



Empowering you to make
smart energy choices

**Clean Energy Communities
Presented at the 2017 ACEEE
National Conference on Energy Efficiency as a Resource
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Agenda

- **History**
- **Executive Commitment**
- **EPA Portfolio Manager**
- **20% Energy Reductions**
- **Triple Bottom Line – Money in their pocket**
- **Collaborating and Results**
- **Competition and Behavior**
- **Sharing Data**

Energize Connecticut



Empowering you to make
smart energy choices



A UIL HOLDINGS COMPANY



- **Customers save money and use clean, affordable energy**
- **Electric and natural gas ratepayer funded**
- **Administered by the state's local utility companies**
- **Programs developed by Connecticut Energy Efficiency Fund and Connecticut Green Bank**
- **Programs include Residential, Commercial & Industrial, K-12 Education, and Clean Energy Communities**



Executive Commitment

CLEAN ENERGY COMMUNITIES MUNICIPAL PLEDGE

The Clean Energy Communities program is an initiative funded by both the Clean Energy Finance and Investment Authority (CEFIA-formerly known as the Connecticut Clean Energy Fund) and the Connecticut Energy Efficiency Fund. CEFIA and the Energy Efficiency Fund develop programs which collectively seek to have Connecticut cities and towns both reduce energy use and increase support for clean, renewable energy for municipal facilities. The Energy Efficiency Fund programs are administered by The Connecticut Light and Power Company, The United Illuminating Company, Yankee Gas Services Company, The Southern Connecticut Gas Company, and/or Connecticut Natural Gas Corporation (collectively, "the Companies").

By applying currently available energy efficiency and clean, renewable energy technologies the Town of Trumbull can save money, create a healthier environment and strengthen local economies, and according to the Town of Trumbull makes the following Clean Energy Communities Municipal Pledge:

1. The Town of Trumbull pledges to reduce its municipal building energy consumption by 20% by 2018. Building energy consumption shall be determined by benchmarking municipal building energy consumption to a baseline fiscal year. The Town of Trumbull can elect from the following fiscal years to determine its energy baseline year: 2008-2009, 2009-2010, 2010-2011, or 2011-2012.
 - a. The Town of Trumbull will seek to reduce its municipal building energy consumption for all municipal facilities by at least 20% by 2018. The schedule follows:
 - i. Fiscal Year 2012-2013: 5% Reduction
 - ii. Fiscal Year 2013-2014: 8% Reduction
 - iii. Fiscal Year 2014-2015: 11% Reduction
 - iv. Fiscal Year 2015-2016: 14% Reduction
 - v. Fiscal Year 2016-2017: 17% Reduction
 - vi. Fiscal Year 2017-2018: 20% Reduction
 - b. The Town of Trumbull will work with the Companies, contractors or other entities to audit all municipal buildings (including board of education buildings) to determine all municipal building energy usage.
 - c. Beginning July 1, 2015, the Town of Trumbull agrees to provide documentation of municipal building energy consumption on an annual basis by the end of the first quarter of the following fiscal year.
 - d. The Town of Trumbull pledges to create its own Municipal Action Plan (MAP) to document and reduce its energy consumption. The Town of Trumbull may satisfy this requirement by adopting a pre-existing municipal energy plan, sustainability plan, climate change action plan or other plan.
 - e. There is no penalty if the Town of Trumbull fails to meet the reduction amounts set forth in this section above. However if these reduction targets are not met starting July 1, 2015, the Town of Trumbull will be eligible to receive Bright Ideas Grants from the Connecticut Energy Efficiency Fund under the Clean Energy Communities program.
2. The Town of Trumbull pledges to purchase 20% of its municipal building electricity from clean, renewable energy sources by 2018.
 - a. The Town of Trumbull will seek to make a voluntary purchase of at least 20% of the electricity for all municipal facilities from clean, renewable energy sources by annual CEC program requirements. The schedule follows:
 - i. Fiscal Year 2012-2013: 15% Purchase
 - ii. Fiscal Year 2013-2014: 16% Purchase
 - iii. Fiscal Year 2014-2015: 17% Purchase
 - iv. Fiscal Year 2015-2016: 18% Purchase

- v. Fiscal Year 2016-2017: 19% Purchase
- vi. Fiscal Year 2017-2018: 20% Purchase

- b. The Town of Trumbull agrees to provide CEFIA documentation of its municipal clean energy purchases on an annual basis by the end of the first quarter of the following fiscal year. CEFIA intends to request documentation of municipal clean energy purchases for FY2011-2012 in July 2012.
- c. The Town of Trumbull acknowledges that clean, renewable sources are those defined in section 16-1 of the general statutes as Connecticut Class I renewable energy sources or meeting Green-e® Energy certification standards.
- d. The Town of Trumbull may satisfy the voluntary purchase requirement by purchasing Green-e® energy certified Renewable Energy Credits (RECs), enrolling one of more municipal facilities in the CleanEnergyOptions™ program, installing renewable energy systems (provided that the RECs associated with such system(s) are quantifiable and not held by a third-party) or any combination thereof.

There shall be no penalty if the Town of Trumbull fails to meet the items set forth in the schedule above; however, the Town of Trumbull will not be eligible to receive incentive rewards from CEFIA under the Clean Energy Communities program.

The Town of Trumbull agrees to promote energy efficiency and clean, renewable technologies in its municipal buildings. The Town of Trumbull is encouraged to establish a Clean Energy Task Force, or comparable committee, to assist the municipality in meeting the Clean Energy Communities Municipal Pledge. The Town of Trumbull is encouraged to conduct energy audits and outreach among residents, businesses and institutions within the community to promote energy efficiency and clean, renewable energy programs.

In order to meet the Clean Energy Community Program requirements outlined by CEFIA and the Energy Efficiency Fund, the Town of Trumbull may qualify, subject to the terms of the program, for the following grants:

For every 100 points, the Town of Trumbull may earn a 1 kilowatt (or equivalent) energy saving system. For every 100 points, the Town of Trumbull may earn a Bright Ideas Grant that can be used for energy-saving projects. The Town of Trumbull is eligible to receive Bright Ideas Grants per fiscal year.


Timothy Herbst
First Selectman
Town of Trumbull

7/10/12

The Town of Trumbull understands that the Clean Energy Communities Municipal Pledge is not a contract, and that CEFIA, the Energy Efficiency Fund, and the Companies have not contracted, committed, agreed or promised, to perform or incur any obligations, in any manner, hereunder.

Technical Assistance

Initial Kick-Off Meeting

Input Data

Analyze Data

Evaluate Building Performance

- ✓ Determine Baseline Year
- ✓ Collect data
- ✓ CEC describe process

- ✓ Create ENERGY STAR Portfolio Manager account
- ✓ Collect building demographics
- ✓ Input Data

- ✓ Analyze data
- ✓ Determine missing data
- ✓ Collect data on site

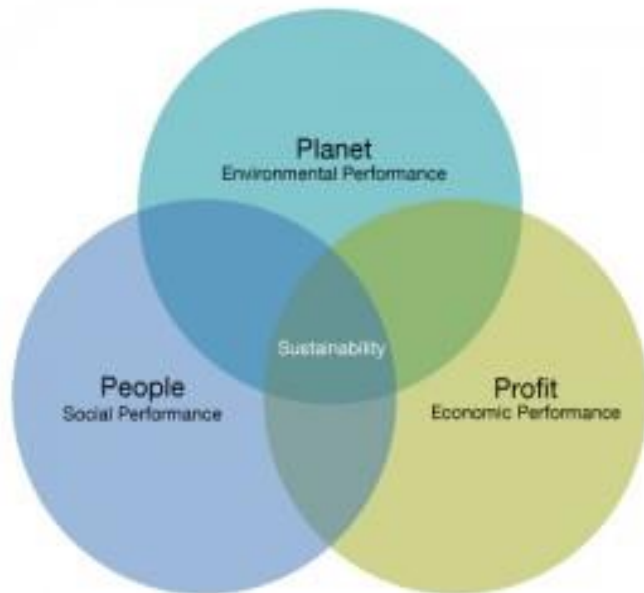
- ✓ Run/analyze reports to determine energy reductions
- ✓ Develop Municipal Action Plan

So Now What? Progress Towards 20% Energy Reduction

- **Clean Energy Communities** are achieving building energy reductions between 1% - 42%.
- An integral part of assisting communities reach these energy reduction goals is the assistance we provide on US EPA portfolio manager and planning “Municipal Action Plan” resources.



Triple Bottom Line



Triple Bottom Line

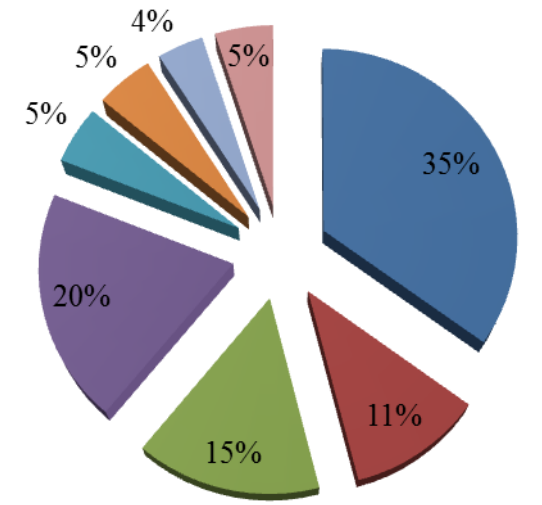
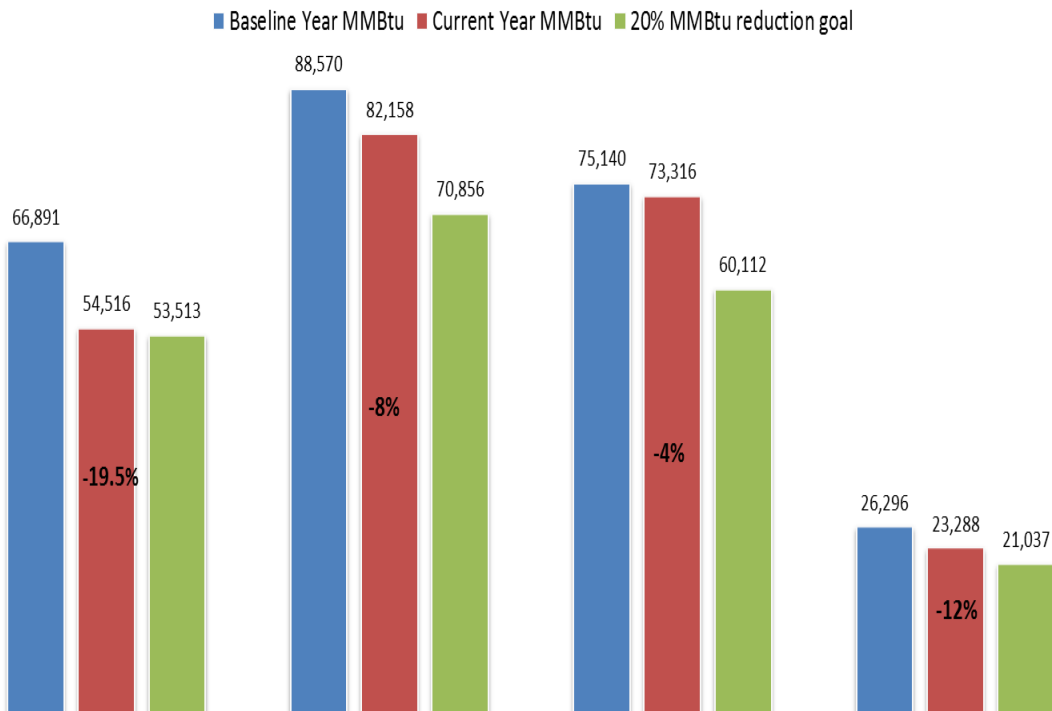
- **Reduce energy consumption**
- **Reduce greenhouse gas emissions**

- **Reduce costs**

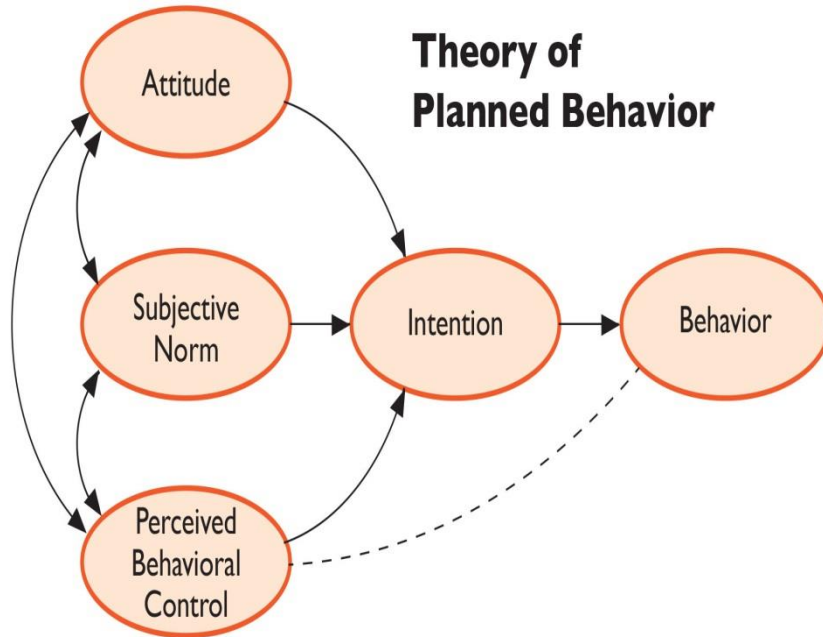
- **Increased comfort**
- **Increase jobs**

The Power of Collaboration

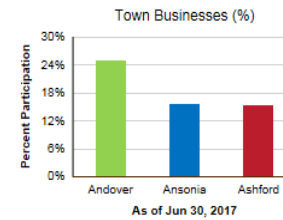
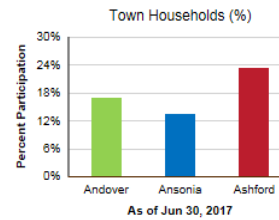
Clean Energy Communities Town Energy Reduction Progress



A little competition



Theory of Planned Behavior



[Print this page](#)

[View Annual Reports for Clean Energy Communities](#)

[View Annual Reports for Aggregate Energy Usage](#)

[View Installed Renewables Energy Capacity Report By Town](#)

	Click to Compare	Andover <input type="button" value="v"/>	Ansonia <input type="button" value="v"/>	Ashford <input type="button" value="v"/>
Energy Efficiency Participation 100 Points = 1 Bright Idea Grant				
Total Number of Households		1278	7359	1649
Households		16%	13%	23%
Residential Rebates Redeemed		2%	3%	2%
Businesses		25%	15%	15%
Special Project Points		0	15	17
Total Points Earned		212	177	231
Total Redeemed Points		100	100	100
Total Remaining Points		112	77	131
Total Energy Used				
Total Residential Electric Usage (kWh)		11,764,517	51,265,719	15,552,871

Sharing Data

ENERGY STAR PortfolioManager™

MyPortfolio | Home | Planning | Reporting | Administration

144 Store

144 Store (144 Store), 144 Store | 144 Store (144 Store)

Energy Star Property ID: 144 Store | Property Location: 144 Store | Year Built: 144 Store

Current Score: 85 | Baseline Score: 75

Current Baselines & Targets

Electricity (kWh)	Energy (kBtu)	Water (gallons)
144 Store	144 Store	144 Store
144 Store	144 Store	144 Store
144 Store	144 Store	144 Store

Metrics Comparison for Your Property & Your Target

Metric	Property	Target	Year	Score
Electricity	144 Store	144 Store	2014	85
Electricity	144 Store	144 Store	2013	85
Electricity	144 Store	144 Store	2012	85
Electricity	144 Store	144 Store	2011	85
Electricity	144 Store	144 Store	2010	85

ENERGY STAR PortfolioManager™

MyPortfolio | Home | Planning | Reporting | Administration

Properties (1)

Add a Property

Notifications (0)

You have no new notifications.

My Properties (0)

Filter by: Year of Property (0) | Sort: [Dropdown] | Add Property

Name	Action
144 Store	[Dropdown]
144 Store	[Dropdown]
144 Store	[Dropdown]
144 Store	[Dropdown]
144 Store	[Dropdown]
144 Store	[Dropdown]
144 Store	[Dropdown]
144 Store	[Dropdown]

Score EUI Trend

Total kWh Electricity Trend

If you're not sure how to use the chart, please contact the user manual for more information.

Systematic Approach



Conclusion – It Takes a Village

- We walked through the Clean Energy Communities process of assisting Cities and Towns become more sustainable with energy and they are applying lessons learned to other local resources (transportation, resiliency, services, etc)
- We bring the village together!



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QUESTIONS

THANK YOU