Energy Efficiency Board 2017 Programs and Operations Report

MARCH 1, 2018













EXECUTIVE SUMMARY





We are honored to present the 2017 Programs and Operations Report of the Connecticut Energy Efficiency Board (EEB) to the Connecticut General Assembly. You will find a summary of the considerable results achieved in 2017, the second year of the current three-year Conservation and Load Management (C&LM) Plan. The EEB continues to focus on the energy needs of Connecticut's residents, businesses, and municipalities by ensuring high quality energy efficiency programs.

Unfortunately, 2017 closed on a damaging note for energy efficiency in Connecticut. The state budget passed in late October imposed a major fund raid on the Connecticut Energy Efficiency Fund (CEEF) – a sweep totaling \$127 million over the two-year state budget cycle. This amounts to a 33% cut to CEEF's annual electric efficiency budget.

This diversion of electric ratepayer funding for state budgetary needs will have harmful consequences for Connecticut. We estimate, for example, that these funding cuts will cause lost bill savings of approximately \$275 million, 1.6 million additional gallons of oil to be burned annually, and approximately 13,000 homes, including 5,600 low-income households, to lose access to efficiency improvements. We also estimate that thousands of jobs will be lost, and efficiency projects worth over \$30 million will be canceled annually in 2018 and 2019.

In response to the CEEF raid, the EEB revised the existing C&LM Plan to reduce its scope, making difficult decisions to curtail, sometimes severely, effective and popular energy efficiency programs. Despite this, we remain hopeful that the General Assembly

will reverse course and reinstate CEEF's costeffective energy efficiency investments before damage to the state's economy, residents and businesses, public health, and environment becomes irreversible.

Janen O'Commor

Taren O'Connor

Office of Consumer Counsel and Chairperson of the Connecticut Energy Efficiency Board Wi. E. M

William E. Dornbos

Acadia Center and Vice-Chairperson of the Connecticut Energy Efficiency Board

ENERGY EFFICIENCY BOARD PROGRAMS AND OPERATIONS

Promoting economic development, environmental benefits, and energy security through the efficient use of energy. Energy efficiency programs and services are marketed under the statewide brand, Energize ConnecticutSM, and provided by Eversource, United Illuminating, Connecticut Natural Gas and Southern Connecticut Gas.

The Energy Efficiency Board's (EEB) 15 appointed members are drawn from private and public entities and represent a cross section of energy consumers including residents, businesses, communities (including not-for-profit) and municipalities. The EEB is assisted by consultants who are experts in their respective fields. The EEB assists and advises the utilities throughout the year via participation in various committees and as a whole. The EEB also collaborates and cooperates with the energy efficiency programs of the Connecticut Municipal Electric Energy Cooperative (CMEEC) and the Wallingford Electric Division (WED).



EXECUTIVE SUMMARY

Energy Efficiency Programs — Delivering Economic Benefits To Connecticut In 2017



34,000 JOBS

According to the U.S. Department of Energy. Includes the design, installation and manufacturing of energy efficiency products and services in Connecticut.¹



\$1 GENERATES \$7 BACK

Dollars that are used by residents, businesses and municipalities to support household expenses, pay local salaries, and contribute to the quality of life in Connecticut.²



\$1.4 BILLION INCREASE TO THE GROSS STATE PRODUCT

Generated by the Connecticut Energy Efficiency Fund.²



\$32.0 MILLION

SAVED ANNUALLY BY BUSINESSES



\$42.7 MILLION

SAVED ANNUALLY BY RESIDENTS



236,789 TONS³ CO₂ EMISSIONS AVOIDED

EMISSIONS AVOIDED ANNUALLY



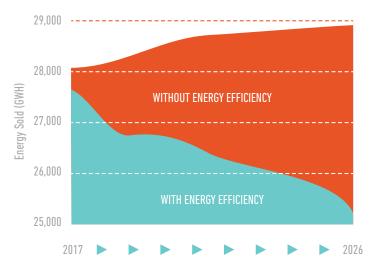


The installation of hot water-saving showerheads and faucet aerators included in the Home Energy SolutionsSM program results in an average of 1,000 gallons of water saved per household annually.

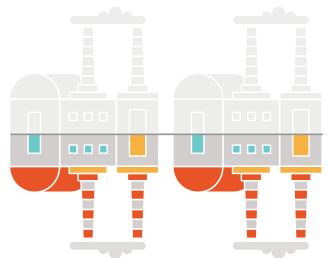
ENERGY EFFICIENCY IS A LOW-COST SUBSTITUTE FOR GENERATION

OFFSETTING DEMAND

Forecasted Eversource and UI Sales⁴



IN 2017, ELECTRIC ENERGY EFFICIENCY BENEFITS IN CONNECTICUT WERE EQUIVALENT TO TWO 45-MEGAWATT POWER PLANTS.



1 U.S. Energy Employment Report, Department of Energy, 2017

2 2009 Environment Northeast (ENE) "Energy Efficiency in Connecticut: Engine of Economic Growth". (Based on updated formula data).

3 Ton = 2,000 lbs

4 2017 CT Siting Council Forecasts. http://www.ct.gov/csc/cwp/view.asp?a=950&Q=589640&PM=1

\$32,000,000 SAVED*

THIS IS HOW THEY DID IT THE THIS IS HOW THEY DID IT

* Based on annual savings expected in Connecticut.

MOST TYPICAL PROCESS EQUIPMENT UPGRADES

- Air compressors and leak repairs
- Electric motors (including those for pumping and ventilation systems)
- Injection molding machines
- Process cooling and heat recovery systems (for data centers, clean rooms, process cooling, etc.)
- Refrigerated air cycling dryers

GIVING MORE THAN 6,000 BUSINESSES, NON-PROFIT ORGANIZATIONS AND GOVERNMENT SECTOR BUILDINGS A COMPETITIVE ADVANTAGE

COMPRESSED AIR

Virtually all industrial companies use compressed air.
In 2017, approximately 107 customers improved the efficiency of their compressed air systems.

INSTANT LED DISCOUNTS

- 61 Distributor ____Locations
- = 265,000 LED Lamps Sold

Replacement LED lamps sold at a reduced cost without the need for a rebate form.

SMALL BUSINESS ENERGY ADVANTAGE

The small business program continues to provide comprehensive energy- and cost-savings via a turnkey solution for customers who typically do not have in-house energy management resources. The program has evolved to include more savings opportunities for heating, cooling, controls, and various specialty equipment. Zero-percent financing is also available with easy repayment on the customer's electric bill. The authorized contractors, along with their suppliers and subcontractors, have increased and prospered as well. In 2017, the Small Business Energy Advantage program completed nearly 1,800 projects.

COMPREHENSIVE ENERGY UPGRADES: HALL NEIGHBORHOOD HOUSE, BRIDGEPORT, CT

\$15,450 estimated annual savings No-interest financing

Assessment and Improvements Included

Installation of energy-efficient lighting

HVAC equipment and controls

This 60-year old non-profit community center was challenged by outdated systems that were wasting resources. A free energy assessment by a UI-authorized contractor revealed opportunities to save both electricity and natural gas. These custom energy solutions provide significant value to aging facilities. Long-term cost savings from reduced energy consumption and maintenance expenses, along with non-energy benefits such as improved comfort and safety, made a real difference to the more than 600 children and seniors who use the community center each day.



"Any change that helps us run more cost effectively is appreciated by our donors; we are responsible to them and to the community we serve to direct funds to programs, not to unnecessary maintenance."

ROBERT DZURENDA. EXECUTIVE DIRECTOR

TRADE ALLY SPOTLIGHT: LANTERN ENERGY

"Lantern Energy is one of the very few companies providing both residential and commercial energy efficiency services in Connecticut. Our customers include small businesses, single, and multifamily homes. We provide them with audits, lighting, equipment upgrades, insulation and solar systems that make them sustainable, competitive and comfortable. Energy efficiency is a growth catalyst for our business customers, an increasingly necessary choice for our residential customers, and the basis of our own company investments. Our expansion plan for 2018 includes hiring additional electricians, engineers, residential techs and carpenters."

PETER CALLAN, PRINCIPAL, LANTERN ENERGY

BUSINESS ENERGY SOLUTIONS

MUNICIPAL BUILDINGS

Connecticut's municipal buildings include more than 104 million square feet of primary and secondary schools, town halls, administrative office buildings, police stations, park and recreation facilities and waste water treatment plants. Energy efficiency improvements to these buildings generate millions of dollars in annual savings that go right back into services for our cities and towns and continue to provide savings year after year.

COMFORT AND SAVINGS: CANTON POLICE DEPARTMENT. CANTON. CT



"We completed the upgrades in late 2017 and have already seen a major difference in our energy usage and the overall comfort of the police department."

GEORGE WALLACE, TOWN PROJECT ADMINISTRATOR

\$5,715 estimated annual savings

Assessment and Improvements Included

Interior LED lighting

HVAC equipment and controls

Energy management system

Although the Canton Police Department is less than 20 years old, Town Project Administrator George Wallace noticed that the original HVAC system provided inconsistent airflow throughout the building. After installing updated HVAC equipment, an energy management system, and switching all interior lighting to LED bulbs, the police department now has a more comfortable environment for its officers and has decreased

its overall energy usage by 20 percent. The Town of Canton is planning similar updates for other municipal buildings based on the successful results from the police department project.

EXISTING BUILDINGS (MID- AND LARGE-SIZED CUSTOMERS)

ENERGY-EFFICIENT SOLUTIONS THAT PAY OFF NOW AND IN THE FUTURE

Connecticut's businesses are interested in improving their overall functionality in addition to saving energy. Facility managers and owners are focusing on improvements that align with their overall vision of where their organization needs to be – and energy is an integral component.

In 2017, comprehensive energy efficiency solutions continued to evolve with the implementation of energy usage assessments for manufacturers, a focus on building management systems, and customized energy solutions. Additionally, an advanced lighting strategy was initiated to further shift the market toward primarily LEDs and maximize LED capabilities through sophisticated advanced controls.

BRIGHTER FUTURE FOR HISTORIC SCHOOL: BRIDGEPORT INTERNATIONAL ACADEMY, BRIDGEPORT, CT

\$29,126 estimated annual savings

Improvements Included

Energy management system

LED interior lighting

Variable frequency drives

3 split HVAC systems

21 water source heat pumps

Bridgeport International Academy (BIA), built in 1886, has made major updates to its facility's energy infrastructure. These measures coincide with the school's teachings on conservation. The comprehensiveness of this upgrade – using immediate payback from lighting and controls to help support new HVAC equipment – solved the problem of failing units and constant repairs. Teachers and staff now have the ability to control temperature and lighting in classrooms from phones or laptops.



"We are all enjoying a better work environment and there's little maintenance. The savings we achieve will allow us to invest back into our students."

DR. FRANK LAGROTTERIA, HEADMASTER

TRADE ALLY SPOTLIGHT: SARRACCO MECHANICAL SYSTEMS

"Sarracco Mechanical Systems is a two-generation, family-owned and operated company that sells, installs and services HVAC, plumbing, and electrical products to all types of businesses throughout Connecticut. As a service-based contractor, we see how companies react in tough times. Every dollar is accounted for and has meaning, so when businesses can get any financial relief, they jump on it. This is why Connecticut's energy efficiency programs are so impactful on the business community. They allow businesses the opportunity to invest in high efficiency equipment and do their part to help the environment. Businesses want and understand the importance of being green and energy efficient – they just need assistance – and energy efficiency programs enable them to make the financial decision to invest in smart energy.

Energy efficiency has become a significant part of our business. It has helped our business grow, and keeps our electricians and installers in the field. We currently employ 160 people in Waterbury and Norwalk, and expect to double or possibly triple our energy efficiency business within the next year."

JAMIE SARRACCO – VICE PRESIDENT, SARRACCO MECHANICAL SERVICES

BUSINESS ENERGY SOLUTIONS

NEW CONSTRUCTION/EQUIPMENT

MODERN. SUSTAINABLE – WITH AN EYE TOWARDS ZERO ENERGY BUILDINGS

Developers, property owners and tenants want it all – buildings that appeal to customers and employees. Buildings that help meet sustainability goals. Buildings with better internal air quality and super-efficient process equipment. They want these buildings to have flexibility – to be able to reconfigure them as needs change and still be energy efficient. One way to get closer to those goals is to anticipate the future through energy modeling that is done in the pre-design or schematic design stage. In 2017, energy modeling partners were brought into the new construction program. Additionally, Eversource and United Illuminating hosted a "Path To Net Zero for Commercial Buildings Conference," which brought leaders in the industry together to position Connecticut for this next wave in the design and build marketplace.

BUILDING THE LARGEST DAIRY IN CONNECTICUT: OAKRIDGE DAIRY, LLC, ELLINGTON, CT

\$182,000 estimated annual savings

New Construction Features Included

High efficiency barn fans

Interior and exterior LED lighting design

Air compressor with VFD technology

Cycling refrigerated air dryer

Plate cooler

Milking cooling pump VFD

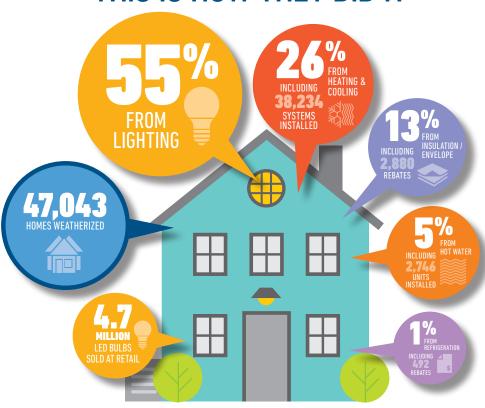
Founded in the late 1800's, this farm is in its fifth generation. The new barn, with its state-of-the-art rotary milking "parlor", can accommodate 2,700 cows that produce about 25,000 gallons of milk a day. The new facility also has a dedicated medical wing for the cows. Ten local contractors were part of this construction project, including builders, electricians, and HVAC specialists, demonstrating that energy-efficient construction has economic benefits for both the individual owner, and the state's economy.



"Our new dairy facility has allowed us to get very efficient in many different ways. Efficiency in a commodity market is very important and by choosing energy-efficient equipment, we saved big time on our operating cost."

SETH BAHLER, OWNER

\$42,700,000 SAVED* THIS IS HOW THEY DID IT



* Based on annual savings expected in Connecticut.

HOME ENERGY SOLUTIONSSM

A CHANGING VALUE PROPOSITION

Make. Life. Better.

Make the place you call home a smart energy home.

The headline (above) of the 2017 statewide media campaign captured the shift in focus from selling products and services to connecting on benefits and lifestyle. This re-defined value proposition from "how" to "why" reflected the Three-Year Plan's overarching theme of customer engagement.

WEATHERIZATION

Weatherization has been a focus of the energy efficiency programs for many years and supports the state's goal of weatherizing 80 percent of homes by 2030. In 2017, the Companies launched an educational campaign to help customers understand the value of weatherization and learn about available resources.

- Improved performance reducing how often your heating and cooling equipment needs to run.
- Comfort fewer drafts, a quieter home.
- Clean keeps the outside from coming in. That includes pollen, dust and other allergens.

RESIDENTIAL ENERGY SOLUTIONS

SAVINGS AND SUSTAINABILITY: **PINEAU FAMILY, SHELTON, CT** HOME ENERGY SOLUTIONS

61-year old home, single family \$917 estimated annual savings (before solar installation)

Assessment and Improvements Included

Blower door and duct testing to assess air leakage

Combustion testing for health and safety hazards

Low-flow shower heads and faucet aerators

Professional air sealing

Hot water pipe insulation

Installation of LED light bulbs

Attic insulation and an attic hatchway insulation hood

Central air conditioning return vent covers

Susan Pineau and her husband are diligent about managing their energy usage and regularly review the comparison feature on their monthly United Illuminating bill. In an effort to reduce their bill, they inquired about the benefits of solar energy and learned about the Home Energy Solutions program. The Pineau's energy efficiency upgrades were the first step of their family's sustainability journey. They completed their Home Energy Solutions upgrades, including attic insulation, before installing rooftop solar photovoltaic equipment. Susan Pineau says her home is noticeably more comfortable now. By significantly increasing their energy efficiency, in advance of their solar installation, they have maximized their savings now and in the future.



"The contractor went above and beyond, and we are ecstatic about our savings!"

SUSAN PINEAU

TRADE ALLY SPOTLIGHT: ENERGY EFFICIENCIES SOLUTIONS (EES)

"Energy Efficiencies Solutions (EES) is a full-service energy improvement company providing customers with home energy assessments, energy usage reports, air sealing, insulation, windows, solar, heating and cooling systems and renewable energy consultation. As energy efficiency professionals, my staff and I love our jobs and are proud that our contributions help Connecticut be efficient, progressive and a more affordable place to live and work.



EES served more than 2,300 families and located 81 incidents of high CO or gas leaks, saving them money and improving their health and safety. Additionally, the upgrades provided resulted in a projected savings of more than \$2 million over the lifetime of the improvements.

Energy efficiency is important not only to my company, but to my customers. My staff and I constantly receive notes from customers thanking us for helping them feel safe in their house again and helping them save energy and money. Without the energy efficiency programs, many homeowners and businesses we serve wouldn't have that opportunity."

LETICIA COLON DE MEJIAS - CEO, ENERGY EFFICIENCIES SOLUTIONS (EES)

LOW COST, ENERGY-SAVING HOME IMPROVEMENTS: **DAVEY FAMILY, MANCHESTER, CT** HOME ENERGY SOLUTIONS-INCOME ELIGIBLE

SUCCESS STURY

The Davey Family of Manchester previously considered replacing their single-family home's inefficient windows and insulation but found the upgrades to be too costly for their budget. After applying for Home Energy Solutions-Income Eligible services, Eversource connected the family with an authorized program contractor. The contractor provided on-the-spot improvements as part of the service, including air sealing, LED bulb replacement and the installation of water-saving shower heads, completely free of charge. Through the Home Energy Solutions – Income Eligible program, they were also able to replace their inefficient windows with double-pane ENERGY STAR® certified windows and update their basement ceiling insulation – all by paying a small co-pay instead of the entire cost of both projects. The Davey Family now has a high-performance home that is more comfortable, healthier and delivering month after month savings on their energy bills.



43-year old home, single family \$950 estimated annual savings

Assessment and Improvements Included

Blower door and duct testing to assess air leakage

Combustion testing for health and safety hazards

Low-flow shower heads and faucet aerators

Professional air sealing

Installation of LED light bulbs

ENERGY STAR® certified double-pane window installation

Updated basement ceiling insulation

"The project, especially the upgraded windows and insulation, will deliver ongoing cost savings to my family, which has made such a difference in our lives."

HAL DAVEY

MULTIFAMILY INITIATIVE

DELIVERING VALUE FOR OWNERS AND TENANTS

Seventeen percent of all housing units in Connecticut are within multifamily buildings of five or more units. In the last two years, the Multifamily Initiative has provided energy retrofit services to more than 16 percent of those units – a significant achievement in a short time.

Per the Connecticut Economic Resource Center (CERC), younger generations are purchasing houses later in life than previous generations, and baby boomers no longer need spacious suburban homes. This has resulted in rising popularity of smaller homes and rentals in more urbanized areas. The increase in total number of units served through the Multifamily Initiative in 2017, and, in particular, the increase in market rate units, reflect that trend.*





RESIDENTIAL ENERGY SOLUTIONS

ENERGY EFFICIENCY – A TOP AMENITY: **THE MANSIONS AT HOCKANUM CROSSING, VERNON, CT** MULTIFAMILY INITIATIVE

700 one- and two-bedroom luxury apartments \$180,000 in estimated annual energy savings – an average of \$260 saved per unit

Assessment and Improvements Included

Comprehensive energy assessment of 11 different floor plans

Professional air sealing around attic access hatches, doors, windows, and heating/cooling ductwork

Installation of LED light bulbs

With incandescent lighting still prevalent inside the units at this 43-acre rental community, and insufficient weatherization to keep up with the New England weather, energy efficiency quickly became a top item on Hockanum Crossing's amenity wish list. The key, though, was to make the improvements while accommodating the schedules of 700 tenants, an accomplishment that Property Manager Mary Gordon described as "knocked out of the park – it gives our residents a reason to stay." Residents are expected to save nearly \$1.8 million over the next 20 years, based upon the predicted use of the new lighting and weatherization improvements.



business, property

managers have the freedom to reduce costs in their own way. Our residents pay their utility bills – so for us, energy efficiency is the best offer. Brand new apartments pop up every day, so it's important to stay competitive and maintain the integrity of our property. It gives residents peace of mind knowing that their apartments are efficient—especially when our weather can be so unpredictable."

MARY GORDON, PROPERTY MANAGER, HOCKANUM CROSSING

TRADE ALLY SPOTLIGHT: CMC ENERGY SERVICES, INC.

"CMC Energy Services, Inc. installs energy efficiency measures in over 4,000 multifamily homes annually through the Energize Connecticut programs. These benefit the residents of Connecticut by helping them save money and live more comfortably, but there are other benefits too. When inside these homes, we are not only installing measures, there is a great deal of customer education that helps residents adopt energy-efficient behavior as well. Additionally, health and safety issues are brought to the attention of the property manager or owner when our technicians explore areas such as crawlspaces under buildings that might not be examined regularly. LED retrofits have helped to increase light levels which provides a safer environment. The money saved can be reinvested into the building to increase the quality of life for these tenants.

Energize Connecticut programs develop well-paying careers, not only jobs, for individuals with a passion for promoting energy efficiency, sustainability, and helping people. The programs help to keep trade workers such as electricians and HVAC technicians in Connecticut busy. It also helps keep local manufacturers of windows and other building products busy. This all creates more revenue for the State of Connecticut. Without Energize Connecticut's programs, Connecticut would not be ranked 6th nationally by the American Council for an Energy Efficient Economy (ACEEE)!"

LARRY RUSH - MULTIFAMILY DIVISION SUPERVISOR - CMC ENERGY SERVICES, INC.

RESIDENTIAL NEW CONSTRUCTION

2017 ENERGY STAR® CERTIFIED HOMES MARKET LEADER **AWARD WINNER**

The Federal Department of Energy recognizes outstanding partners who have made important contributions to energy-efficient construction and environmental protection. Both Eversource and United Illuminating were 2017 winners in recognition of the Residential New Construction program.



The Residential New Construction program promotes and facilitates the advancement of high performance and zero net energy homes in Connecticut. In 2017, architects, developers and builders completed 1,828 projects through the Energize Connecticut program, including homes that are now "renewable ready," via the program's Photovoltaic-Ready Checklist.

ENERGIZE CT ZERO ENERGY CHALLENGE

The annual CT Zero Energy Challenge is a design and build competition that acts as an educational platform to showcase the very best high performance, zero net energy homes in the state.



Overall Winner: Deb and Russell Heinrich, Guilford, CT Builder: Celebration Green Design & Build, Madison, CT

This home is built to the hallmarks of the Passive House standard

Thermal bridge-free, double-wall construction

Advanced air sealing and high-efficiency insulation

High performance tilt-and-turn triple pane windows

Energy recovery ventilation system

ENERGY STAR® appliances and LED lighting throughout

Geothermal heating & cooling system

12.6 kWh rooftop solar array

RETAIL LIGHTING, HEATING. COOLING. WATER HEATERS

Rising consumer acceptance and falling prices of LED light bulbs was the headline story of retail products in 2017.



In 2017, Connecticut consumers purchased LED light bulbs in unprecedented numbers. This market-driven increase has been building for several years, resulting in a reduction of incentive dollars needed to drive sales. While retail lighting is still a significant driver of residential energy savings, program administrators continue to shift resources towards the promotion of HVAC and water heating equipment via partnerships with distributors and retailers throughout the state.

Lighting Retail Locations

4.786.061 LEDs Sold 55% Increase From 2016

HVAC and Water Heating Equipment Retail and Distributor Locations

31.329 HVAC Units Sold 2.746 Water Heaters Sold

COMMUNITY AND EDUCATION ENERGY SOLUTIONS

EDUCATE, ENGAGE, EMPOWER

MUNICIPAL BENCHMARKING

Eversource and United Illuminating worked with nearly all cities and towns across the state to cut energy costs, complete infrastructure upgrades, and support capital improvements last year. Activities included energy-efficient light bulb swaps, campaigns to sign residents up for Home Energy Solutions, and outreach to small businesses to help them save energy.

One key component of the 2017 effort was the benchmarking of municipal buildings. Benchmarking is the foundation of a municipal energy management strategy and it allows local government property owners and facilities managers to:

- Better measure the energy performance of a city's or town's building stock
- Facilitate energy accounting
- Compare a facility's energy use to similar facilities to assess opportunities for improvement
- Quantify or verify energy savings

Working with the utilities, most municipalities are now using the interactive, online ENERGY STAR® Portfolio Manager benchmarking tool, which allows tracking of energy and water consumption across an entire portfolio of buildings. To date there are more than 300 Connecticut municipal and board of education Portfolio Manager accounts



established and current. These accounts represent 3,235 local municipal buildings, including 40 that have earned ENERGY STAR certification.

WORKFORCE DEVELOPMENT

Energize Connecticut's workforce development program provides both youth and adults with career advancement and training opportunities in the state's growing energy job sector. Partnerships with the state's technical high schools, community colleges, and four-year colleges allow students to learn vital job skills through a hands-on curriculum.

In 2017, Energize Connecticut Support Included:

- More than 1,300 student participants in the Green Sustainable Technical Education Program (GREEN S.T.E.P.) in collaboration with the Connecticut Technical High School System and the Connecticut Business & Industry Association Education and Workforce Partnership
- 9th E-House Opening at Middletown's Vinal Technical High School
- Building Performance Institute Certification of Connecticut Technical High School students and instructors
- Energy Management Degree at Tunxis Community College
- Public Utility Management Degree at Gateway Community College and Southern Connecticut State University

eesmarts™

The **eesmarts** program provides K-12 students with a hands-on clean energy curriculum and helps create an energy-efficient ethic among all school-age students in Connecticut.

2017 Highlights:

- More than 5,000 students received *eesmarts* services including lessons, energy challenge activities and outreach events
- More than 1,200 students participated in the 2017 *eesmarts* Student Contest
- 827 education professionals were trained to implement the *eesmarts* program in classrooms

ENERGIZE CONNECTICUT CENTER

122 Universal Drive North, North Haven

Students and adults can enhance their understanding of energy and energy efficiency by visiting the interactive Energize Connecticut Center, which also hosts events, meetings and seminars for families and professionals.

2017 Highlights:

- Energize Connecticut Center tours and activities presented to 6,628 children and adults
- Launched a new exhibit at the Center, Energy Wise, in October 2017



DEMONSTRATING ECONOMIC BENEFITS THROUGHOUT CONNECTICUT

This list includes energy efficiency and conservation benefits provided to residential, commercial and industrial customers of Eversource, UI, CNG, SCG, the Connecticut Municipal Electric Energy Cooperative (CMEEC), and The Wallingford Electric Division (WED).

Town	Energy Incentives	Annual kWh Savings	Lifetime kWh Savings	Peak Demand kW	Annual CCF Savings	Lifetime CCF Savings	Annual Gallons (Oil & Propane)	Lifetime Gallons (Oil & Propane)	Annual Dollars Saved	Lifetime Dollars Saved	Annual CO ₂ (Tons) Saved
Andover	\$ 37,953	54,304	753,090	6	156	3,112	2,079	40,477	\$ 14,922	\$ 238,321	47
Ansonia	\$ 551,924	1,229,553	11,994,132	137	18,094	348,460	5,687	124,639	\$ 231,754	\$ 2,573,603	728
Ashford	\$ 102,128	244,326	3,457,518	27	_	_	1,881	40,273	\$ 45,259	\$ 666,541	129
Avon	\$ 808,125	1,713,306	19,729,525	313	20,416	417,545	13,026	261,071	\$ 333,566	\$ 4,257,307	1,041
Barkhamsted	\$ 57,839	72,705	844,853	11	110	2,208	1,737	30,436	\$ 16,915	\$ 223,535	52
Beacon Falls	\$ 106,112	121,606	1,390,230	19	1,181	25,269	2,471	47,910	\$ 27,867	\$ 380,536	88
Berlin	\$ 1,333,950	4,193,254	46,407,448	561	19,735	383,560	5,594	109,717	\$ 716,782	\$ 8,052,690	2,083
Bethany	\$ 91,048	180,044	2,025,208	41	_	_	4,631	99,404	\$ 42,604	\$ 606,642	129
Bethel	\$ 1,074,114	2,057,799	25,245,137	438	29,784	342,653	9,063	187,468	\$ 386,164	\$ 4,862,050	1,203
Bethlehem	\$ 96,058	239,721	2,816,073	44	_	_	2,788	57,289	\$ 47,093	\$ 612,721	138
Bloomfield	\$ 1,917,055	4,648,403	50,538,955	684	57,314	1,012,956	24,492	523,459	\$ 875,642	\$ 10,441,628	2,723
Bolton	\$ 126,521	171,331	1,958,584	30	6,659	103,508	3,036	62,279	\$ 42,066	\$ 580,535	150
Bozrah	\$ 29,966	86,535	1,136,525	14	_	_	_	_	\$ 14,131	\$ 181,344	39
Branford	\$ 656,613	2,003,218	20,185,613	268	20,263	423,832	6,483	132,412	\$ 362,126	\$ 3,968,633	1,099
Bridgeport	\$ 5,282,204	14,460,018	160,294,319	1,902	185,432	3,780,654	35,196	782,133	\$ 2,612,856	\$ 31,109,266	8,075
Bridgewater	\$ 18,457	32,642	508,792	3	_	_	1,230	27,227	\$ 8,837	\$ 158,833	28
Bristol	\$ 2,359,030	4,948,843	53,033,280	676	40,951	725,303	25,661	522,232	\$ 914,686	\$ 10,584,883	2,769
Brookfield	\$ 729,257	5,844,794	48,875,924	719	872	17,418	13,495	288,067	\$ 993,605	\$ 8,635,423	2,793
Brooklyn	\$ 90,875	465,697	4,125,218	60	453	8,529	3,238	70,479	\$ 85,646	\$ 866,677	248
Burlington	\$ 99,471	178,984	2,495,470	18	195	3,908	4,964	100,144	\$ 43,540	\$ 687,200	131
Canaan	\$ 512,490	2,069,998	19,546,903	231	_	_	856	20,104	\$ 340,459	\$ 3,176,241	951
Canterbury	\$ 51,141	98,523	1,243,304	8	_	_	1,944	37,998	\$ 21,631	\$ 306,752	67
Canton	\$ 415,680	808,319	8,226,523	102	3,941	67,854	12,532	252,673	\$ 170,937	\$ 2,092,511	524
Chaplin	\$ 27,773	38,311	468,483	4	_	_	2,189	35,818	\$ 12,497	\$ 176,905	36
Cheshire	\$ 712,367	1,789,293	22,303,553	282	15,181	219,223	17,260	365,746	\$ 353,773	\$ 4,793,334	1,073
Chester	\$ 47,056	293,946	3,475,755	24	_	_	1,467	30,120	\$ 52,181	\$ 640,494	148
Clinton	\$ 279,330	860,913	9,764,163	79	1,282	25,514	5,045	103,248	\$ 156,011	\$ 1,874,718	447
Colchester	\$ 286,572	475,471	5,969,083	66	_	_	14,179	318,936	\$ 118,065	\$ 1,862,032	329
Colebrook	\$ 13,471	21,194	260,775	2	_	_	1,066	22,394	\$ 6,501	\$ 105,478	20
Columbia	\$ 171,509	339,738	4,428,090	38	_	_	2,894	54,914	\$ 63,729	\$ 863,161	185
Cornwall	\$ 55,366	93,824	1,252,652	14	_	_	1,644	34,818	\$ 20,008	\$ 299,174	60
Coventry	\$ 246,269	243,296	3,291,008	40	14,757	224,987	7,255	159,096	\$ 72,451	\$ 1,175,360	265
Cromwell	\$ 589,665	2,485,493	26,007,814	301	12,590	214,425	5,572	115,740	\$ 432,023	\$ 4,667,178	1,259
Danbury	\$ 4,078,094	11,993,095	132,456,672	1,640	75,650	1,265,698	40,357	847,865	\$ 2,135,175	\$ 24,658,371	6,339
Darien	\$ 470,841	996,214	11,551,362	148	5,952	119,259	28,510	564,088	\$ 248,813	\$ 3,556,077	780
Deep River	\$ 166,060	559,202	8,287,309	89	630	8,814	2,506	54,160	\$ 98,972	\$ 1,484,487	286
Derby	\$ 365,933	814,910	8,160,969	106	36,700	395,478	5,108	114,794	\$ 177,573	\$ 1,974,970	645
Durham	\$ 133,335	360,731	4,311,977	57	_	_	5,182	107,998	\$ 73,680	\$ 996,028	215
East Granby	\$ 555,662	1,597,210	19,870,696	214	10,915	167,623	6,767	158,545	\$ 289,013	\$ 3,769,143	864
East Haddam	\$ 165,438	386,344	4,391,777	44	94	1,886	5,950	116,550	\$ 80,127	\$ 1,034,801	239
East Hampton	\$ 269,666	716,701	9,075,398	77	10,623	212,468	7,556	155,512	\$ 147,241	\$ 2,077,163	457
East Hartford	\$ 3,038,145	2,693,915	31,052,276	431	469,250	7,358,836	20,392	432,914	\$ 880,862	\$ 12,616,651	4,268
East Haven	\$ 837,088	2,410,025	25,456,554	273	16,660	342,113	8,096	170,937	\$ 430,215	\$ 4,848,165	1,284
East Lyme	\$ 553,203	1,303,586	16,124,805	103	2,033	22,888	9,386	167,391	\$ 241,285	\$ 3,070,264	696
East Windsor	\$ 608,506	1,504,852	17,005,058	204	7,335	151,333	5,168	106,674	\$ 266,450	\$ 3,149,738	778
Eastford	\$ 79,432	211,225	3,165,312	26	_	_	1,569	32,286	\$ 38,964	\$ 597,138	110
Easton	\$ 118,817	339,589	3,218,158	49	1,927	37,986	5,088	111,699	\$ 71,530	\$ 865,231	215
Ellington	\$ 646,744	1,038,641	12,384,190	219	33,357	517,929	8,637	176,372	\$ 221,443	\$ 2,931,398	752
Enfield	\$ 2,175,988	8,692,587	89,346,888	1,172	66,654	1,213,866	16,527	334,963	\$ 1,520,943	\$ 16,271,706	4,533
Essex	\$ 208,502	472,189	6,629,539	44	_	_	1,516	30,221	\$ 81,428	\$ 1,144,001	230
Fairfield	\$ 1,961,712	5,670,591	63,431,944	740	58,054	1,078,440	12,313	267,897	\$ 1,008,440	\$ 11,827,164	3,060
Farmington	\$ 1,570,150	3,150,819	39,445,301	526	31,827	524,303	18,975	373,696	\$ 594,574	\$ 7,817,603	1,809
Franklin	\$ 46,897	101,817	1,280,994	19	_	_	1,125	22,409	\$ 19,834	\$ 268,307	56
Glastonbury	\$ 1,110,297	3,791,505	36,712,735	521	30,546	619,387	10,663	221,771	\$ 674,451	\$ 7,031,353	2,015

Eversource's C&I instant discount lighting and behavior savings are not included.

Town	Energy Incentives	Annual kWh Savings	Lifetime kWh Savings	Peak Demand kW	Annual CCF Savings	Lifetime CCF Savings	Annual Gallons (Oil & Propane)	Lifetime Gallons (Oil & Propane)	Annual Dollars Saved	Lifetime Dollars Saved	Annual CO ₂ (Tons) Saved
	\$ 39,872	91,962	1,163,349	9	_	_	1,713	36,338	\$ 19,900	\$ 289,261	59
	\$ 278,503	367,678	4,226,590	51	5,708	94,953	10,276	205,651	\$ 93,992	\$ 1,343,843	305
•	\$ 2,037,105	2,928,311	35,015,823	546	126,415	2,116,634	14,974	312,457	\$ 623,997	\$ 8,326,942	2,246
	\$ 110,345	383,183	4,148,256	38	_	_	1,207	25,129	\$ 66,013	\$ 733,563	186
	\$ 1,118,425	1,995,410	24,190,035	238	72,893	1,333,768	1,082	22,684	\$ 388,390	\$ 5,089,382	1,356
	\$ 541,533	1,635,018	17,310,500	208	6,939	139,896	16,574	350,274	\$ 319,902	\$ 3,883,232	943
	\$ 172,650	348,695	4,257,241	34	78	1,558	7,015	148,660	\$ 77,002	\$ 1,104,625	223
	\$ 2,683,779	7,218,739	80,235,389	901	80,683	1,281,787	15,403	325,182	\$ 1,288,513	\$ 14,849,305	3,938
	\$ 42,723	93,203	1,226,541	19	_		555	10,991	\$ 16,803	\$ 227,052	48
	\$ 7,841,118	11,260,199	130,212,738	1,345	522,912	7,661,577	24,186	510,566	\$ 2,334,278	\$ 28,924,577	8,528
	\$ 12,220	29,376	357,584	2	-	_	380	7,339	\$ 5,880	\$ 77,987	18
	\$ 91,894	138,829	1,707,289	19	110	2,208	4,457	89,262	\$ 35,467	\$ 528,917	109
	\$ 249,381	408,591	5,320,722	83	7,913	125,341	5,844	127,137	\$ 89,839	\$ 1,321,042	290
	\$ 85,190	140,113	1,640,184	16		-	2,250	35,634	\$ 29,294	\$ 363,335	87
	\$ 896,480	2,545,140	28,889,279	244	87,574	1,031,025	5,405	98,789	\$ 502,460	\$ 5,791,828	1,742
	\$ 77,249	193,547	2,291,701	23	-	-	2,889	59,768	\$ 39,842	\$ 536,122	116
	\$ 99,786	265,211	3,546,373	16	_	_	1,600	32,258	\$ 47,868	\$ 657,858	136
	\$ 440,688	654,831	6,393,972	73	38,020	200,208	7,445	153,692	\$ 159,174	\$ 1,633,415	608
•	\$ 294,260	1,892,944	18,398,606	255	_	_	1,048	21,574	\$ 312,094	\$ 2,997,210	871
	\$ 290,060	806,794	11,204,389	119	183	3,651	8,590	173,746	\$ 156,384	\$ 2,286,485	454
	\$ 30,709	56,295	811,561	3	_	-	1,718	33,519	\$ 14,090	\$ 225,089	43
•	\$ 550,905	1,458,576	16,431,956	157	4,867	97,529	11,469	230,104	\$ 274,845	\$ 3,363,323	810
	\$ 3,182,855	9,539,981	104,962,030	1,219	68,008	1,256,353	24,911	524,720	\$ 1,684,326	\$ 19,341,553	5,019
	\$ 922,836	1,377,638	16,722,844	212	46,720	700,129	10,112	205,335	\$ 291,905	\$ 3,865,414	1,008
	\$ 146,765	324,585	4,107,853	52	_	_	2,233	47,051	\$ 59,370	\$ 789,640	171
	\$ 2,142,044	3,862,707	49,707,085	635	70,344	1,293,111	18,917	373,953	\$ 742,076	\$ 10,127,193	2,380
	\$ 146,264	124,173	1,497,153	22	1,809	36,754	8,774	182,083	\$ 46,768	\$ 790,287	154
-	\$ 89,051	213,478	2,959,765	38	145	2,898	3,442	74,897	\$ 44,792	\$ 688,396	128
	\$ 2,596,122	4,662,140	54,467,494	743	280,458	2,530,073	19,354	395,812	\$ 1,045,282	\$ 12,029,481	4,011
	\$ 2,089,732	6,536,735	73,719,154	815	59,580	1,178,618	14,817	317,832	\$ 1,158,259	\$ 13,698,501	3,486
Monroe	\$ 506,482	1,228,395	14,960,201	177	13,113	229,133	7,735	161,909	\$ 233,340	\$ 3,048,942	713
Montville	\$ 515,496	1,967,401	19,530,666	222	233,676	1,459,231	2,499	50,989	\$ 519,026	\$ 4,536,240	2,323
Morris	\$ 26,338	69,185	1,037,318	5	_	_	1,063	20,113	\$ 14,327	\$ 222,875	42
Naugatuck	\$ 1,048,992	2,562,608	31,954,417	385	16,217	321,674	17,626	322,097	\$ 481,940	\$ 6,298,221	1,453
New Britain	\$ 4,791,678	11,690,857	118,807,008	1,296	173,527	2,728,338	12,526	257,030	\$ 2,086,326	\$ 22,072,854	6,495
New Canaan	\$ 443,632	659,549	8,495,461	138	1,003	20,049	17,793	349,971	\$ 159,246	\$ 2,371,166	479
New Fairfield	\$ 114,554	190,109	2,441,700	32	_	_	5,674	112,080	\$ 47,221	\$ 709,249	146
New Hartford	\$ 304,969	1,614,287	14,122,133	208	114	2,276	3,283	67,572	\$ 273,055	\$ 2,448,030	765
New Haven	\$ 5,696,298	20,324,687	227,269,881	2,525	449,957	5,505,075	14,401	317,356	\$ 3,727,040	\$ 41,976,470	12,102
New London	\$ 874,013	1,583,279	18,915,874	291	55,172	675,357	7,831	142,407	\$ 325,876	\$ 4,014,225	1,138
New Milford	\$ 954,651	3,487,240	33,284,350	413	7,652	84,995	21,391	477,918	\$ 636,673	\$ 6,748,108	1,814
Newington	\$ 1,793,548	5,532,567	64,616,945	762	45,893	832,781	9,192	193,129	\$ 967,081	\$ 11,588,443	2,892
Newtown	\$ 768,716	1,545,629	19,457,313	415	13,755	233,908	14,200	303,382	\$ 304,099	\$ 4,174,152	915
Norfolk	\$ 10,905	31,332	291,092	6	_	_	733	14,568	\$ 7,206	\$ 87,993	21
North Branford	\$ 275,411	892,143	9,360,642	126	5,780	100,508	5,654	120,592	\$ 166,516	\$ 1,925,298	499
North Canaan	\$ 92,671	235,792	2,956,440	25	_	_	621	9,728	\$ 40,275	\$ 499,475	114
North Haven	\$ 1,735,454	6,029,152	70,216,845	611	61,560	798,770	14,717	305,672	\$ 1,076,705	\$ 12,773,231	3,269
North Stonington	\$ 88,680	243,813	3,459,118	28	_	_	1,944	42,422	\$ 45,355	\$ 672,925	132
Norwalk	\$ 3,383,156	14,468,377	136,052,124	1,962	99,360	1,667,452	21,708	450,038	\$ 2,505,549	\$ 24,448,354	7,403
Norwich	\$ 1,078,284	3,233,195	41,127,371	521	_	_	_	_	\$ 527,961	\$ 6,562,283	1,470
Old Lyme	\$ 227,583	325,564	5,008,772	47	_	_	6,296	132,095	\$ 71,113	\$ 1,175,936	204
Old Saybrook	\$ 377,839	1,544,445	16,601,651	211	10,237	120,581	4,681	98,464	\$ 273,896	\$ 3,035,097	806
Orange	\$ 799,876	3,044,908	32,337,975	390	16,772	254,511	12,358	270,085	\$ 546,130	\$ 6,152,421	1,605
Oxford	\$ 255,762	476,278	5,686,755	80	2,580	50,605	9,033	194,579	\$ 105,632	\$ 1,506,516	313
Plainfield	\$ 138,680	318,017	3,893,004	27	3,819	58,533	2,080	42,176	\$ 60,977	\$ 792,576	190
Plainville	\$ 849,179	2,388,872	25,383,381	325	28,822	494,108	7,418	158,785	\$ 434,752	\$ 4,934,585	1,337
Plymouth	\$ 216,544	231,705	2,932,370	32	7,823	134,782	7,693	165,413	\$ 66,149	\$ 1,057,368	230
Pomfret	\$ 71,199	153,598	2,368,185	22	110	2,208	2,354	50,900	\$ 31,884	\$ 524,962	94

Eversource's C&I instant discount lighting and behavior savings are not included.

Town	Energy Incentives	Annual kWh Savings	Lifetime kWh Savings	Peak Demand kW	Annual CCF Savings	Lifetime CCF Savings	Annual Gallons (Oil & Propane)	Lifetime Gallons (Oil & Propane)	Annual Dollars Saved	Lifetime Dollars Saved	Annual CO ₂ (Tons) Saved
Portland	\$ 186,856	197,592	2,721,125	30	951	18,143	6,863	133,105	\$ 52,608	\$ 829,643	166
Preston	\$ 107,539	1,180,780	15,294,166	163	41	822	2,887	60,981	\$ 201,080	\$ 2,614,972	566
Prospect	\$ 189,363	293,416	3,582,749	34	464	8,379	8,108	149,599	\$ 71,408	\$ 1,005,638	216
Putnam	\$ 794,375	1,471,520	17,279,042	198	39,695	682,763	6,489	151,948	\$ 291,176	\$ 3,786,732	976
Redding	\$ 104,789	197,900	2,504,979	30	338	6,017	4,569	94,688	\$ 45,619	\$ 675,000	140
Ridgefield	\$ 984,724	1,464,676	16,194,395	260	52,554	455,228	13,418	277,583	\$ 320,302	\$ 3,773,246	1,123
Rocky Hill	\$ 565,599	1,883,700	20,140,603	324	18,583	349,532	3,148	67,575	\$ 331,732	\$ 3,711,643	1,001
Roxbury	\$ 66,619	75,916	858,611	14	_	_	2,964	57,970	\$ 20,847	\$ 302,331	61
Salem	\$ 30,037	31,225	370,993	4	_	_	2,449	52,127	\$ 12,081	\$ 207,863	39
Salisbury	\$ 69,635	172,586	2,079,172	29	_	_	1,182	24,575	\$ 31,553	\$ 401,840	90
Scotland	\$ 21,689	34,271	385,761	8	_	_	677	10,676	\$ 7,526	\$ 91,999	23
Seymour	\$ 330,116	840,004	10,700,838	113	1,387	27,720	10,273	213,436	\$ 167,589	\$ 2,340,357	494
Sharon	\$ 183,854	413,428	5,190,534	65	_	_	1,189	24,920	\$ 70,901	\$ 899,273	200
Shelton	\$ 1,936,140	5,493,598	62,146,495	592	77,505	1,046,075	17,323	370,161	\$ 1,009,689	\$ 11,885,446	3,136
Sherman	\$ 22,401	47,347	759,235	6	_	_	560	11,026	\$ 9,327	\$ 152,590	26
Simsbury	\$ 1,160,571	1,582,623	20,108,282	229	67,036	1,343,285	17,157	353,110	\$ 362,038	\$ 5,388,786	1,302
Somers	\$ 178,586	229,999	2,913,114	37	48,211	272,893	7,805	170,476	\$ 99,141	\$ 1,189,363	465
South Windsor	\$ 1,513,690	1,716,780	20,526,336	249	170,113	2,340,336	12,562	264,705	\$ 454,936	\$ 6,074,194	1,938
Southbury	\$ 464,382	1,049,170	13,891,479	209	2,814	35,262	14,971	320,671	\$ 216,300	\$ 3,161,875	637
Southington	\$ 1,731,006	5,756,585	58,364,122	869	47,697	946,521	11,782	232,006	\$ 1,012,518	\$ 10,800,963	3,020
Sprague	\$ 12,966	33,182	479,796	3	99	1,987	240	5,626	\$ 6,184	\$ 94,336	18
Stafford	\$ 601,689	864,414	10,798,311	155	519	10,373	18,672	428,848	\$ 194,811	\$ 2,955,113	540
Stamford	\$ 5,769,313	12,829,186	166,343,755	2,308	199,404	3,460,461	50,687	1,104,991	\$ 2,402,115	\$ 32,715,646	7,583
Sterling	\$ 57,503	37,985	464,999	3	_	_	1,616	30,247	\$ 10,810	\$ 160,459	33
Stonington	\$ 869,016	1,686,521	20,353,182	271	10,172	228,162	16,843	345,813	\$ 331,717	\$ 4,433,092	999
Stratford	\$ 2,206,296	5,417,211	60,321,977	621	73,512	1,376,783	13,229	274,462	\$ 982,287	\$ 11,610,238	3,047
Suffield	\$ 217,429	594,524	8,017,734	67	5,399	92,338	6,735	138,615	\$ 120,688	\$ 1,755,287	369
Thomaston	\$ 411,280	975,090	10,655,425	138	15,599	265,047	3,961	82,016	\$ 183,245	\$ 2,165,585	578
Thompson	\$ 133,640	363,080	4,673,221	51	_	-	4,332	84,195	\$ 71,639	\$ 985,782	211
Tolland	\$ 259,715	475,565	5,736,257	79	989	18,639	10,637	223,446	\$ 108,789	\$ 1,568,826	328
Torrington	\$ 2,486,147	5,679,153	63,090,464	752	124,816	1,473,956	15,069	297,277	\$ 1,072,161	\$ 12,201,916	3,496
Trumbull	\$ 1,039,087	2,907,816	30,836,990	408	40,990	601,033	14,450	312,513	\$ 549,466	\$ 6,336,586	1,716
Union	\$ 5,125	12,075	163,939	4	- 07/00	1 700 000	85	1,683	\$ 2,214	\$ 30,957	6
Vernon	\$ 1,710,383	2,913,871	30,320,611	434	87,692	1,728,283	16,673	335,532	\$ 594,894	\$ 7,304,394	2,033
Voluntown	\$ 16,935	54,627	651,229	1107	111 / 0/	1.497.706	422	8,172	\$ 10,124	\$ 127,217	29
Wallingford	\$ 2,543,007	8,318,292	94,785,890	1,104	111,696	1,497,700	249	4,978	\$ 	\$ 16,446,345	4,454
Warren Washington	\$ 30,056 139,641	31,048 317,785	364,042 4,236,493	32	_	_	1,321 3,308	26,999 66,392	\$ 8,836 61,324	\$ 135,088 865,325	28 179
Waterbury	\$ 7,212,723	13,875,671	146,247,663	1,785	259,802	4,982,523	71,985	1,335,047	\$	\$	8,656
Waterford	\$ 7,212,723	3,856,317	35,652,321	488	3,066	60,745	9,324	1,335,047	\$ 658,798	\$ 6,284,323	1,864
Watertown	\$ 887,005	1,572,776	15,521,627	204	62,517	692,564	13,192	279,409	\$ 345,438	\$ 3,878,398	1,218
West Hartford	\$ 3,022,416	4,973,470	55,304,501	727	206,025	3,576,684	15,172	322,701	\$ 1,024,476	12,868,640	3,669
West Haven	\$ 1,863,135	4,717,422	51,217,015	644	197,353	2,199,192	16,024	338,572	\$ 977,015	11,058,589	3,506
Westbrook	\$ 261,040	519,036	6,955,454	89	2,189	43,663	5,486	129,889	\$ 102,181	\$ 1,518,391	293
Weston	\$ 115,146	153,258	1,911,933	29	1,289	24,937	6,030	126,601	\$ 43,269	\$ 687,915	139
Westport	\$ 704,558	1,474,334	18,407,668	249	10,414	210,268	15,188	317,736	\$ 292,547	\$ 4,026,960	878
Wethersfield	\$ 1,073,234	1,086,075	14,432,050	125	66,798	1,220,682	6,320	125,642	\$ 249,864	\$ 3,727,266	964
Willington	\$ 204,476	160,819	2,171,400	25	_	_	5,872	136,400	\$ 43,003	\$ 735,482	119
Wilton	\$ 521,182	931,663	12,501,735	176	20,168	239,735	18,999	373,593	\$ 222,755	\$ 3,269,651	744
Winchester	\$ 297,573	681,678	8,333,609	106	9,123	155,784	3,138	54,586	\$ 127,702	\$ 1,621,453	398
Windham	\$ 1,125,359	2,789,838	27,700,705	387	7,265	132,657	14,308	258,278	\$ 502,284	\$ 5,272,397	1,468
Windsor	\$ 2,310,787	4,150,879	51,029,451	677	81,336	1,251,026	33,856	738,270	\$ 840,694	\$	2,746
Windsor Locks	\$ 1,488,101	3,518,610	42,488,204	435	195,284	2,307,444	9,935	186,916	\$ 762,208	\$ 9,327,846	2,882
Wolcott	\$ 492,079	965,635	12,263,017	106	847	16,425	15,098	295,690	\$ 201,419	\$ 2,814,341	591
Woodbridge	\$ 260,119	1,006,401	11,309,455	164	728	12,060	7,663	159,393	\$ 186,779	\$ 2,269,658	545
Woodbury	\$ 270,436	480,669	6,944,108	100	381	7,191	8,845	185,724	\$ 104,018	\$ 1,643,968	307
Woodstock	\$ 123,838	310,708	4,149,608	51	_	_	3,776	84,232	\$ 61,501	\$ 902,342	174

CONNECTICUT MUNICIPAL ELECTRIC ENERGY COOPERATIVE

BACKGROUND:

The Connecticut Municipal Electric Energy Cooperative (CMEEC), a joint action supply and



transmission agency established by the state's municipal electric utilities (MEUs), is owned by the Cities of Groton and Norwich, the Borough of Jewett City, South and East Norwalk, and the Bozrah Light and Power Company. In addition, CMEEC provided all power requirements to the Mohegan Tribal Utility Authority. In 2017, the MEUs provided a fully integrated portfolio of energy efficiency initiatives that resulted in an 844 kilowatt (kW) coincident summer peak demand reduction and 5,222 megawatt hours (MWH) in annual energy savings, at a cost of about 3.5 cents per lifetime kilowatt hours (kWh).

Assistance to (Customers
\$	29,191
	375,185
	11,760
	1,042,682
	194,346
	129,501
\$	1,782,665

2017 CMEEC PROGRAM HIGHLIGHTS

This chart details the incentives and rebates provided to MEU residential, commercial and industrial customers in 2017.



CO₂ Emissions Reduced: **5,648 Tons**



 NO_X Emissions Reduced: **1.6 Tons**



 SO_X Emissions Reduced: **3.5 Tons**



SAVINGS: Annual: **\$575,282** Lifetime: **\$7,524,904**



kWh SAVINGS: Annual: **5.2 Million** Lifetime: **68.8 Million**



Customers Served: **4,456**

2017 CMEEC SUMMARY

Program	Program Budget 2017	A	ctual Utility Costs 2017	% of Budget Spent	Proj. Annual Savings (kWh)	Annual Energy Savings (kWh)	% of Annual kWh Saved	Lifetime Savings (kWh)	2017 Proj. kW Impact	Actual kW Impact	% of kW Impact Achieved	Summer Peak kW Demand Reduction
Residential												
Home Energy Savings Program	\$ 637,200	\$	537,495	84%	285,080	347,779	122%	4,228,139	216	263	122%	38
Efficient Products												
Lighting	\$ 318,600	\$	59,462	19%	1,468,040	306,391	21%	2,827,819	1,387	289	21%	46
Appliances	318,600		172,442	54%	66,000	195,924	297%	3,994,915	26	78	297%	20
Subtotal — Residential	\$ 1,274,400	\$	769,398	60%	1,819,120	850,094	47%	11,050,873	1,629	631	39%	104
Commercial												
Commercial New Construction	\$ 19,100	\$	3,292	17%	0	72,972	NA*	1,068,453	0	17	NA*	2
Equipment Replacement	458,800		221,943	48%	1,088,920	242,951	22%	3,492,987	294	66	22%	35
C&I Existing Facility Retrofit	1,433,700		1,377,864	96%	3,286,810	3,979,378	121%	51,706,045	794	961	121%	703
Subtotal — Commercial	1,911,600		1,603,100	84%	4,375,730	4,295,301	98%	56,267,485	1,088	1,043	96%	740
Renewables	400,000		38,797	10%	367,670	76,548	21%	1,530,960	69	14		0
Total — All Programs	\$ 3,586,000	\$	2,411,295	67%	6,562,520	5,221,943	80%	68,849,318	2.786	1.688	61%	844

^{*}Not applicable due to no projected annual savings for kW.

WALLINGFORD ELECTRIC DIVISION

BACKGROUND: The Wallingford Electric Division (WED) is a municipal electric utility (MEU) that serves approximately 25,000 residential and commercial customers in the town of Wallingford and the Northford section of North Branford. The energy efficiency efforts of WED have helped our customers to lower their energy costs and reduce energy use, as well as positively impact our natural environment by saving precious natural resources and cutting down on pollution. In 2017, WED's energy efficiency efforts resulted in a 712 kilowatt (kW) coincident summer peak demand reduction and 5,066 megawatt hours (MWh) in annual energy savings, at a cost of about 2.5 cents per lifetime kilowatt hours (kWh).



2017 WED PROGRAM HIGHLIGHTS



CO₂ Emissions Reduced: **8,343 Tons**



 NO_X Emissions Reduced: **4.7 Tons**



 SO_X Emissions Reduced: **7.5 Tons**



SAVINGS: Annual: **\$555,800** Lifetime: **\$7,264,528**



kWh SAVINGS: Annual: **5.0 Million** Lifetime: **68.4 Million**



Customers Served: **6,065**

2017 WALLINGFORD ELECTRIC DIVISION SUMMARY

Program	Program Budget 2017	A	ctual Utility Costs 2017	% of Budget Spent	Proj. Annual Savings (kWh)	Annual Energy Savings (kWh)	% of Annual kWh Saved	Lifetime Savings (kWh)	2017 Proj. kW Impact	Actual kW Impact	% of kW Impact Achieved	Summer Peak kW Demand Reduction
Residential												
Home Energy Savings Program	\$ 621,460	\$	649,793	105%	47,000	497,437	1058%	6,280,324	34	359	1058%	53
Efficient Products												
Lighting	\$ 207,153	\$	66,200	32%	1,892,000	719,000	38%	7,176,262	1,787	679	38%	109
Other	93,219		168,009	180%	79,000	77,797	98%	1,117,987	41	41	98%	11
Subtotal — Residential	\$ 921,832	\$	884,001	96%	2,018,000	1,294,234	64%	14,574,572	1,863	1,079	58%	172
Commercial												
Equipment Replacement	\$ 440,201	\$	195,367	44%	2,083,000	1,507,664	72%	22,614,960	132	95	72%	49
C&I Existing Facility Retrofit	828,613		369,968	45%	3,297,000	2,015,516	61%	26,201,708	801	490	61%	491
Subtotal — Commercial	1,268,814		565,335	45%	5,380,000	3,523,180	65%	48,816,668	933	585	63%	540
Renewables	103,577		218,541	211%	0	248,777	-	4,975,542	0	213	0%	0
Total — All Programs	\$ 2,294,223	\$	1,449,337	63%	7,398,000	5,066,191	68%	68,366,782	2,796	1,877	67%	712

ACTIVITIES IN 2017 PRODUCED SUBSTANTIAL ECONOMIC AND ENVIRONMENTAL BENEFITS FOR RESIDENTS, BUSINESSES AND MUNICIPALITIES









	Annual Savings (millions)	Lifetime Savings (millions)	Number of Projects & Rebates	Annual CO ₂ Emissions Reduced (tons)	Annual MMBTUs Reduced (thousands)
Home Energy Solutions	\$ 10.81	\$ 164.86	65,739	34,296	384.00
Home Energy Solutions — Income Eligible	\$ 6.39	\$ 98.32	28,312	21,255	250.39
Retail Products	\$ 19.94	\$ 159.36	693,166	48,046	360.56
Residential New Construction	\$ 1.18	\$ 22.93	3,391	3,607	45.02
Residential Behavior	\$ 4.39	\$ 11.25	593,323	11,944	111.83
Small Business Energy Advantage	\$ 5.90	\$ 73.74	1,797	19,491	157.00
Existing Buildings (Mid- and Large-Sized Customers)	\$ 21.26	\$ 237.48	3,031	78,132	729.41
New Construction/Equipment (Business)	\$ 4.88	\$ 73.52	1,232	20,016	207.29
Total	\$ 74.75	\$ 841.45	1,389,991	236,789	2,245.50

PROTECTING CONNECTICUT'S ENVIRONMENT

	Estima	ated Annual Saving	s 2017	Estimated Lifetime Savings 2017						
Air Emissions	Electric	Gas	Fuel Oil and Propane	Electric	Gas	Fuel Oil and Propane				
SO _X Tons	34	0	82	364	3	1,666				
NO _X Tons	45	32	12	478	460	249				
CO ₂ Tons	181,420	40,784	14,584	1,916,354	586,750	298,800				





Photos courtesy of DEEP

2017 RESIDENTIAL PROGRAM SAVINGS



SAVINGS:

Annual: **\$42.7 Million**Lifetime: **\$456.7 Million**



ENERGY SAVINGS

kWh = Electricity
Annual: **188.3 Million**Lifetime: **1.7 Billion**CCF = Natural Gas
Annual: **3.2 Million**

Lifetime: **57.7 Million**

Gallons = Fuel Oil and Propane

Annual: **1.4 Million** Lifetime: **29.3 Million**



Customers Served: **1,383,931**



CO₂ EMISSIONS REDUCED: Annual: **119,149 Tons** Lifetime: **1.4 Million Tons**

2017 COMMERCIAL & INDUSTRIAL PROGRAM SAVINGS



SAVINGS:

Annual: **\$32.0 Million**Lifetime: **\$384.7 Million**



ENERGY SAVINGS

kWh = Electricity

Annual: **210.7 Million**Lifetime: **2.5 Billion**CCF = Natural Gas
Annual: **3.6 Million**

Lifetime: 40.1 Million



Projects and Rebates:

6,060



CO₂ EMISSIONS REDUCED: Annual: **117,640 Tons**



COMBINED 2017 RESIDENTIAL, COMMERCIAL & INDUSTRIAL PROGRAM SAVINGS



SAVINGS:

Annual: \$74.7 Million Lifetime: \$841.4 Million



ENERGY SAVINGS

kWh = Electricity Annual: **399.0 Million** Lifetime: **4.2 Billion**

CCF = Natural Gas Annual: **6.8 Million** Lifetime: **97.8 Million**

Gallons = Fuel Oil and Propane

Annual: **1.4 Million** Lifetime: **29.3 Million**



Projects and Rebates:

1,389,991



AIR EMISSIONS REDUCED:

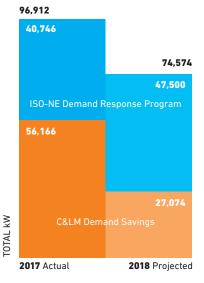
 CO_2 : **2.8 Million Tons** (Lifetime) SO_X : **2,033 Tons** (Lifetime) NO_X : **1,187 Tons** (Lifetime)

2017 ACTUAL SPENDING / 2018 BUDGET

Energy Efficiency Programs (Does not include municipal power companies)		2017 Actuals Electric		2018 Plan Electric		2017 Actuals Natural Gas	2018 Plan Natural Gas
RESIDENTIAL							
Residential Retail Products	\$	14,244,642	\$	7,922,567	\$	_	\$ _
Residential New Construction		3,368,337		2,475,638		1,700,295	2,120,689
Home Energy Solutions — Core Services		18,667,430		13,126,632		7,383,109	6,932,840
Home Energy Solutions — HVAC, Water Heaters		5,170,593		3,903,205		4,726,836	5,481,514
HES Income Eligible		20,149,667		15,459,283		12,728,282	10,288,091
Residential Behavior		3,026,317		500,000		646,133	472,277
Subtotal Residential	\$	64,626,986	\$	43,387,325	\$	27,184,655	\$ 25,295,412
COMMERCIAL & INDUSTRIAL							
Energy Conscious Blueprint	\$	8,998,699	\$	7,902,345	\$	4,855,611	\$ 6,934,336
Energy Opportunities		34,504,314		30,599,932		6,287,789	4,242,034
Business & Energy Sustainability (O&M, RetroCx, BSC, PRIME)		2,025,239		2,558,823		1,274,026	1,294,560
Small Business Energy Advantage		20,642,007		14,946,598		1,143,240	804,784
Subtotal C&I	\$	66,170,259	\$	56,007,698	\$	13,560,667	\$ 13,275,714
OTHER—EDUCATION, ENGAGEMENT & FINANCING							
Educate the Public	\$	2,476,267	\$	841,464	\$	541,120	\$ 212,405
Customer Engagement		1,527,882		1,478,000		283,457	211,500
Educate the Students		909,305		285,754		161,849	73,020
Educate the Workforce		222,321		164,417		48,502	35,805
Residential Loan Program (Includes ECLF and OBR)		685,302		593,723		255,327	252,667
C&I Financing Support		4,158,335		2,500,000		22,539	206,346
Research, Development & Demonstration		269,786		313,390		51,601	125,000
Subtotal Education, Engagement & Financing	\$	10,249,198	\$	6,176,748	\$	1,364,395	\$ 1,116,743
OTHER—LOAD MANAGEMENT							
ISO Load Response Program	\$	2,387,351	\$	1,907,000	\$	_	\$ _
Residential Demand Response		1,535,834		1,514,000		_	_
C&I Demand Response		803,274		540,082		_	_
Subtotal Load Management	\$	4,726,459	\$	3,961,082	\$	_	\$ _
OTHER—ADMINISTRATIVE & PLANNING							
Administration	\$	1,272,432	\$	981,206	\$	395,340	\$ 406,970
Marketing Plan		549,336		130,427		184,124	47,835
Planning		877,643		657,967		399,569	352,958
Evaluation Measurement and Verification		2,413,688		1,279,032		600,000	652,569
Evaluation Administrator		212,000		224,000		67,348	56,001
Information Technology		813,993		1,951,185		281,239	351,316
Energy Efficiency Board Consultants		522,263		382,721		134,266	95,679
Audits — Financial and Operational		66,483		84,000		25,458	30,000
Performance Management Incentive (PMI)		10,435,266		5,154,458		2,454,663	1,867,526
Admin/Planning Expenditures	\$	17,163,105	\$	10,844,996	\$	4,542,007	\$ 3,860,854
TOTAL EE BUDGET	\$	162,936,008	\$	120,377,849	\$	46,651,724	\$ 43,548,723
STATE DIVERSION OF FUNDS	s	31,750,000	s	63,500,000	s	<u> </u>	\$

LOAD MANAGEMENT & PEAK DEMAND

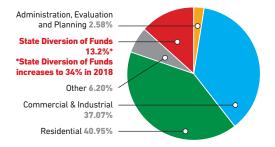
Load management programs reduce peak demand and have direct impact on consumers, as reductions in needed capacity can result in lower electricity prices and also reduce the federally mandated congestion charges on electric bills.

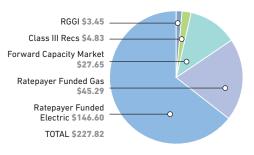


Peak Demand Savings available from the Energy Efficiency Fund, CMEEC, Town of Wallingford and ISO-New England Programs (in kW)

2017 EFFICIENCY PROGRAM SPENDING

Energy efficiency programs are administered to maximize the costeffectiveness and impacts of energy efficiency and load management activities.





2017 EFFICIENCY PROGRAM FUNDING

Funding for energy efficiency programs comes from many sources. Funding reflects 2017 revenues received. (In Millions)

CONNECTICUT ENERGY EFFICIENCY BOARD

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The legislation that created the Energy Efficiency Fund and Board is Conn. Gen. Stat. § 16-245m, as amended by P.A. 13-5 § 13 and 13-298 § 16. The legislation that created the conservation and load management fund for municipal electric companies is Conn. Gen. Stat. § 7-233y.

More information on these laws can be found at EnergizeCT.com/about/CEEF

Energize Connecticut helps you save money and use clean energy. It is an initiative of the State of Connecticut, the Connecticut Green Bank, Eversource, UI, SCG and CNG, with funding from a charge on customer energy bills. Information on energy-saving programs can be found at EnergizeCT.com or by calling 877.WISE.USE.

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