FARNHAM ST	NR	8/20/2015	9/1/2016	61
151 DALTON RD	NR	8/13/2015	12/1/2015	56
54 EVERGREEN WAY	NR	7/24/2015	3/29/2016	64
16 TROY RD	NR	8/12/2015	7/28/2016	58
17 OAKMONT LANE	NR	3/28/2016	NA	-
7 OAKMONT LANE	NR	3/28/2016	NA	-
51 OAKMONT LANE	NR	3/28/2016	NA	-
9 AUDREY RD	NR	10/22/2015	10/26/2016	59
13 BIRCH ST	NR	11/12/2015	6/3/2016	48
15 WAVERLEY TER	NR	1/12/2016	8/30/2016	55
39 OAKMONT LANE	NR	3/28/2016	NA	-
11 WAVERLEY TER	NR	4/25/2016	8/30/2016	52
5 SUMNER LANE	NR	2/29/2016	NA	-
122 WAVERLEY ST	NR	4/11/2016	9/1/2016	56
54 WHITE ST	NR	3/16/2016	NA	-
24 UPLAND RD	NR	5/25/2016	NA	-
38 WELLINGTON LN	NR	8/5/2016	NA	-
7 SUMNER LANE	NR	4/25/2016	NA	-
26-28 DANTE AVE	NR	8/15/2016	NA	-
55 CONCORD AVE	NR	7/20/2016	NA	-
51 OAKMONT LANE	NR	8/17/2016	NA	-
9 WESTLUND RD	NR	10/27/2016	NA	-
45 MIDDLECOT ST	NR	12/7/2016	NA	-
505 COMMON ST	MIXED	12/6/2017	NA	-
100 CLIFTON ST	NR	6/13/2017	NA	-
1047 CONCORD AVE	NR	8/14/2017	NA	-
To insert additional rows, select				
this row, right-click, and select				
"Insert."				

Other Notes
Please provide in the space below any anecdotal information about your community's experience with the Stretch Code (e.g. local banks loaning more to people purchasing stretch code homes, satisfied homeowners, frustrated builders, etc.).
Please provide in the space below any information about additional measures taken by the community that are consistent with its status as a designated Green Community(e.g. additional as-of-right siting put in place since designation for renewable or alternative energy generation, R&D,
or Manufacturing facilities).
Please provide in the space below what percentage of your municipality's electricity consumption is supported by renewable energy
generation? Of this percentage, how much of this is onsite generation? How much of this is net metering? How much of this is through the purchase of Renewable Energy Certificates (RECs)?
of Reflewable Effergy Certificates (RECs):