2017 Updates to Sustainable Jersey

Energy Actions

March 1, 2017
Agenda for Today’s Webinar

• Going over changes to the Energy Efficiency actions
• Explain the new point values for Energy Efficiency upgrades/audits
• Provide some case studies demonstrating how the new point scale works
• Provide instructions on how to calculate energy savings (EUI)
Tony O’Donnell, Economist/Project Director, Sustainable Jersey
odonnела@tcnj.edu (609) 771-2921
Implementation measures vary widely in impact and difficulty - approach of Energy Task Force since 2014 has been to structure audits/upgrades as a continuum that rewards deeper energy savings with more SJ points.

Energy audits going unimplemented and becoming dated. What is the sustainability value?

Combining the audits/upgrades into a seamless action removes confusion.

We are very mindful of the time and resources it takes to document work in the energy sphere and are trying to simplify the process for Green Teams.

WE ARE LOOKING FOR FEEDBACK!
RECENTLY RETIRED ACTIONS

- **Bulky Rigid Plastics, Carpet & Foam Padding and Shrink Wrap**: All are now eligible for points under Non-Mandated Materials Recycling.
- **Complete Streets Program**: The Adopt a Complete Streets Policy and Institute Complete Streets have replaced this action.

**Energy Audits and Implement Energy Efficiency Measures**: The new Energy Efficiency for Municipal Facilities has replaced these two actions. Points can be earned under this action for energy audits and implementing energy efficiency measures.

Actions that are no longer eligible for points:

- Education for Sustainability Programs
- Energy Efficient Appliances or Equipment
- High Performance Building
- High Performance Building Portfolio
- School-Based Energy Conservation Programs
- Sustainable Energy Transition Plan
Action Update Alert on Sustainable Jersey Website
Municipal Action Landing Page

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These two actions were introduced in 2015 and replaced the 20 point “Audit One Building” action and the 50 point “Inventory & Upgrade All Buildings” action.
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RECENTLY RETIRED ACTIONS

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• **Complete Streets Program:** The Adopt a Complete Streets Policy and Institute Complete Streets have replaced this action.

• **Construction Waste Recycling:** Now eligible for points under the Construction and Demolition Waste Recycling action (formerly Construction & Demolition Waste Recycling Ordinance).

• **Energy Audits and Implement Energy Efficiency Measures:** The new Energy Efficiency for Municipal Facilities has replaced these two actions. Points can be earned under this action for energy audits and implementing energy efficiency measures.

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• Education for Sustainability Programs
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  • High Performance Building
  • High Performance Building Portfolio
• School-Based Energy Conservation Programs
• Sustainable Energy Transition Plan
# Municipal Program Energy Actions - 2016 Certification Cycle

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New Action: Residential Energy Efficiency Outreach

• Action combines into a sliding point scale the two approaches that have been successfully piloted and implemented by Sustainable Jersey municipalities.
  ➢ **20 points:** The municipality identifies a single, municipally-approved contractor to perform Home Performance with Energy Star audits through a competitive RFP/RFQ process.
  ➢ **10 points:** The municipality performs outreach to residents about the Home Performance with Energy Star but does not require the issuance of an RFP by the municipality that results in a single energy audit provider.

• The action now includes more detailed guidance on including the Comfort Partners program in residential energy efficiency outreach efforts.

• No change in resubmission requirements or time stamp for the action

• New section establishing guidelines for this action that will be required as part of achieving a GOLD Star in energy.
New Action: Commercial Energy Efficiency Outreach

- Action combines into a sliding point scale the Direct Install outreach campaign to local businesses as well as the incentive for reaching a municipal target
  - **10 points**: Municipalities will earn 10 points for implementing an outreach and education effort detailing the advantages of the Direct Install program for local businesses.
  - **For an additional 10 points**: Your municipality can earn 10 points toward certification if it can achieve a target goal of 5% participation rate for the local business community.

- No change in resubmission requirements or time stamp for the action

- New section establishing guidelines for this action that will be required as part of achieving a GOLD Star in energy.
The sliding scale of points available for energy efficiency for municipal buildings is as follows:

- **5 points** - Completion of an audit on at least one building, but not covering all buildings
- **10 points** - Completion of a Local Government Energy Audit that covers all buildings under municipal control
- **15 points** - Significant upgrade work performed on one building (at least 10% cost savings demonstrated)
- **20 points** - Completion of a Local Government Energy Audit that covers all buildings under municipal control as well as significant upgrade work performed that shows at least a 10% demonstrated cost savings for one building

(Scale continued on next slide)
New Action: Energy Efficiency for Municipal Facilities

• **30 points** - Energy efficiency upgrades that show between a 10% to 19% decrease in energy consumption for the entire building portfolio

• **40 points** - Energy efficiency upgrades that show between a 20% to 29% decrease in energy consumption for the entire building portfolio

• **50 points** - Energy efficiency upgrades that show at least a 30% decrease in energy consumption for the entire building portfolio

Note that there are many combinations of audits/work or audits alone or upgrades alone that fit into the sliding point scale of this new action.
Question: What will I need to submit to document this action?

Answers:

- For point levels that require an audit, you will need to upload a copy of the audit with your submission (e.g. LGEA report or private audit report).
- For point levels that require upgrades, you will need to provide proof that the work was completed (e.g. Direct Install, Smart Start, or Pay for Performance reports).
- For the 30 to 50 point levels, you will need to provide data that illustrates the change on your energy consumption that results from the upgrades.
New Action: Energy Efficiency for Municipal Facilities

**Question:** How long will my approval be good for under this new action?

**Answer:**

- For the 5, 10, 15, and 20 point levels of this action, the action will be set to expire 5 years from the date of the baseline year provided for the data. For example, a municipality submitting an audit from 2015 will have the approved action remain good until June 2020.

- For the 30, 40, and 50 point levels of this action, the action will be set to expire 10 years from the completion of the energy upgrades. For example, in the case of a municipality submitting evidence of energy upgrades that were completed in 2013, the approved action will expire in June 2023. *If the calculation of energy savings is based on projected saving in an audit, the action will set be set to expire 5 years from the date of the audit.*
New Action: Energy Efficiency for Municipal Facilities

Question: What are the resubmission requirements for this action?

Answer:

• For the 5, 10, 15, and 20 point levels of this action - to resubmit for points under this action, please provide updated information for all the requirements listed under “What to submit to earn points for this action” section of this action.

• For the 30, 40, and 50 point levels of this action - to resubmit for points under this action, please provide updated information for all the requirements listed under “What to submit to earn points for this action” section of this action. This will include a full year of energy usage data for all facilities in the building portfolio from within 12 months of the submission deadline.
New Action: Energy Efficiency for Municipal Facilities

And now for some examples:

Case #1: Municipality X has three buildings under its control. It completed an LGEA on all three of the buildings in 2013, but has not yet undertaken any of the recommended upgrades.

Under this new action: Municipality X would be eligible for 10 points. They would need to submit the results of the audit with their certification application. They would be eligible again for these points under any future resubmission until June 2018. After that, they would either need to undertake a new audit OR implement some of the recommendations in the 2013 audit and provide data showing the change in the energy usage over time.
Case #2: Municipality Y has four buildings under its control. It has not completed an audit on any of the buildings, but it did complete work on one of its buildings through the Direct Install program in 2015.

Under this new action: Municipality Y would be eligible for 15 points. They would need to submit the results of the Direct Install report with their certification application. The savings demonstrated from the Direct Install upgrades must be projected to save the municipality at least 10% in cost savings annually. They would be eligible again for these points under any future resubmission until June 2020.
Case #3: Municipality Z has seven buildings under its control. It has entered into a contract to complete an Energy Savings Improvement Program (ESIP) in 2014 that projects an annual energy savings of 28%.

Under this new action: Municipality Z would be eligible for 40 points. They would need to submit the results of the ESIP report with their certification application. Since ESIP reports include high-level audits and plans with documented savings and cover entire building portfolios, the requirements of this action are met. They would be eligible again for these points under any future resubmission until June 2024. The only additional data they would need to supply upon resubmission would be updated energy usage data.
New Action: Energy Efficiency for Municipal Facilities

**Question:** How do we document the Energy Savings required for the 30, 40, and 50 point levels of this action?

**Answer:**
There a number of ways to do this:

- If you have an Energy Tracking & Management system in place, you can easily run an Energy Performance Report that will give you an updated Energy Use Intensity score for the previous 12 months of data.

- For initial certification under this action, points can be awarded for potential energy savings. The relevant EUI calculations will thus be included in the audit report that you need to submit for the action.

- You can use the spreadsheet tool provided with the action
### Sustainable Jersey Energy Use Intensity Calculator

**Approach #1 - Change in Energy Use Intensity based on recent Energy Use Data after a previous audit**

Since this action requires a measure of your entire building portfolio, you will need to provide data for all buildings in your portfolio regardless of whether or not any upgrades have been completed on each building.

To do this, follow these steps:

1. Use the tab in this spreadsheet titled "EUI Change from Usage Data."
2. For each building, enter the name of the facility, the square footage for the facility, and the energy usage identified in the baseline audit in Columns B - G. This data will go into the yellow shaded cells of the spreadsheet. Be sure to include the date for the year of the audit in Cell H1. The spreadsheet tool will automatically calculate for you the Energy Use Intensity score for each building based on the data.
3. For each building, enter the energy usage for the most recent 12 months of actual energy use data in the cells in Columns K - O. This data will go into the blue shaded cells of the spreadsheet. Be sure to include the date for the year of the energy use data in Cell P1. The spreadsheet tool will automatically calculate for you the Energy Use Intensity score for each building based on the data.
4. The spreadsheet will calculate the change in Energy Use Intensity for each building, and will also provide the weighted EUI for your entire portfolio. The red shaded cell in column T is the change in EUI for the portfolio that is used to place you on the sliding scale of points for this action.

**Approach #2 - Change in Energy Use Intensity based on potential savings identified in an Energy Audit**

Since this action requires a measure of your entire building portfolio, you will need to provide data for all buildings in your portfolio. The changes in Energy Use Intensity for this approach will be based on estimated energy savings identified in the audit.

To do this, follow these steps:

1. Use the tab in this spreadsheet titled "EUI Change from Audit."
2. For each building, enter the name of the facility, the square footage for the facility, and the energy usage identified in the baseline audit in Columns B - G. This data will go into the yellow shaded cells of the spreadsheet. Be sure to include the date for the year of the audit in Cell H1. The spreadsheet tool will automatically calculate for you the Energy Use Intensity score for each building based on the data.
## Example of Calculator for Potential Savings Identified in an Audit:

<table>
<thead>
<tr>
<th>Building</th>
<th>Building area in square feet</th>
<th>Enter your grid purchased electricity (kWh) in this column</th>
<th>Enter your natural gas (therms) in this column</th>
<th>Enter your oil (gallons) in this column</th>
<th>Enter your on-site generated electricity (kWh) into this column</th>
<th>total kWhs per month</th>
<th>Baseline EUI</th>
<th>Enter potential electricity savings from ECMs (kWhs) in this column</th>
<th>Enter potential natural gas savings from ECMs (therms) in this column</th>
<th>Enter potential oil savings from ECMs (gallons) in this column</th>
<th>Enter potential on-site generated electricity savings from ECMs (kWhs) in this column</th>
<th>total kWhs per month after energy upgrades</th>
<th>EUI after Energy Upgrades</th>
<th>% Change EUI in Facility</th>
<th>Weighted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building A</td>
<td>43,000</td>
<td>189,243</td>
<td>17,999</td>
<td></td>
<td></td>
<td>3,896,532</td>
<td>90.6</td>
<td>38,791</td>
<td>3,947</td>
<td></td>
<td></td>
<td>3,130,024</td>
<td>72.8</td>
<td>-19.7%</td>
<td>-1.04%</td>
</tr>
<tr>
<td>Building B</td>
<td>41,740</td>
<td>546,490</td>
<td>26,605</td>
<td></td>
<td></td>
<td>6,492,594</td>
<td>156.9</td>
<td>54,619</td>
<td>5,995</td>
<td></td>
<td></td>
<td>5,248,046</td>
<td>127.3</td>
<td>-18.7%</td>
<td>-0.94%</td>
</tr>
<tr>
<td>Building C</td>
<td>32,200</td>
<td>252,300</td>
<td>21,055</td>
<td></td>
<td></td>
<td>5,643,618</td>
<td>125.0</td>
<td>17,954</td>
<td>3,947</td>
<td></td>
<td></td>
<td>3,802,744</td>
<td>108.5</td>
<td>-12.8%</td>
<td>-0.52%</td>
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<tr>
<td>Building D</td>
<td>56,600</td>
<td>272,930</td>
<td>27,529</td>
<td></td>
<td></td>
<td>5,815,295</td>
<td>102.7</td>
<td>42,573</td>
<td>6,582</td>
<td></td>
<td></td>
<td>4,817,373</td>
<td>88.2</td>
<td>-16.1%</td>
<td>-1.12%</td>
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<tr>
<td>Building E</td>
<td>369,000</td>
<td>2,956,956</td>
<td>265,838</td>
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<td>54,886,769</td>
<td>348.7</td>
<td>474,257</td>
<td>89,540</td>
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<td>48,401,702</td>
<td>199.5</td>
<td>-26.4%</td>
<td>-11.95%</td>
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<tr>
<td>Building F</td>
<td>272,500</td>
<td>2,920,200</td>
<td>226,246</td>
<td></td>
<td></td>
<td>35,170,564</td>
<td>248.7</td>
<td>257,091</td>
<td>29,950</td>
<td></td>
<td></td>
<td>34,213,946</td>
<td>225.9</td>
<td>-13.7%</td>
<td>-4.23%</td>
</tr>
</tbody>
</table>

**Totals**: 814,720 | 5,702,529 | 457,073 | 114,270,163 | 140.3 | 885,412 | 127,672 | 91,375,704 | 112.2 | -19.82%

Adapted from Solar Oregon’s site EUI calculator for homes [http://solaroregon.org/downloads/eui-calculator/view](http://solaroregon.org/downloads/eui-calculator/view)
Sustainable Jersey Energy Use Intensity Calculator

Example of Calculator based on audit baseline and subsequent actual data:

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<th>total kWh per month</th>
<th>Baseline EUI</th>
<th>Enter your grid purchased electricity (kWh) in this column</th>
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<th>Enter your propane (gallons) into this column</th>
<th>Enter your on-site generated electricity (kWh) into this column</th>
<th>total kWh per month</th>
<th>Current EUI</th>
<th>% Change EUI in Facility</th>
<th>Weighted</th>
</tr>
</thead>
<tbody>
<tr>
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<td>44,000</td>
<td>212,468</td>
<td>31,582</td>
<td></td>
<td></td>
<td>5,594,683</td>
<td>127.1</td>
<td>204,000</td>
<td>30,846</td>
<td></td>
<td></td>
<td>5,404,877</td>
<td>122.8</td>
<td>-3.4%</td>
<td>-10.3%</td>
</tr>
<tr>
<td>Building W</td>
<td>54,655</td>
<td>365,226</td>
<td>34,293</td>
<td></td>
<td></td>
<td>7,514,718</td>
<td>137.5</td>
<td>327,741</td>
<td>29,688</td>
<td></td>
<td></td>
<td>6,644,973</td>
<td>121.0</td>
<td>-11.0%</td>
<td>-2.8%</td>
</tr>
<tr>
<td>Building X</td>
<td>88,717</td>
<td>514,600</td>
<td>49,531</td>
<td></td>
<td></td>
<td>10,715,636</td>
<td>120.0</td>
<td>468,140</td>
<td>40,578</td>
<td></td>
<td></td>
<td>9,224,072</td>
<td>103.9</td>
<td>-13.9%</td>
<td>-4.2%</td>
</tr>
<tr>
<td>Building Y</td>
<td>31,666</td>
<td>229,545</td>
<td>25,013</td>
<td></td>
<td></td>
<td>5,886,590</td>
<td>56.1</td>
<td>101,041</td>
<td>10,763</td>
<td></td>
<td></td>
<td>5,914,295</td>
<td>75.4</td>
<td>-26.1%</td>
<td>-4.9%</td>
</tr>
<tr>
<td>Building Z</td>
<td>53,145</td>
<td>374,140</td>
<td>21,701</td>
<td></td>
<td></td>
<td>6,200,092</td>
<td>116.2</td>
<td>137,160</td>
<td>21,701</td>
<td></td>
<td></td>
<td>6,060,392</td>
<td>110.2</td>
<td>6.0%</td>
<td>0.00%</td>
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</table>

Adapted from Solar Oregon's site EUI calculator for homes: https://solaroregon.org/downloads/eui-calculator/view
Question: What happens to our municipality if we previously had been awarded the 50 point “Inventory & Upgrade All Buildings” action? How do we go about resubmitting that previous work under this new action?

Answer:
Based on the criteria to have been approved for that action, you MUST have completed audits for all buildings AND done some upgrades to some of them. So, to resubmit here you will need to gather the 12 most recent months of actual energy usage data for the facilities and calculate the change in EUI from the baseline audits for the whole portfolio to see where you fall on the new scale of points.
Note that you can receive 20 points under this action without having to calculate an EUI as long as you can show cost savings of at least 10% on at least one building.
### Municipalities Due for Certification that currently have 50 point action

<table>
<thead>
<tr>
<th>Municipality</th>
<th>County</th>
<th>Municipality</th>
<th>County</th>
<th>Municipality</th>
<th>County</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allendale Boro</td>
<td>Bergen</td>
<td>Haddon Twp</td>
<td>Camden</td>
<td>Shrewsbury Boro</td>
<td>Monmouth</td>
</tr>
<tr>
<td>Andover Twp</td>
<td>Sussex</td>
<td>Hoboken City</td>
<td>Hudson</td>
<td>Somerville Boro</td>
<td>Somerset</td>
</tr>
<tr>
<td>Avalon Boro</td>
<td>Cape May</td>
<td>Hopewell Twp</td>
<td>Mercer</td>
<td>South Plainfield Boro</td>
<td>Middlesex</td>
</tr>
<tr>
<td>Berkeley Heights Twp</td>
<td>Union</td>
<td>Jersey City</td>
<td>Hudson</td>
<td>Stillwater Twp</td>
<td>Sussex</td>
</tr>
<tr>
<td>Bethlehem Twp</td>
<td>Hunterdon</td>
<td>Kearny Town</td>
<td>Hudson</td>
<td>Stone Harbor Boro</td>
<td>Cape May</td>
</tr>
<tr>
<td>Cape May City</td>
<td>Cape May</td>
<td>Linwood City</td>
<td>Atlantic</td>
<td>Tenafly Boro</td>
<td>Bergen</td>
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<tr>
<td>Cherry Hill Twp</td>
<td>Camden</td>
<td>Long Branch City</td>
<td>Monmouth</td>
<td>Upper Saddle River Boro</td>
<td>Bergen</td>
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<tr>
<td>Denville Twp</td>
<td>Morris</td>
<td>Mountain Lakes Boro</td>
<td>Morris</td>
<td>Upper Twp</td>
<td>Cape May</td>
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<tr>
<td>Edison Twp</td>
<td>Middlesex</td>
<td>Ocean Twp</td>
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<td>Wall Twp</td>
<td>Monmouth</td>
</tr>
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<td>Flemington Boro</td>
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<td>Pemberton Twp</td>
<td>Burlington</td>
<td>Warren Twp</td>
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</tr>
<tr>
<td>Franklin Twp</td>
<td>Hunterdon</td>
<td>Princeton</td>
<td>Mercer</td>
<td>Watchung Boro</td>
<td>Somerset</td>
</tr>
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<td>Garfield City</td>
<td>Bergen</td>
<td>Ramsey Boro</td>
<td>Bergen</td>
<td>West Amwell Twp</td>
<td>Hunterdon</td>
</tr>
<tr>
<td>Gloucester Twp</td>
<td>Camden</td>
<td>Raritan Twp</td>
<td>Hunterdon</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Questions
Upcoming Technical Assistance Calls

Dates for Energy Technical Assistance calls:

– March 23\textsuperscript{rd}, noon – 1:00 PM
– April 26\textsuperscript{th}, 7:00 – 8:00 PM
– May 16\textsuperscript{th} noon – 1:00 PM

Registration is not required! Log in through Go to Meeting at this link:  
https://global.gotomeeting.com/join/842038685

You can also dial in using your phone.  
United States (Toll Free): 1 877 309 2070
The triple bottom line benefits of green infrastructure and other ecological approaches to flood management and erosion control are becoming increasingly important, given the trends in heavier precipitation events, increasingly intense storms and sea level rise. This webinar will feature a team of ecologists, engineers and planners who have been working with NJ coastal communities for the past two years on strategies to help minimize flood risks, protect fish & wildlife habitats and strengthen overall community resilience to coastal flooding.

This webinar has been made possible through a grant from the National Fish and Wildlife Foundation and the “Building Ecological Solutions to Community Coastal Hazards” program administered by the NJ Department of Environmental Protection.

For more details, or to register, visit www.sustainablejersey.com/Events&Trainings
FREE Technical Assistance with Energy Actions

Partnership with the Environmental Defense Fund (EDF) and New Jersey Natural Gas (NJNG) to provide a powerful program to assist municipalities and school districts within NJNG service territory in completing the Sustainable Jersey energy actions. Efforts will be focused on improving building performance through energy efficiency analysis, planning, and upgrades, but may also include renewable energy and other energy-related improvements. Full-time, on-site support will be provided for 10 weeks in the summer of 2017.

Learn how the EDF Fellows can help your town: Lessons from the Field: EDF Climate Corps Fellows Document Municipal and School Progress in Sustainable Jersey

Application Deadline: Friday, April 14, 2017 at 11:59pm
NEED HELP?
MENTORSHIPS AVAILABLE FOR REGISTERED TOWNS

If you’re a registered town that would like to pursue certification for 2017, Sustainable Jersey is offering you the opportunity to be mentored. Winnie Fatton, Program Manager, is seeking towns that are interested in getting certified, and would like some coaching along the way. If you’re interested in learning more, email fatton@tcnj.edu or call Winnie at 609-771-2855 to get started.