



COMMONWEALTH OF MASSACHUSETTS

Charles Baker, Governor
Matthew Beaton, Secretary
Judith Judson, Commissioner

Green Communities Annual Reporting

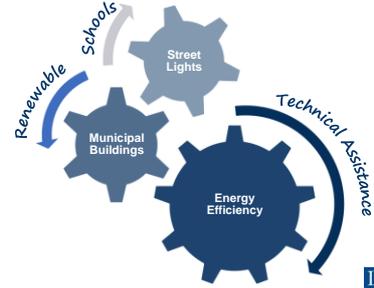
Kelly Brown, Central Regional Coordinator
Seth Pickering, Southeast Regional Coordinator
Aimee Powelka, Municipal Efficiency Coordinator

Green Communities Webinar

October 20, 2015

Green Communities Division

The energy hub for **all** Massachusetts cities and towns, not just designated "Green Communities."



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Outreach - Regional Coordinators

- Regional Coordinators act as direct liaisons with cities and towns on energy efficiency and renewable energy activities
- Located at each of the DEP Regional Offices:



WERO - SPRINGFIELD: Jim Barry
Jim.Barry@state.ma.us



NERO - WILMINGTON: Joanne Bissetta
Joanne.Bissetta@state.ma.us



CERO - WORCESTER: Kelly Brown
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SERO - LAKEVILLE: Seth Pickering
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Green Communities Division - Programs & Resources for Municipalities

- Green Communities Designation and Grant Program
- MassEnergyInsight energy tracking and analysis tool
- Municipal Energy Efficiency Assistance
- Energy Management Services Technical Assistance
- Mass Municipal Energy Group (MMEG)
- Website filled with tools & resources:
www.mass.gov/energy/greencommunities

Email updates via e-blasts – Sign up by sending an email to:
join-ene-greencommunities@listserv.state.ma.us



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Designation & Grant Program

Qualification Criteria: Designation

- Adopt as-of-right siting for RE/AE generation, R&D, or manufacturing
- Adopt expedited permitting process
- Create an Energy Reduction Plan to reduce energy use by 20% in 5 years
- Purchase only fuel-efficient vehicles
- Minimize life cycle cost in new construction → adopt the Stretch Code

Grant Funding

- Energy Efficiency Projects
- Renewable Energy Projects on municipal land



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GREEN COMMUNITY DESIGNATIONS REACH ONE HUNDRED THIRTY-SIX



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USING ANNUAL REPORT DATA

Compliance - with 5 designation criteria

Inspiring Others – we provide data from the annual reports to be used in talks given by the Governor, Secretary and Commissioner at local, regional, national and international meetings to inspire other organizations assisting municipalities

Green Communities Are Making A Difference

- **Progress Report** – on all 5 criteria - coming soon
- **GHG Reductions** – included in assessing MA progress towards climate goals mandated by the Global Warming Solutions Act



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Green Communities Annual Report Submission

1. Email your RC – pre-registration is required!
2. **Annual Report Deadline = 12/4/15**
3. You must submit your Annual Report as an **Excel** file
4. PDF the General Instructions worksheet after having it signed and submit it with the AR Excel file.
5. <https://massdoer.centraldesktop.com/qannualreportsubmit/>



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Green Communities Division Annual Report Basics

1. **Annual Report Deadline = 12/4/15**
2. Municipalities that do not submit an AR will not be eligible for next GC funding \$\$\$ opportunity
3. Please read the General Instructions worksheet in the Annual Report Excel file

9) Fields highlighted in yellow should be completed by Green Communities.

10) Fields highlighted in green have been pre-populated by the Regional Coordinators – **Check me!**



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INSTRUCTIONS

| | | |
|-----------------------------------|--------|---|
| Date Designated: | Dec-13 | PLEASE NOTE: For a municipality designated December 2013, the reporting period is 18 months, Jan 1 2014 - June 30 2015 |
| Date of Annual Report Submission | | |
| Name of Preparer of Annual Report | | |
| Title | | |
| Municipality Name | | |

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. |
|--------------------------------------|--|--|



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POLL QUESTION #1

Have you completed a Green Communities Annual Report before?

- a) Yes, by myself
- b) Yes, as part of a team
- c) No
- d) I can't remember



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Criteria 1 & 2 – RE/AE Zoning & Permitting



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Criteria 1 & 2

Worksheet

1. Check green cells for accuracy
2. Click on the yellow cells for Questions 1-3 and choose from the drop down box
3. Type any narrative into the yellow cell under Question 3
4. Click on the yellow Permitting cell and answer the question using the drop down box
5. To see a sample of the Criteria 1 & 2, Table 1, click on the link in the Table 1 header



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CRITERIA 1 and 2

Criteria 1 and 2

Type of as-of-right siting approval received:

Type of expedited permitting approval received:

REGULATIONS (zoning & permitting):

1) Have any significant changes been made to the zoning district(s) for which the community received Green Communities designation? Significant changes, such as changes to the geographic extent of the district, allowed uses, and dimensional requirements, would impact the ability to construct a qualifying clean energy use in the district. Overlay districts, such as water protection districts that impose special permitting requirements, count as significant changes.

<Select YES or NO>

If yes, attach a letter from municipal counsel that describes the changes, outlines any potential impact on the siting of clean energy projects, and affirms continued compliance with the Green Communities As-of-Right Zoning and Expedited Permitting criteria, as well as a revised zoning map. Please select YES or NO in the dropdown on the right. If YES, attach letter from municipal counsel.



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CRITERIA 1 and 2

2) Have any significant changes been made to site plan, design, or other development review criteria or any permit review procedures that would impact the ability to permit qualifying clean energy uses as-of-right and in a timely manner? Significant changes would be anything that pertains to the "by-right" nature of the zoning or to the amount of time necessary to review required permits.

<Select YES or NO>

If yes, attach a letter from municipal counsel that describes the changes, illustrates any potential impact on the siting of clean energy projects, and affirms continued compliance with the Green Communities As-of-Right Zoning and Expedited Permitting criteria. Please select YES or NO in the dropdown on the right. If YES, attach letter from municipal counsel.

3) Has the space designated for "as-of-right" development for which the community received Green Communities designation been reduced? Please select YES or NO in the dropdown on the right. If YES, explain what has happened since the community applied for, and received, Green Communities designation and describe any plans the community may have to make such development feasible again

<Select YES or NO>

NARRATIVE:



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CRITERIA 1 and 2

PERMITTING:

Have any clean energy projects applied for approval under the zoning for which the community received Green Communities Designation?

<Select YES or NO>

Please select YES or NO in the dropdown on the right. If YES, fill out Table 1 below:

| Table 1: SAMPLE Expedited Permitting Projects | | | | | | | | | |
|---|---|---------------------------------|----------------------|--|--|----------|----------------|---------------|---|
| PROJECT NAME | Type (Generation (Capacity), R&D, and/or Manufacturing) | As-of-right designated location | Applicant | Project Description | Permits (use as many rows as required) | Status | Date Submitted | Decision Date | Other Pertinent Information |
| Hilltop Wind | Renewable Energy (wind) 9 MW | and/or | Peak Performance LLC | Six 1.5 MW and access of land | Site Plan Review | Approved | 11/1/2010 | 1/21/2011 | Modest design changes to conform to as-of-right bylaw |
| | | | | Wetlands (access road is in buffer zone) | | Approved | 10/16/2010 | 1/22/2011 | |



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CRITERION 3 – Reducing Energy Usage



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CRITERION 3 CHECKLIST

1. Narrative
2. Building stock changes
3. MassEnergyInsight
 - a. Load data
 - b. Verify data
4. Table 3 – energy use
5. Table 2 – overview and weather normalization
6. Table 4 – energy conservation measures
7. Table 5 – renewable energy projects



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CRITERION 3

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:

7. Building Stock Changes

Please describe any building stock changes that have occurred since your O&C baseline year. Include the year and whether any changes are a replacement, addition, removal or renovation. Include any changes in square footage for additions. Link to Appendix A in the ERP Guidance.



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CRITERION 3 – Table 3

Using MassEnergyInsight

Energy Reduction Plan Guidance Table 3a (Native Fuel Units)
Energy Reduction Plan Guidance Table 3b (MMBTU)

REQUIRED

- Provide raw (non-normalized) energy usage data
- Load gasoline, diesel, oil, propane
- Load RE production that is *behind-the-meter* – ask if ≤ 10 kW
- RE production that is net-metered *should* have been provided by utility



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POLL QUESTION #2

Do you know how to load energy use data to MassEnergyInsight?

- Yes, no worries
- Probably, but I need to watch those videos to remember more
- No, I need help
- What kinds of data again?



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Loading Data into MEI



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Support for Loading Data into MEI

Learn how to do what you need to do. Each of the brief videos below explores a specific task in the system. Watch them once or over and over.

Updating & organizing your data

Organize Your Energy Data - RMT - Start here

4:32

Add a New Energy Account

3:14

Add a New Item to Your Tree

4:27

Add Energy Use Data Manually

3:29

Change the Name of a Tree Item

3:43

Delete Items from the Tree

3:46

Add Energy Account Info and Use Data

4:39

Making an Account Inactive

3:02

Reassign or Move an Account in the Tree

2:52

Remove an Account From Your Tree by Relinquishing It

2:00

Identifying and Isolating

4:46

Uploading a Spreadsheet

4:24

1

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CRITERION 3 – Table 3a

ERP Guidance Table 3a - Municipal Energy Consumption for Baseline Year FY 2010 (Native Fuel Units)

| | | Electric | Oil | Propane |
|--------------------------|---------|---------------|---------|--------------|
| Null, Null | Fire Ma | 87892286 | | 5,003 |
| | Transfe | 74845442 | 7,335 | |
| | | 92993977 | 3,018 | |
| Null, Total | | 10,353 | | 5,003 |
| Building, Administration | Town C | 17056407 | | 493 |
| | Office | 48395296 | 4,017 | |
| | Central | 46571058 | 28,946 | |
| | High C | 81364220 | | 6,006 |
| | Use and | 18622192 | | 1,763 |
| | Buildi | 24018581 | 26,117 | |
| | Buildi | 16344730 | 44,223 | |
| Building, Library | Sample | 23790017 | | 3,040 |
| | Librar | 23449617 | | 1,181 |
| Building, Public Safety | Kenne | 32983025 | 36,186 | |
| | Old En | 86018046 | 811 | |
| | Police | 40205690 | | 433 |
| | Police | 23870138 | 144,909 | |
| | | 1823803701 | 61,663 | |
| | | 195770688 | | 5,883 |
| Building, Public Works | Sheri | 2894927 | | 116 |
| | Evergr | 1,106 | | 5,162 |
| Building, School | Evergr | 1034579687 | | 18,502 |

Overnight



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CRITERION 3

Criterion 3 Instructions: Complete Steps 1-7

1. Read and complete all questions below.

2. Complete Table 2: Progress

Please complete Table 2 below. 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.**

For MassEnergyInsight Users: the easiest way to populate this table is to look at the ERP Guidance Table 3b (MMBTU) for each year. Enter the category totals and the grand total. Any null energy use should be assigned to the proper category or at least be consistent across the years. Please note if baseline numbers have changed due to any adjustments made in MEI, and, if so, what those adjustments were. Please verify that Table 2 matches the information in Table 3 (or MassEnergyInsight if using it to report).

To include a percentage of the energy use of a Regional School District, please include 3 versions of Table 2: one for the combined and final totals, one for the municipality alone, and one for the RSD (in its entirety, noting the applicable percentage).

3. Complete Table 3: Energy Use

REMEMBER to load all diesel, gasoline, heating oil and propane energy usage, as well as renewable energy usage that is NOT net-metered, 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 2.

If your community uses MassEnergyInsight (MEI) to provide data for Table 3, 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 "City 3 - Total Non-MEI User Only."

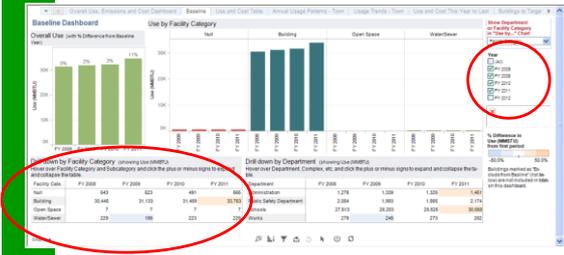
DATE:

CRITERION 3 – Table 2

| | Baseline MMBtu | Year 1 MMBtu | Year 2 MMBtu | Year 3 MMBtu | Year 4 MMBtu | Year 5 MMBtu | For Most Recent Year: Change vs. Baseline (%) |
|---|----------------|--------------|--------------|--------------|--------------|--------------|---|
| Note Fiscal or Calendar Year | | | | | | | |
| Buildings | | | | | | | #DIV/0! |
| Water/Sewer & Pumping | | | | | | | #DIV/0! |
| Open Space (optional) | | | | | | | #DIV/0! |
| Vehicles | | | | | | | #DIV/0! |
| Street and Traffic Lights | | | | | | | #DIV/0! |
| TOTAL ENERGY CONSUMPTION (NO Weather Normalization) | 0 | 0 | 0 | 0 | 0 | 0 | #DIV/0! |
| TOTAL ENERGY CONSUMPTION (Weather-Normalized) | | | | | | | #DIV/0! |



CRITERION 3 – Using MEI Baseline for Table 2



Enter into Annual Report Table 2, lines 8-12

CRITERION 3 – Table 2 – Using MassEnergyInsight for Weather Normalized Energy Use Data



Enter into Annual Report Table 2, line 14

MassEnergyInsight Weather Normalization – Its by Fuel

| | | Electric | Gas | Grand Total |
|------|-------------------------------|----------|-----|-------------|
| 2012 | Weather-Normalized Use MMBTU) | 2,681 | 362 | 3,043 |
| 2012 | Original Use (MMBTU) | 2,681 | 305 | 2,986 |
| 2013 | Weather-Normalized Use MMBTU) | 2,899 | 418 | 3,317 |
| 2013 | Original Use (MMBTU) | 2,899 | 411 | 3,310 |
| 2014 | Weather-Normalized Use MMBTU) | 2,746 | 364 | 3,110 |
| 2014 | Original Use (MMBTU) | 2,746 | 409 | 3,154 |
| 2015 | Weather-Normalized Use MMBTU) | 3,003 | 409 | 3,413 |
| 2015 | Original Use (MMBTU) | 3,003 | 463 | 3,467 |

CRITERION 3 – Table 2 – Using Energy Star Portfolio Manager for Weather Normalized Energy Use Data – Its by Building

| Property Id | Property Name | Year Ending | Weather Normalized Site Energy Use (kBtu) | Site Energy Use (kBtu) |
|-------------|----------------|-------------|---|------------------------|
| 4520347 | High School | 12/31/2014 | 102,648.4 | 107,242.8 |
| 4520346 | Public Library | 12/31/2014 | 54,738.3 | 55,263.6 |

In Portfolio Manager:

1. Create a template
2. Choose Energy Performance Metrics
3. Weather Normalized Site Energy Use
4. Include all properties

CRITERION 4 – Fuel-Efficient Vehicles



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CRITERION 4

Policy and Inventory Worksheets

1. Click on the yellow cells for Questions 1-6 and choose from the drop down box
2. Type any narrative into the yellow cell under Question 7
3. Check the green Narrative cell under Question 8 for accuracy
4. Click on the yellow Narrative under Question 8a if you are using an Alternative Compliance method for Criterion 4 and fill in the status of the Alternative Compliance method
5. Review the Criterion 4, Table 6 worksheet. Check the green cells for accuracy and provide any information requested from Question 5, in the purple cell at the bottom of the Vehicle Policies worksheet
6. Fill out Table 6 as appropriate



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CRITERION 4

Criterion 4 - Purchase Fuel Efficient Vehicles

1) Municipalities must have a fuel efficient vehicle policy that reflects the most recent guidance provided by the Green Communities Division (see <http://www.mass.gov/esa/energy-utilities-clean-tech/green-communities/gc-program/criterion-4.html> for most recent guidance).

2) Did you update your vehicle policy this year?

<Select YES or NO>

3) Did you install electric vehicle charging stations?

<Select YES or NO>

4) Did you implement anti-idling technology and/or campaigns?

<Select YES or NO>

5) Did you implement a driving monitoring system that records miles driven and/or fuel consumption?

<Select YES or NO>

6) Did you implement a fuel use reporting system for operators on fuel efficiency?

<Select YES or NO>



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CRITERION 4

7) Any other policies and/or technologies not listed above? Please estimate annual fuel savings from each new technology or policy in the yellow box below. Also please attach any new vehicle policies and technologies adopted by the municipality to this annual report.

NARRATIVE:

8) For communities that met Criterion 4 through alternative compliance, provide a narrative in the space below of the policies and programs that have been adopted to reduce fuel consumption.

8b) For communities that met Criterion 4 through alternative compliance, provide as a status regarding the success of these programs and policies.

NARRATIVE:



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CRITERION 4

4) Have there been any changes to your vehicle inventory since the last annual report?

<Select YES or NO>

5) Please provide the most current vehicle inventory that includes ALL vehicles (Both exempt and non-exempt) for ALL departments, including schools. Please do not report any exempt off-road vehicles, trailers, etc. The inventory submitted with either your most recent Annual Report filing or, if filing for the first time, submitted with your designation application, is either contained in the next worksheet, "Crit 4 - Table 6 Vehicle Inv.," or provided as separate file. In the inventory, 1) note 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 inventory in column M, and 3) note in column N if the vehicle has been retired. NOTE: For the purposes of the program, municipalities must use the EPA combined fuel economy estimate listed at FuelEconomy.gov and ensure that the rating greater than or equal to the requirement for the relevant vehicle type.



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CRITERION 4 – Table 6

Table 6. SAMPLE Vehicle Inventory
Click here to return to Table 6

| Model | Make | Model Year | Month/Year of Purchase | Drive System: ZWD, 4WD, or AWD | > 8500 pounds? (Y or N or NA) | Exempt or Non-Exempt? E or NE | COMBINED MPG Rating | Vehicle Function | Is this a new acquisition? | If new acquisition, what did it replace? | Remove vehicle from inventory? |
|-------|----------------|------------|------------------------|--------------------------------|-------------------------------|-------------------------------|---------------------|--------------------------------|----------------------------|--|--------------------------------|
| Honda | Civic Hybrid | 2013 | July, 2013 | ZWD | N | NE | 43 | Inspector/Assistant shared car | YES | See vehicle in line 6 how deleted | |
| Ford | Crown Victoria | 2011 | April, 2011 | ZWD | NA | E | 14 | Police CRUISER | | | |
| Ford | Crown Victoria | 1999 | | ZWD | N | NE | 13 | Assessor | | | YES |



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CRITERION 5 – Stretch Code



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CRITERION 5

Table 7

1. Check green cells at the top of the page for accuracy
2. Click on the yellow cell at the top of the worksheet and select yes or no from the drop down box to answer the question, "Have there been any new building permits since the Stretch Code became sole effective code?"
3. Check the green cells/rows in Table 7 for Stretch Code Projects for accuracy
4. Add new Stretch Code Projects in the yellow cell/rows for this reporting year
5. Use the drop down box for Column D when choosing if the project is New Residential (NR), Residential Retrofit (RR) or Commercial (C)



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CRITERION 5

Criterion 5 - Stretch Code Adoption

Date Stretch Code Concurrency Period Began:

Date Stretch Code Became Sole Effective Code:

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

If filing for the first time, please fill out the table below and add rows as needed. Please list in Table below 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 below for updating. For notes on Certificate of Occupancy: if New Residential (NR), provide final HERS Rating; if Residential Retrofit (RR) provide HERS rating OR "P" for Prescriptive; if Commercial and > 100K sq ft, note percent energy savings relative to ASHRAE 90.1-2007.

| Table 7 Stretch Code Projects (Add more rows as necessary) | | | | |
|--|---|-----------------------------|---|----------------------------|
| Address of Building | New Residential (NR), Residential Retrofit (RR) or Commercial (C) | Date Building Permit Issued | Dated Certificate of Occupancy Issued (if not issued, please note NA) | Notes on Cert of Occupancy |
| | | | | |
| | | | | |
| | | | | |
| To insert additional rows, select this row, right-click, and select Insert | | | | |



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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 air-tight siding 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)?



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COMMON ISSUES & QUESTIONS

- Annual Report Deadline: **Dec. 4, 2015**
- No report - ineligible for next GC funding opportunity
- Failing to adhere to Designation Criteria:
 - Inefficient vehicle purchases
 - Stretch code violations
 - 1st – corrective action plan
 - 1st – may impact next GC funding opportunity
 - 2nd – ineligible for next GC funding opportunity



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Assistance - Regional Coordinators



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QUESTIONS?

