

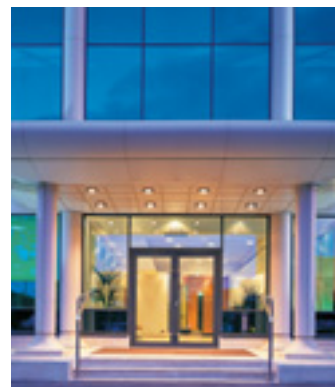
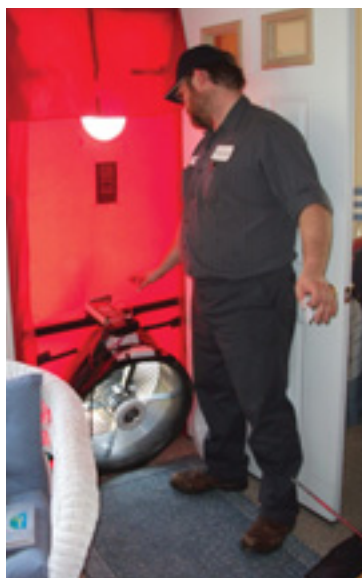


CONNECTICUT
ENERGY EFFICIENCY FUND

www.CTEnergyInfo.com

2011 Report of the Energy Efficiency Board

March 1, 2012



The Year in Review: Expanding Our Commitment to Connecticut's Environment



A Message from the Chair



On behalf of the Energy Efficiency Board, I am pleased to deliver the 2011 Programs and Operations Report to the Connecticut Legislature. Within this annual report are the details of how the Energy Efficiency Fund has fulfilled its primary objective to advance the efficient use of energy for all Connecticut residents.

In 2011 Connecticut was once again ranked among the top ten states in the nation for energy efficiency policies and implementation. This is a tribute to the willingness of the state's residents and business owners to embrace our commitment to a more energy-efficient future and an endorsement of the policies and legislation that created the Connecticut Energy Efficiency Fund in 1998. Because Connecticut has such a large and active portfolio of successful programs in place, the state was the recipient of American Recovery and Reinvestment Act (ARRA) funding to supplement these award-winning energy-saving programs.

The energy-saving programs offered through the Energy Efficiency Fund play a vital economic role for Connecticut. For every \$1 spent on energy efficiency, Connecticut receives electric, gas and fuel oil system benefits valued at nearly \$3. This return on investment demonstrates that Energy Efficiency Fund programs are a powerful economic incentive: they reduce customer costs, generate jobs, and make the state's businesses more competitive. Together with other initiatives being taken across the state, the Energy Efficiency Fund's accomplishments are helping to realize Governor Malloy's goal to make energy cheaper, cleaner and more reliable for Connecticut residents.

As we begin our work for 2012, we are eager to pursue opportunities to increase the effectiveness and scope of Connecticut's energy efficiency investments. Over the coming year we anticipate collaborating with the Legislature and stakeholders to introduce innovations such as a rolling multi-year budget for conservation and load management programs, a more coherent approach to marketing the state's efficiency programs, a gradual increase in funding to achieve all cost-effective energy efficiency, and a shift from a subsidy-based model to one which involves significant third party finance. Taken together, we think these innovations will help to maintain Connecticut as a national leader.

With these exciting opportunities in mind, the Energy Efficiency Board looks forward to working cooperatively with legislators and all of Connecticut's energy stakeholders to continue the state's leadership position in energy efficiency.

Sincerely,

Daniel C. Esty
Commissioner,
Connecticut Department of Energy and Environmental Protection

Connecticut Energy Efficiency Fund 2011 Achievements and Highlights Summary

Connecticut is a nationally recognized leader in implementing high-quality energy efficiency programs.

Since 2000, the American Council for an Energy-Efficient Economy (ACEEE) has ranked Connecticut as one of the top states for energy efficiency. In the ACEEE's 2011 State Energy Efficiency Scorecard, Connecticut ranked eighth in the nation. This top-tier ranking indicates that Connecticut's energy efficiency programs are national models to be emulated, but also provides an incentive to aim higher with ambitious program changes in the coming year. The Department of Energy also recognized the Fund with its Sustained Excellence Award for participation in the Northeast Retail Products Initiative.

Energy Efficiency Fund 2011 Residential Program Savings



Customers Served

714,580



CO₂ Emissions Reduced

146,788 Tons (Annual)



Annual Savings

\$47.8 Million



Lifetime Savings

\$331.8 Million



Energy Savings (kWh = Electricity, CCF = Natural Gas, Gallons = Fuel Oil)

kWh Annual
238.0 Million

CCF Annual
1.7 Million

Gallons Annual
1.3 Million

kWh Lifetime
1.2 Billion

CCF Lifetime
28.5 Million

Gallons Lifetime
21.6 Million



MMBTUs (MMBTU = 1 Million British Thermal Units)

Annual
1.2 Million

Lifetime
10.2 Million

Energy Efficiency Fund 2011 Commercial & Industrial Program Savings



Customers Served

4,263



CO₂ Emissions Reduced

97,303 Tons (Annual)



Annual Savings

\$24.2 Million



Lifetime Savings

\$314.0 Million



Energy Savings (kWh = Electricity, CCF = Natural Gas, Gallons = Fuel Oil)

kWh Annual
156.0 Million

CCF Annual
3.1 Million

Gallons Annual
9 Thousand

kWh Lifetime
2.0 Billion

CCF Lifetime
52.0 Million

Gallons Lifetime
126 Thousand



MMBTUs (MMBTU = 1 Million British Thermal Units)

Annual
0.9 Million

Lifetime
12.1 Million

State and National Visibility

In 2011, the Energy Efficiency Fund was represented at more than 450 public events. On the national stage, Fund administrators participated in conferences with the ACEEE, Department of Energy, the World Energy Engineering Congress (WEEC), the Consortium for Energy Efficiency (CEE), and the Gas Technology Institute (GTI). These national events offer a platform for Fund representatives to share their expertise through panels, working groups, presentations and published papers.

Energy Efficiency Fund program participants were also the stars of a three-part television series, "Empowering Connecticut", produced in partnership with CPTV. Residential, commercial and municipal programs were featured in a fast-paced documentary style format. The episodes aired in May and were repeated in the fall.



Our Mission:

To advance the efficient use of energy.

To reduce air pollution and negative environmental impacts.

To promote economic development and energy security.

About the Energy Efficiency Fund

Created in 1998 with the purpose of helping small and large businesses, homeowners and renters, and state and local governments, the Energy Efficiency Fund supports an impressive portfolio of programs and initiatives designed to promote, encourage and facilitate the adoption of energy-efficient technologies and behaviors. These programs and their results are detailed in this report.

The Energy Efficiency Board (EEB) is an appointed group of 14 members who represent private and public entities who serve and meet year-round. These members reflect a cross section of interests, providing representation for residential (including limited income), business, community (including not-for-profit) and municipal consumers. The EEB is assisted by consultants who are nationally recognized as experts in their respective fields. The purpose of the EEB is to advise and assist the Fund's administrators in both the development and implementation of Energy Efficiency Fund programs and initiatives. The Energy Efficiency Fund is administered by the Connecticut Light and Power Company, The United Illuminating Company, Connecticut Natural Gas Corporation, The Southern Connecticut Gas Company and Yankee Gas Services Company. The Energy Efficiency Board also oversees the energy efficiency programs of the Connecticut Municipal Electric Energy Cooperative (CMEEC).

Under the direction of the EEB, programs undergo evaluations on a regular basis that are conducted by independent third-party evaluators. The purpose of impact evaluations is to verify that the reported savings are accurate and also to help support continuous improvement in program performance. Savings from programs are reported to regulatory bodies and used to generate additional funding from both the ISO-NE Forward Capacity Market and Connecticut Class III Renewable energy markets and, therefore, evaluations are a critical aspect of ensuring that program results are reliable and accurate.



Connecticut Public Act 11-80, An Act Concerning the Establishment of the Department of Energy and Environmental Protection and Planning for Connecticut's Energy Future, was passed in June 2011 and included provisions that have changed the structure of the Energy Efficiency Board. The Department of Public Utilities Control (DPUC) was renamed the Public Utilities Regulatory Authority (PURA) and was merged with the Department of Environmental Protection. The commissioner of the new entity, the Department of Energy and Environmental Protection (DEEP), is named as the permanent chair of the Energy Efficiency Board. The utility administrators retain their seats on the EEB, but as non-voting members. Beyond structural changes the Act also sets ambitious savings targets, such as reducing state building energy use by 10 percent by 2013 and requires the utility administrators to assess the steps needed to achieve 80 percent weatherization in residential homes in Connecticut by 2030. The EEB and the Fund's administrators began addressing those directives, and others, in 2011 and are escalating those efforts in 2012.

Customer Segments

Programs supported by the Energy Efficiency Fund benefit all customer segments.

Summary of Energy Savings by Customer Sector

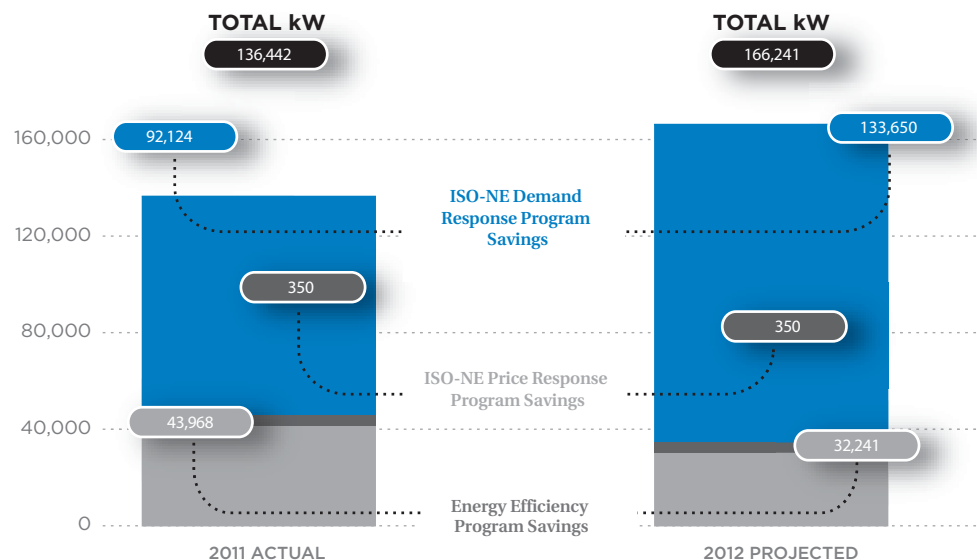
(Energy Savings expressed in millions of kWh, thousands of CCF and thousands of gallons)
 (Dollar savings in millions of dollars)

Customer Sector	Annual Savings 2011						Lifetime Savings 2011					
	Electric		Natural Gas		Oil		Electric		Natural Gas		Oil	
	Energy Saved	Dollars Saved	Energy Saved	Dollars Saved	Energy Saved	Dollars Saved	Energy Saved	Dollars Saved	Energy Saved	Dollars Saved	Energy Saved	Dollars Saved
Residential Limited-Income	23	\$3.81	931	\$1.16	447	\$1.71	226	\$38.11	14,470	\$18.17	6,134	\$23.50
Residential Non Limited-Income	215	\$36.86	752	\$0.93	868	\$3.33	1,028	\$175.28	14,073	\$17.44	15,486	\$59.31
Commercial & Industrial	156	\$22.31	3,125	\$1.83	9	\$0.03	1,975	\$283.30	51,985	\$30.21	126	\$0.48
Totals	394	\$62.98	4,808	\$3.92	1,324	\$5.07	3,229	\$496.69	80,528	\$65.82	21,746	\$83.29

Load Management and Peak Demand

The Energy Efficiency Fund is also committed to load management. Load management programs reduce peak demand and have direct impact on consumers, as reductions in needed capacity can result in lower electricity prices to the wholesale market (referred to as the Demand-Reduction-Induced Price Effect or DRIFE), and also reduce the federally mandated congestion charges on electric bills.

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





**“I just think it’s a wonderful service.
In fact, I recommended it to one of my neighbors,
who also signed up, and she’s very happy with it.”**

Veronica Crook

Home Energy SolutionsSM

Home Energy Solutions (HES) is the flagship residential program available to all Connecticut residents. The HES program enables consumers to save energy and money in today’s challenging economy by providing innovative energy efficiency solutions. As part of Connecticut’s growing green-collar job force, there are now 26 authorized HES contractors who diagnose inefficiencies in the home and provide energy efficiency services.

The HES program is a “whole-home solution” designed to reduce energy consumption and costs for residential consumers. Building Performance Institute Inc. (BPI)-trained technicians perform an energy assessment of the home and provide a variety of on-the-spot efficiency and weatherization measures that enable consumers to save both energy and money over time. Upon performing the home energy assessment, specialists make improvements to make homes weather-tight, replace incandescent light bulbs with more efficient compact fluorescent light bulbs, install water-saving devices, and provide money-saving rebates for additional energy saving upgrades.



The energy assessment includes diagnostic tests to assess air leakage throughout the home. Critical leaks are located with test equipment and professionally sealed. This air sealing technique is one of the quickest and least expensive ways to improve efficiency and lower heating and cooling bills. For example Veronica Crook, a senior citizen living in a two-story condominium in Litchfield, is expected to save approximately \$500 annually as a result of participating in the HES program. HES technicians sealed critical leaks, installed door sweeps to block the flow of cold air and switched many of her incandescent light bulbs to compact fluorescent light bulbs. In addition, the technicians lowered her water-heating costs by installing efficient faucet aerators and showerheads, optimizing the hot water heater thermostat setting, and installing insulation on hot water pipes. HES technicians review the work at a “kitchen table” wrap-up to ensure homeowners understand the services performed and the resulting energy savings. The technicians present recommendations for further improvements that will provide additional savings. They review the available appliance and insulation rebates, renewable energy options, tax credits and potential financing opportunities to encourage these additional investments. The technicians use a field service tool that calculates the savings, cost effectiveness and loan payments associated with implementing the follow-up recommendations.

HES technicians sealed airleaks under steps and throughout the basement.





Patricia Cook of North Haven enjoyed similar results from participating in the HES program. “I’m not a big energy user; I hang my clothes outside during warmer weather, turn the lights off when I’m not using them, and run the dishwasher only when it’s full,” Cook said. “But, after the HES contractor came into my home for the assessment, I soon learned that I was wasting energy from air leaks throughout my house in places that I never even considered.” The HES technicians identified air leaks in her staircase, attic fan, cellar, and heating and cooling vents. The technicians sealed those areas along with leaks in the duct system, around windows, and in and around the electrical and plumbing service entries throughout the exterior walls. The air sealing measures, plus replacement of incandescent light bulbs with CFLs, will save Ms. Cook approximately 1,400 kilowatt-hours and nearly \$300 annually.

“It really is a win-win situation, and residents should know that they are going to save money while learning about the way they use energy in their homes.”

Patricia Cook

Home Energy Solutions-Home Performance (HES-HP)

More and more residential consumers are opting to improve their homes with comprehensive retrofits. HES-HP can address multiple, simultaneous upgrades such as insulation, heating and cooling systems, and custom measures. The program allows customers to develop custom energy efficiency projects which can be submitted for rebates. Connecticut’s program is now endorsed by the U.S. Environmental Protection Agency and U.S. Department of Energy through their national campaign, Home Performance with ENERGY STAR®.



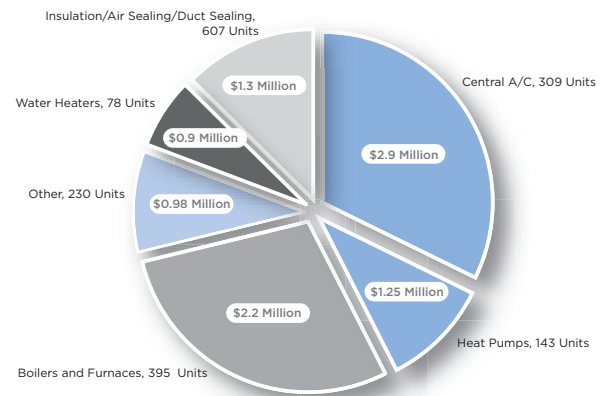
Blower door test to assess airflow.

Residential Financing Program

In June 2011, the successful 2010 residential financing pilot became a full initiative in partnership with the Connecticut Housing Investment Fund (CHIF). The new Residential Financing Program enables Connecticut residents to finance home energy efficiency improvements recommended through the HES program with low-interest loans that can be repaid on their electric bills. This financing program is designed to complement existing rebate programs by making efficiency investments with higher upfront costs affordable to all customers. Loans for qualified improvements and equipment replacements were made for projects costing \$2,500 to \$20,000 at below market interest rates of 2.99 percent and 4.99 percent. In 2012, a new loan pilot program will provide zero percent interest loans for customers making insulation upgrades costing \$1,000 to \$2,500.

2011 Residential Financing

Energy efficient improvements financed by AFC (pilot program) and CHIF totaled over \$9.5 million dollars and 792 loans in 2011.



2011 Home Energy Solutions



Customers Served
29,963



CO₂ Emissions Reduced
28,584 Tons (Annual)



Annual Savings
\$8.8 Million



Lifetime Savings
\$114.2 Million



MMBTUs
Annual
275.4 Thousand

Lifetime
4.1 Million



Energy Savings
kWh Annual
27.2 Million
kWh Lifetime
244.7 Million

(kWh = Electricity, CCF = Natural Gas, Gallons=Fuel Oil)

CCF Annual
610.9 Thousand

CCF Lifetime
10.7 Million

Gallons Annual
862.0 Thousand

Gallons Lifetime
15.4 Million



“This is a program that everyone should know about. It helped put money in our pockets.”

Francis Laudano

Home Energy Solutions–Income Eligible (HES-IE)

Since its inception, the Energy Efficiency Fund has made assistance to Connecticut families with limited incomes a high priority. For these families, energy bills often represent a disproportionate percentage of their expenses.

We are committed to serve this vital need in Connecticut through our partnerships with social service agencies and community groups throughout the state. This network of agencies offers direct access to this population and promotes the Home Energy Solutions - Income Eligible program to its client base. While we continue to serve income eligible residents directly, our partnerships have also proven successful in identifying additional participants who can benefit from the program.

In some cases, the Energy Efficiency Fund covers all the costs associated with energy projects. In other cases, we partner with the Connecticut Department of Social Services (DSS) to leverage funding for projects that are cost-shared. This enables us to provide more comprehensive services and helps extend our reach to more eligible households.

While HES-IE offers services similar to the HES core program, HES-IE is free to eligible customers who may also receive additional services. As in the HES core program, energy specialists assess the home and perform a range of services that may include installing energy efficient lighting, caulking cracks/leaks around doors and windows, and installing insulation. All weatherization measures are designed to reduce heating and cooling losses. Additional efficiency steps include installing water-saving faucet aerators and showerheads, and upgrading appliances and heating systems.

To understand how the program works, consider the Mutual Housing Authority of Southwestern Connecticut, Inc.’s (MHA) Parkside Gables apartment complex in Stamford. Parkside Gables is a below market residential complex of 70 townhouses. Tenants are mostly long term, limited income families. Parkside Gables was able to leverage funding from the Energy Efficiency Fund with a U.S. Department of Energy block grant to manage energy efficiency projects. Parkside utilized the funding to accomplish weatherization and lighting improvements throughout the complex, and also installed natural gas boiler/hot water combination units in each of the apartments. The Energy Efficiency Fund’s long history with MHA helped them find a solution that was outside of the usual parameters of the program. Incentives of approximately \$200,000 will save the complex over 610,000 lifetime ccf (natural gas) and more than 300,000 lifetime kilowatt-hours. The total energy cost savings for the complex is estimated at \$47,000 per year and more than \$835,000 over the lifetime of the weatherization measures and installed equipment.

The Energy Efficiency Fund also leverages other partnership/cost sharing opportunities. When calling **877-WISE USE** to apply for HES-IE, customers are evaluated to see if they qualify for the Connecticut Efficient Healthy Homes Initiative (CTEHHI). Through this federally funded grant program in partnership with various Connecticut social services providers, home owners and renters alike receive free HES-IE services and an evaluation of any environmental hazards that may be present in their home.

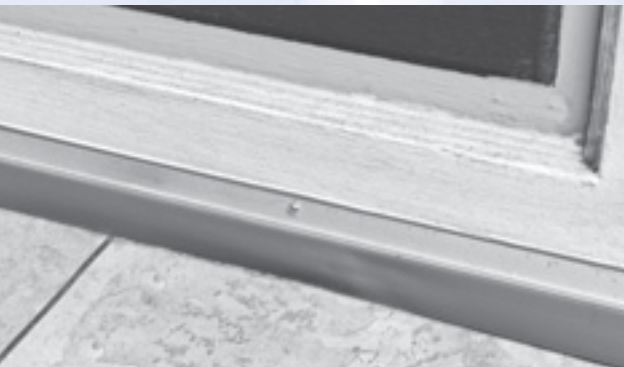
Environmental hazards may include carbon monoxide, lead, mold, asbestos, and other issues that contribute to poor indoor air quality. While addressing the energy matters, the hazards checklist is reviewed and the home is inspected. Any issues of concern are reviewed with the resident and addressed as part of the program or referred to the appropriate service partners to assure the home's safety. In 2011 roughly 200 homes were enrolled in the CTEHHI program and 138 initial assessments were completed. The customer's participation is not complete until all issues have been resolved according to federal guidelines within the program.



Ensuring proper ventilation during the CTEHHI service.

“We’re starting to see a big difference in our bills already.”

Cheryl Fellnor



The HES-IE program also serves individual families and residences, such as the home rented by Francis Laudano and Cheryl Fellnor of Rocky Hill. Their old New England farmhouse was drafty and costly to heat. After hearing about the HES-IE program from a friend, they called 877-WISE-USE and were connected to an authorized program contractor. After conducting a home assessment that included a blower door test to determine air leakage in the home, certified technicians installed weather stripping, door sweeps, energy-efficient lighting, and efficient faucet aerators. The couple will save approximately 9,000 kilowatt-hours, 500 gallons of fuel oil, and \$3,200 over the lifetime of these improvements.

In 2011, both the HES and HES-IE programs were available to all qualified residents, no matter how their homes were heated. In 2011, this fuel-blind approach for HES was partially supported through funding from the American Recovery and Reinvestment Act (ARRA) and proceeds from the Regional Greenhouse Gas Initiative (RGGI). ARRA money earmarked for HES is expected to be exhausted in March 2012. While this approach enabled the Fund to offset some of the program costs in 2011, equitable funding for residential consumers who heat with fuel oil continues to be a challenge that is being addressed by DEEP, PURA, and the EEB in 2012.

2011 Home Energy Solutions – Income Eligible



Customers Served
20,221



CO₂ Emissions Reduced
22,926 Tons (Annual)



Annual Savings
\$6.7 Million



Lifetime Savings
\$79.8 Million



MMBTUs
Annual
235.9 Thousand

Lifetime
3.1 Million



Energy Savings
kWh Annual
22.9 Million
kWh Lifetime
226.5 Million

(kWh = Electricity, CCF = Natural Gas, Gallons=Fuel Oil)

CCF Annual
931.4 Thousand
CCF Lifetime
14.5 Million

Gallons Annual
446.9 Thousand
Gallons Lifetime
6.1 Million



“The best things about our new house are the things you can’t see, like high performance insulation and geothermal. I would recommend this program.”

Robin Whitright

Residential New Construction

The Residential New Construction (RNC) program was developed to integrate efficient design and technologies in residential construction projects. The RNC program provides incentives to builders and/or homeowners to design new homes that incorporate advanced energy-efficient technologies during the design phase.

The RNC program challenges architects and builders to move to a new, higher level of efficiency in construction — low load homes with superior insulation throughout that result in very low energy consumption and low heating and cooling peak loads. This method of building creates an opportunity for the use of space conditioning systems with substantially reduced capacity and reduced energy costs. Incentives are available for energy efficiency measures such as high performance insulation, high efficiency natural gas and electric water heaters, geothermal heat pumps and other HVAC equipment to meet greener building standards, along with ENERGY STAR® for home certification.

The RNC program was very successful in 2011 with several multi-unit construction projects that boosted participation in the program. Of the 831 new homes that participated in the RNC program in 2011, 318 were multi-unit condominiums or apartments.

Connecticut resident Robin Whitright wanted to incorporate energy efficiency into the construction of her custom four-bedroom, single-family home in Cheshire. “After the oil spills — especially the one in the Gulf — I knew I didn’t want to use oil heat,” she states. “I liked the idea of having a home with geothermal.” The home received ENERGY STAR certification and a Home Energy Rating System (HERS) rating of 53, meaning it is 47 percent more efficient than a similar home built to Connecticut building code standards. Hybrid insulation (a combination of spray foam and fiberglass batts) achieved superior results cost-effectively. As Ms. Whitright was committed to geothermal heating and cooling, the home includes ground-source heat pumps as part of its system. While the builder had not built an ENERGY STAR qualified home before Ms. Whitright’s, he realized the value of the Fund’s assistance and incentives and building to ENERGY STAR standards. Ms. Whitright received more than \$6,500 in financial incentives from the Fund and expects to save approximately \$1,900 annually, compared to a home built to the base code requirements.

CT Zero Energy Challenge

In December 2011, the Energy Efficiency Fund announced the winners of Connecticut’s second residential design and build competition for single- and multi-family homes – the CT Zero Energy Challenge. The Challenge is an educational platform for the state’s building community regarding high-performance, zero net energy homes. A typical zero net energy home is designed to dramatically exceed minimum code standards and simply means that a home uses no more energy from the electrical grid over a given period than it produces on site. The Challenge uses a home rating to determine which homes achieved or came closest to zero net energy.

For more details on all the participating homes in the Challenge, visit www.ctzeroenergychallenge.com.

The following homes were winners in the 2010-2011 CT Zero Energy Challenge



Grand Prize Winner (Lowest Combined Score):

John and Delaine Simonds, Voluntown

Main Features: Geothermal heating and cooling, passive solar and photovoltaic systems.



Most Affordable:

Sam and Teri Norman, Coventry

Main Features: Passive solar heating, custom windows that maximize heat gain and minimize heat loss, advanced insulation, geothermal heating and cooling — built for \$101 per square foot.



Lowest Home Energy Rating System Index without Renewable Technologies:

Larry and Cindy Moeckel, Ashford

Main Features: Open floor plan for maximum day lighting and air circulation, geothermal heating and cooling, advanced insulation and air sealing.



“Avon Mountain is just one little gust of wind in the climate change battle, but I’m hoping that at least I’ve created something sustainable for my grandchildren.”

Bernard Zahren, Avon

Lowest HERS Index AND Lowest Projected Annual Net Operating Costs:

Bernard Zahren, Avon

Main Features: Geothermal heating and cooling system, solar domestic hot water system, wind turbine.

2011 Residential New Construction



Customers Served

831



CO₂ Emissions Reduced

2,145 Tons (Annual)



Annual Savings

\$610.6 Thousand



Lifetime Savings

\$11.1 Million



MMBTUs

Annual
21.4 Thousand

Lifetime
448.9 Thousand



Energy Savings

(kWh = Electricity, CCF = Natural Gas, Gallons=Fuel Oil)

kWh Annual
2.9 Million

CCF Annual
106.8 Thousand

Gallons Annual
4.3 Thousand

kWh Lifetime
46.6 Million

CCF Lifetime
2.7 Million

Gallons Lifetime
107.2 Thousand



Lighting, HVAC and Hot Water

Retail lighting represents the quickest way to make a difference in reducing energy consumption in Connecticut and the nation. In 2011 the Retail Products effort continued to focus on promotion of Compact Fluorescent Light bulbs (CFLs) and increased support of the emerging residential Light Emitting Diode (LED) market with new incentives and more products on the shelves. The program will continue to focus on CFLs until the price of LEDs can adapt to the demand in the residential market. The Fund also continues to sponsor Shining Solutions, a fundraising program in which schools and community organizations sell CFLs to raise money and expand access to the technology throughout Connecticut.

The Fund's award-winning Retail Products program continues to promote the sale of CFLs, and now LEDs, in most of Connecticut's grocery, pharmacy, home improvement and big box stores by working with lighting manufacturers to rebate the light bulbs before they reach the shelf. This allows customers to purchase discounted products without having to submit mail-in rebates or bring coupons to the store.

Lighting Fairs

The Fund offers lighting fairs throughout the year hosted by commercial businesses, state agencies, home shows, state and town fairs, and non-profit organizations. These fairs provide an opportunity to educate consumers that might not have otherwise considered efficient lighting and offer them the opportunity to purchase discounted CFLs, LEDs and other energy-efficient lighting.

SmartLiving™ Catalog

The Energy Efficiency Fund continued its support of the SmartLiving Catalog with both print and online versions available to the public for purchase of specialty CFLs and LEDs, table and desk lamps, ceiling lights, outside lighting, timers and other energy control devices. A new and enhanced on-line catalog (www.smartlivingcatalog.com) was produced in the Fall for a January, 2012 launch.



Heat pump water heater

HOT WATER HEATERS

Natural Gas Hot Water Heater Rebate - Available for residents who install an energy-efficient indirect water heater attached to a natural gas ENERGY STAR® qualified boiler or an on-demand natural gas-fired tankless water heater.

Heat Pump Water Heater Rebate - NEW for 2011 - Available for residents replacing an existing electric resistance water heater with an efficient heat pump water heater. Consumers may also be eligible for a federal tax credit.



Natural gas hot water heater

2011 Retail Lighting Products



Products Sold

CFLs	4,716,945
LEDs	40,397
Other Products	23,651



Energy Savings

kWh Annual	185.3 Million
kWh Lifetime	735.9 Million



Annual Savings

\$31.6 Million



Lifetime Savings

\$125.6 Million



CO₂ Emissions Reduced

93,033 Tons (Annual)



MMBTUs

Annual	Lifetime
632.3 Thousand	2.5 Million

Warm Up and Stay Cool at Lower Cost

Ductless Heat Pumps

The ductless heat pump rebate program continued with a strong showing in 2011 – 490 rebates of \$250-\$1,000 were redeemed. Additionally, ductless heat pumps also took center stage with limited income customers. During 2011, 3,576 units were installed at 51 different sites through the Home Energy Solutions-Income Eligible program in partnership with the Connecticut Department of Social Services, leveraging American Recovery and Reinvestment Act money to expand the program to more consumer participants. Energy-efficient ductless heat pumps, with their small footprint and easy installation, are well suited to offset electric baseboard heating consumption usually found in public housing properties and can typically save residents 25-50 percent on their heating bill.



Geothermal heat pump equipment

Geothermal Systems

Geothermal heat pumps are a clean and efficient option that help customers save on their heating and cooling costs. In 2011 the Energy Efficiency Fund provided rebates of up to \$1,500 to encourage the proper installation and testing of geothermal heat pumps. Customers may also be eligible for federal tax incentives for qualifying ENERGY STAR equipment.



Ductless heat pump system

Heating/Ventilation/Air Conditioning (HVAC) Rebates

According to the U.S. Department of Energy, heating and cooling accounts for about half of the energy use in a typical American home. In 2011 the Energy Efficiency Fund provided a \$250 incentive for installing certain ENERGY STAR central air conditioning or heat pump systems.

Quality Installation and Verification (QIV) Program – New for 2011

According to ENERGY STAR, more than half of all HVAC systems in the U.S. perform poorly and waste energy due to installation issues. The new QIV program provides consumers assurance that new or existing central air conditioners, heat pumps or furnaces are installed properly for best performance. Consumers receive incentives to participate in the program whereby approved contractors will verify the heating or cooling system’s expected efficiency and energy savings. Participants gain increased reliability and lower energy bills.

2011 Retail Rebates	Units	Annual Energy Savings		Lifetime Energy Savings		Annual Dollar Savings	Lifetime Dollar Savings	Annual CO ₂ Emissions Reduced (Tons)	Lifetime CO ₂ Emissions Reduced (Tons)
		kWh	CCF	kWh	CCF				
Natural Gas Water Heater	613	-	34,328	-	686,560	\$41,937	\$838,746	207	4,140
Heat Pump Hot Water Heater	102	179,724	-	2,156,688	-	\$28,536	\$342,434	90	1,083
HVAC	4,136	886,079	1,531	16,792,501	30,620	\$145,748	\$2,811,289	454	8,618
Geothermal Heat Pump	82	168,654	-	3,035,786	-	\$26,692	\$480,460	85	1,525
Ductless Heat Pump	490	693,036	-	12,474,662	-	\$110,316	\$1,985,697	348	6,265



Education and Outreach: Sustainable Learning at School, at Work and in Your Community

Education and outreach remains a top priority of the Energy Efficiency Fund, providing Connecticut residents of all ages with information on how they can live a more sustainable, energy-efficient lifestyle. The Fund's educational outreach efforts manifest in many ways: through museum exhibits, public forums and events, school-based programs (from kindergarten through college), trade shows, and numerous training seminars. Education and outreach plays a critical role by providing information and tools needed for businesses, municipalities and residents all over Connecticut to reduce their energy consumption, lower energy bills and protect the environment.

eesmarts™

The innovative **eesmarts** program continues to offer custom and general professional development workshops to hundreds of Connecticut educators on the basics of energy efficiency, renewable energy and how electricity works. In 2011, the program provided 19 professional development workshops and over 2,800 lessons free of charge to over 260 grade K-9 educators throughout the state.

In addition to the myriad classroom and curriculum development efforts, the program conducted its seventh K-12 student contest to engage Connecticut students on the topics of climate change, energy efficiency and renewable energy sources. Grade-level specific prompts allow students to showcase their ingenuity in many different forms including posters, limericks, news articles, song lyrics, essays, speeches, reports, and play/TV scripts. Two new categories for 2011 included asking grade K-2 students to design an energy-saving poster and high school students to write a letter to their principal about what students can do to address climate change in their high school. Several finalists' entries were incorporated into Stepping Stones Museum for Children's production of *Global Energy—The Musical*. The musical addresses scientific issues on energy and conservation and is based on stories, poems and songs by children from the United States, the Kingdom of Jordan and Rwanda.

In 2011, the **eesmarts** program continued its direct educational outreach to Connecticut's youth by hosting 17 **eeEvents** at schools, museums and scouting forums. **eesmarts** and the Girl Scouts of Connecticut continued their joint partnership by hosting three Energy Adventures Forums for over 250 Girl Scouts, troop leaders and parents. The forums included activity stations that helped the scouts learn about combating home energy vampires, magnetic energy, how energy gets into your home, the difference between incandescent and compact fluorescent lighting, recycling, and basic circuitry.

eesmarts program student contest winners





Tech School E-House

One of the most exciting developments for the Energy Efficiency Fund was the highly successful Connecticut Technical High School E-House initiative. A critical component of the Fund's desire to play a meaningful role in the development of an active green work force for Connecticut, the E-House program broke ground with three innovative new Tech School E-House projects in 2011 – at the EC Goodwin Technical School in New Britain, at Wolcott Technical High School in Torrington and at Grasso Technical High School in Groton. These unique projects are considered the nation's first green construction learning laboratories.



A cross section of insulation displayed in the E-House

“The E-House initiative allows our students to move beyond the textbook to hands-on, green construction training,” states Patricia Ciccone, Superintendent of the Connecticut Technical High School System. **“We are proud to be the first technical high school system in the nation to construct a hands-on training curriculum to ensure that our students graduate with the valuable skills needed to become part of our nation’s clean energy workforce.”**



Designed and built by faculty and students, the E-House incorporates solar photovoltaic and solar thermal systems and weatherization/energy efficiency labs in the design of the project. Working with the State of Connecticut's Technical High School System, the program is jointly funded by the Clean Energy Finance and Investment Authority and the Connecticut Energy Efficiency Fund. The successful program's blueprint is for an E-House constructed at all 17 of the state's technical high schools.



Clean Energy Communities

The successor to the Energy Efficiency Fund program formerly known as **eeCommunities** is the Clean Energy Communities program – a comprehensive and innovative platform for communities to earn points that can be redeemed for future sustainable projects. In 2011 the program administrators continued to meet with community groups and key community stakeholders to lay the groundwork for a new program format. Even though the program has a new name, the mission remains the same: to provide incentives for communities to participate in more clean and energy-efficient programs and initiatives.

The Energy Efficiency Fund and the Clean Energy Finance and Investment Authority (CEFIA) joined forces and in 2012 will begin to provide a more streamlined and efficient program for communities in Connecticut. The program starts with communities taking a pledge to commit to reducing municipal building energy consumption by 20 percent by 2018 – consistent with the state’s new Lead by Example initiative. The community also works with CEFIA to make a commitment to purchase 30 percent of its energy needs from clean sources by 2018. Then, the more CTCleanEnergyOption sign-ups, clean energy system installations, and Energy Efficiency Fund programs the community participates in, the more points it earns for free clean energy systems and energy efficiency projects.

Communities that successfully earn points for their energy efficiency activities outlined in the program are eligible for Bright Idea Grants of \$5,000-\$15,000 to help implement energy-saving plans that benefit the community.

Museum Partnerships

In 2011 the Energy Efficiency Fund continued its support of the SmartLiving™ Center in Orange and several interactive exhibits relating to energy, energy efficiency and clean, renewable energy sources throughout the state. All of these educational public facilities host a variety of events and school groups throughout the year, including workshops, special children’s activities and performances during October 2011 -- Energy Awareness Month.

The SmartLiving Center (Orange) – A professionally staffed facility that serves as a high-profile resource for promoting energy-efficient products, services and ideas.

Stepping Stones Museum for Children (Norwalk) – Energy Lab Exhibit

The Connecticut Science Center (Hartford) – Energy City Gallery

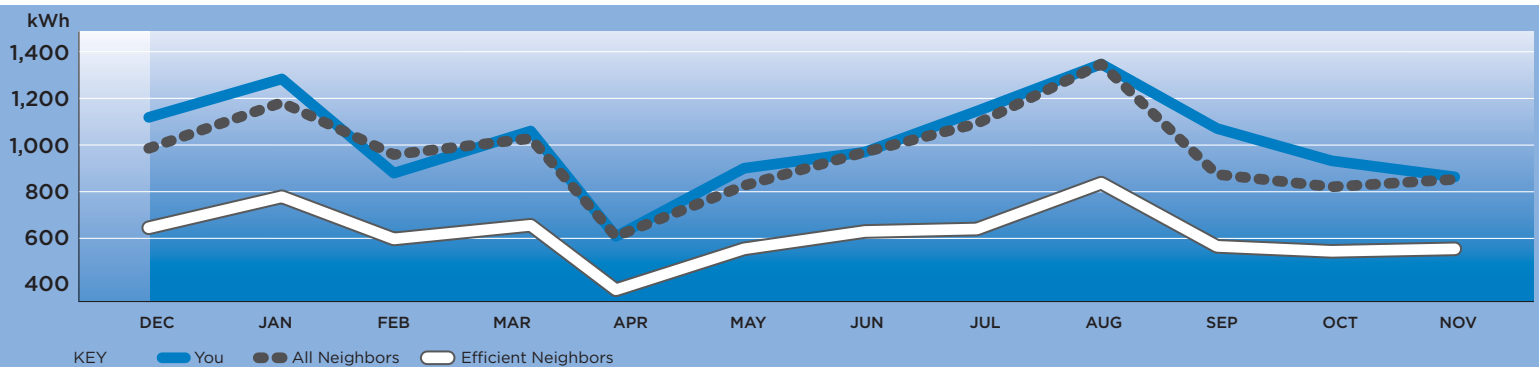
The Discovery Museum (Bridgeport) – Energy Exhibit



Home Energy Reports: Keeping Score on Energy Savings

The Energy Efficiency Fund and its partner utilities are always looking for ways to help Connecticut residents save money on their home energy bills. One innovative way to accomplish that goal is to provide a system through which residents can compare their energy use to that of those who live around them – a scorecard of how effectively they manage their energy usage. The pilot program, known as Home Energy Reports, was launched in 2011 for 24,000 Connecticut Light & Power customers and 6,000 United Illuminating customers.

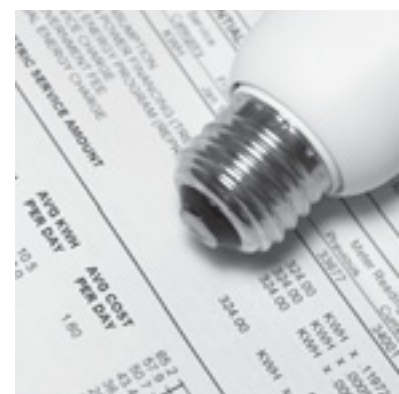
Participants receive monthly or quarterly reports that track their energy use compared to “neighbors” with similar-sized homes within a one- to two-mile radius. Reports include historical energy usage charts, energy-saving tips, and offer positive reinforcement to encourage customers to practice energy conservation and to install energy-efficient technologies.



The reports also direct customers to resources including the Energy Efficiency Fund’s programs and rebates.

The customer’s Home Energy Report shows improvement or the need to improve in overall energy use. The program goal is to leverage the inherent competitiveness of residents to improve their energy performance by providing insight into how they stack up against similarly sized homes in their neighborhood.

“Even though we’re being compared to a base that’s similar to us, we are still using 40 percent more than our neighbors,” said Lori Conant, a Connecticut utility customer who participates in the program. “So we’ve decided to take a more proactive approach, changing our passive attitude toward usage by switching to energy-efficient light bulbs, turning off lights and computers. We already keep the thermostat at 64 degrees during the day, we recently put in a new hot water heater, and the washer and dryer are new, so that’s helping to make a difference,” she added.



Events – We Are Everywhere

Where was the Energy Efficiency Fund in 2011?

Energy Efficiency Fund events reach every type of energy consumer – homeowners, renters, contractors, legislators, architects, building inspectors, large and small businesses, educators, and civic groups.



Commercial & Industrial Outreach

63 Events

Including:

- Chamber of Commerce Events
- Contractor Meetings
- CT Farm Energy Workshops
- CT Green Hotel Workshop
- Plaque Presentations/Celebrations with Participating Businesses
- Spanish American Merchants Association Events
- This Old House of Worship Presentations
- Operation Fuel

Trade Ally Training – for the Commercial & Industrial Marketplace

56 Events

Including:

- ASHRAE Technical Session
- Demand Response Training
- Energy Code Training
- Financing Energy Efficiency Projects
- High Performance Building
- LEED Overview
- New Lighting Technology
- O&M Best Practices
- Retro Commissioning
- Sustainability Forum

Energy Industry Conferences

28 Events

Including:

- American Council for an Energy-Efficient Economy (ACEEE) Conferences
- American Institute of Architects (AIA CT) Conference
- Association of Energy Engineers – CT Chapter (AEE-CT), Trade Shows, Meetings
- CT Plumbing, Heating and Cooling Contractors Trade Show
- Gas Technology Institute Conference
- Hartford Business Journal Energy Summit
- International Conference for Enhanced Building Operations
- New England Energy Conference
- Northeast Energy Efficiency Partnerships (NEEP) Summit
- U.S. Department of Energy Codes Conference
- What's the Deal Conference
- World Energy Engineering Congress (WEEC)



Lighting Fairs

66 Events

Including:

- Corporate Headquarters
- Fairs and Festivals
- Government Buildings
- Hospitals

More than 450 events.



Residential & Community Outreach

172 Events

Including:

- Bristol Boys & Girls Club
- Clean Energy Communities Events
- Community Services Fair, Groton
- Connect With Us
- Connecticut Efficient, Healthy Homes Initiative Events
- CT Transit Health Fair
- Earth Day Fairs and Expos
- Earthstock Connecticut
- Green Expo, New Haven
- Home Builders Association Home Show
- Home Show at Harbor Yard
- Latino Expo
- Library Events
- Peoples Action for Clean Energy Inc.
- School Fairs
- Senior Fairs
- SmartLiving Center Earth Day Celebration - EE Education day
- SmartLiving Center Family Science Day - EE Education day
- Social Agency Forums
- Spanish American Merchants Association Events
- Sustainable Building Jobs Symposium



Education

41 Events

Including:

- Connecticut Outdoor & Environmental Education Association (COEEA) Conference
- Connecticut Science Fair
- **eesmarts** Climate Change Workshop
- **eesmarts** Student Contest Ceremony
- **eesmarts** Summer Energy Education Workshops
- E-House Opening, E.C. Goodwin Technical High School
- Girl Scouts Energy and **eesmarts** Forums
- National Science Teachers Association - Hartford Conference
- Stepping Stones Museum for Children, LEED Gold Recognition Event
- Stepping Stones Museum for Children, Energy Awareness Month Activities



Trade Ally Training - for the Residential Building Trades

36 Events

Including:

- Accredited Geothermal Installer Training
- Building & HVAC Contractor Training
- Ductless Heat Pump Certification Class
- eQuest Seminar
- Heat Pump Water Heater Contractor Training
- HERS Rater Training
- HES Vendor Training Events
- Northeast HERS Alliance ENERGY STAR 3.0 Rater Training
- PATS (Duct Sealing) Certification



“The project went from just being about a compressor to a much more comprehensive arrangement.”

Joseph A. Legere, Vice President of Operations, Modern Woodcrafts

Helping Small Business: Connecticut’s Powerful Economic Engine

The most active – and often most innovative – segment of Connecticut’s economy is the small business community that plays such a vital role in the state’s economic health. Once again the Energy Efficiency Fund’s Small Business Energy Advantage (SBEA) program played a critical role in assisting Connecticut small businesses to remain competitive by reducing their energy use and costs.

The SBEA program offers comprehensive, cost-effective, turnkey, energy-saving products and services to small businesses that do not have the time, resources or in-house expertise necessary to reduce their energy use. Everything from lighting to HVAC equipment replacement, compressors, refrigeration controls, variable frequency drives and premium efficiency motors – the SBEA program offers incentives and financing to help small businesses be more cost and energy efficient.

Each SBEA project starts with an energy assessment from a contractor who proposes all possible energy efficiency measures, the complete costs and estimated energy savings, along with available program incentives and financing options. For qualifying small businesses, project costs not covered by the incentives may be eligible for zero-percent financing and the loan payments appear right on the electric bill. The energy-efficient improvements translate into monthly electric bill savings that result in a quick payback and a low out-of-pocket investment. In many cases, the monthly energy savings completely offset the monthly financed cost of the measures.

The SBEA program succeeded in 2011 in part because the Fund formed strategic alliances with community associations that helped promote the program throughout the state. Organizations like Operation Fuel, the Spanish American Merchants Association (SAMA) and the Interreligious Eco-Justice Network (IREJN) all helped to extend the SBEA benefits throughout the small business community this year.



“I think I can speak for most small, independent businesses – while we all want to be energy efficient, without the incentive and the zero-percent financing, this project would have been impossible.”

Jeff Konchalski, Owner, Nature’s Temptations



A vast array of industries and organizations participate in the SBEA program. Small groceries and convenience stores, restaurants, medical practices, machine shops, independently owned franchises, condominium associations, municipal buildings – all of these and more are represented in the program. Modern Woodcrafts in Plainville – designers and crafters of wood-paneled interiors for the retail, corporate and collegiate markets – started with a need to upgrade to a more energy-efficient compressor. But after an SBEA assessment and learning that they were eligible for zero-percent financing, the project grew to include lighting upgrades and improved ventilation equipment. When done, the company saved approximately \$35,500 and almost 183,000 kilowatt-hours annually.

For the Nature’s Temptations organic and natural grocery, deli and juice bar in Ridgefield, lighting and refrigeration enhancements identified through their SBEA assessment saves approximately \$3,500 and 24,000 kilowatt hours annually. The company received almost \$5,000 in incentives and will recoup their investment in two years.



North Haven-based H. Pearce Real Estate also benefitted from the program. Just by upgrading lighting throughout the facility, they saved more than 20,000 kilowatt-hours annually, saving the business approximately \$3,200 annually. H. Pearce received \$3,935 in incentives for the project.

In 2012 the SBEA program will be expanded to include prescriptive natural gas measures, in the process extending the reach and scope of the program throughout Connecticut.

2011 Small Business Energy Advantage Program



Customers Served
1,804



CO₂ Emissions Reduced
17,475 Tons (Annual)



Annual Savings
\$4.9 Million



Lifetime Savings
\$60.7 Million



MMBTUs
Annual
118.8 Thousand

Lifetime
1.5 Million



Energy Savings (kWh = Electricity)
kWh Annual
34.8 Million
kWh Lifetime
432.2 Million



“Many store managers face the fact that they are going to consume energy, but they don’t look at where they can save money. The bottom line here is that saving on expenses gives you the ammunition to grow.”

Harry Garafalo, ShopRite

Commercial & Industrial Customers: New Construction and Equipment

The Energy Conscious Blueprint (ECB) program is an incentive-based initiative designed to assist business customers planning new construction, major renovations, or replacement of existing equipment near the end of its useful life by implementing energy and cost-saving measures that ensure the building and equipment are more energy and cost effective to operate. Specifically, ECB is designed to increase energy efficiency and performance of lighting systems, HVAC systems, motors, process equipment, and other energy components.

The ECB program administrators provide technical support and recommendations during the building’s design phase. Technical services and financial incentives are based on the project design. Contractors or energy service companies work with the utility program administrators to customize the plan to meet the business needs.

The struggling economy is having an impact on the ECB program and on other commercial and industrial programs as well. According to an article in the September 17, 2011 edition of the *Wall Street Journal*, entitled “Companies Shun Investment, Hoard Cash”, “Corporations have a higher share of cash on their balance sheets than at any time in nearly half a century, as businesses build up buffers rather than invest in new plants or hiring.” While some Connecticut businesses are deferring capital investments, others are able to pursue new opportunities to expand, as we see in the following examples of ECB participants.

Here in Connecticut, ShopRite owner Harry Garafalo sought ways to efficiently light and refrigerate his stores while keeping temperature and lighting comfortable for the customers. Like many smart business owners, Mr. Garafalo made sure he educated himself on available rebates prior to executing an energy-efficient make-over for his four stores in Hamden, Milford, Stratford and West Haven. Combining lighting, refrigeration and energy management system improvements, ShopRite’s annual anticipated energy savings is nearly 530,000 kilowatt-hours, or \$85,000, with a lifetime energy savings of approximately 7.6 million kilowatt-hours, or \$1.2 million. ShopRite received an incentive of \$35,559 from the Energy Efficiency Fund to offset the cost of the new energy-efficient upgrades.

2011 Energy Conscious Blueprint



Businesses Served
827



CO₂ Emissions Reduced
20,497 Tons (Annual)



Annual Savings
\$5.1 Million



Lifetime Savings
\$77.7 Million



MMBTUs

Annual
181.3 Thousand

Lifetime
2.8 Million



Energy Savings (kWh = Electricity, CCF = Natural Gas,)

kWh Annual
32.7 Million

kWh Lifetime
495.9 Million

CCF Annual
678.7 Thousand

CCF Lifetime
10.5 Million

“Mary Wade is proud to partner with the Connecticut Energy Efficiency Fund. The savings we received enabled us to reduce our costs and assisted in expanding the services we provide to residents, clients and families in need of our support.”

David Hunter, CEO Mary Wade Home, Inc.

When the Mary Wade Home in New Haven decided to expand their skilled nursing facility, they turned to the Energy Efficiency Fund to seek out ways to become more energy efficient. Mary Wade will save electricity and natural gas for years to come as a result of their choice to participate in the ECB program. They received incentives for installing fluorescent lighting, a chiller, premium efficiency fan/pump motors with variable frequency drives and a condensing boiler. These measures will save approximately 187,000 kilowatt-hours, 5,000 CCFs and \$36,000 annually.

In a time of economic uncertainty, these energy savings add up. According to the President and Chief Executive Officer, David Hunter, “By partnering with the Energy Efficiency Fund and our utility, Mary Wade will not only reduce energy consumption—we will be able to use the monies (saved) to provide vital support services to seniors who need our assistance.”

Stamford-based Building Land & Technology (BLT) also launched a major energy efficiency project in 2011 that resulted in an annual savings of more than \$70,000. Much of the energy savings achieved during the renovation of the Lofts at Yale and Towne, a 225-unit rental apartment complex located at the 100-year-old Yale Lock factory in Stamford, were through the installation of high efficiency natural gas fired condensing boilers that provide the building with heat. Additionally, more than 53,000 square feet of one-inch thick, insulated Low “E” glass was installed to maximize efficiency and preserve The Lofts’ historic nine foot high windows. Other design measures included high efficiency lighting, automated heating systems maximizing various climate controls, and hot water pumps. BLT’s \$287,000 incentive enables them to save enough natural gas and electricity each year to equal approximately 316 tons of avoided carbon dioxide emissions – or the equivalent of taking 55 cars off the road for a year.

Building Code Changes

The Energy Efficiency Fund actively supported revisions to the state building code to remain consistent with changes in the design community, particularly those that promote and enhance energy efficiency. This included working with the state’s Codes and Standards Committee and the Department of Public Safety on revisions to the building code that would provide value to the state as a whole. In 2011 the Energy Efficiency Fund hosted eight important seminars in response to changes made by the adoption of the 2009 International Energy Conservation Code in order to facilitate a better understanding of what those changes mean to design and code compliance communities. This will remain an on-going focus for the Energy Efficiency Fund moving forward.

Research, Development & Demonstration (RD&D)

The RD&D program is comprised of staff from Connecticut Light & Power and The United Illuminating Company, along with an independent policy working group (PWG). Together, they provide technical support and due-diligence review of new energy efficiency technologies proposed to the Energy Efficiency Fund under the EEB Roadmap Process. The RD&D program provides on-going technical support and acts as a liaison with both external and internal agencies such as the Electric Power Research Institute (EPRI); the U.S. Department of Energy’s National Labs; the Environmental Protection Agency’s ENERGY STAR® Program; the Consortium for Energy Efficiency (CEE); the Northwest Energy Efficiency Alliance (NEEA); Northeast Energy Efficiency Partnerships (NEEP); Rensselaer Polytechnic Institute’s Lighting Research Center (LRC); and the Connecticut Clean Energy Finance and Investment Authority (CEFIA, formerly known as the Connecticut Clean Energy Fund).



L to R: Marion Lemley, Resident and David Hunter, CEO Mary Wade Home, Inc.





With the installation of the outdoor LED lighting at our schools and library, our town has gained a substantial energy savings of approximately 75 percent and, at the same time, has made a positive impact on the environment.

Michael Krol, First Selectman, Town of Stafford

Commercial & Industrial Projects: Retrofitting Existing Buildings

Energy Opportunities Program

Similar to the Energy Conscious Blueprint program, conducting comprehensive projects was a focus for the Energy Opportunities (EO) program, which is designed for larger businesses looking to retrofit their buildings or to replace existing operating equipment. This program incorporates financial incentives, which may include zero-percent or low-interest rate financing, to help commercial, industrial or municipal customers evaluate the choice of either maintaining their older, inefficient equipment or upgrading to a higher-efficiency option. Potential areas of improvement are lighting, HVAC systems, refrigeration systems, water heaters, and process-related equipment.

Advanced Lighting

Lighting improvements are a major feature of the Energy Opportunities program. The Energy Efficiency Fund, in partnership with Connecticut Light & Power and The United Illuminating Company, play a critical role in advancing the use of cutting-edge, qualified lighting products in the commercial, industrial and municipal markets. Utility engineers are actively involved with the DesignLights Consortium, a collaboration of utility companies and regional energy efficiency organizations committed to elevating awareness of the benefits of more energy efficient lighting in non-residential facilities. In 2011 the Energy Efficiency Fund, through the EO program, promoted the use of emerging technologies, such as Light-Emitting Diodes (LED) lamps. LEDs are more rugged and damage resistant than fluorescent bulbs and incandescent bulbs. In addition, the Fund continues to promote broader use of induction lighting, particularly in outdoor applications.

The Town of Stafford benefitted greatly from their EO program project. The comprehensive LED lighting upgrade to five schools and the public library will save approximately two million kilowatt-hours and more than \$400,000 over the lifetime of the equipment. That's the equivalent of powering approximately 237 homes for a year, or taking 167 cars off the road.

EO program participants can also take advantage of the Fund's Lighting Express Rebate program – a program which allows facility managers and business owners to be immediately incentivized for the cost of installing high-efficiency lighting fixtures.



Beyond Lighting

One of the primary objectives of the EO program is to aggressively identify and provide incentives for comprehensive energy efficiency projects – projects that involve improvements to more than one energy end-use. That means projects that feature improvements to heating and lighting, for example, or projects that feature a combination of natural gas and electric energy efficiency measures.

As the headline implies, lighting is not the only energy-efficient opportunity available to a facility. Upgrades to HVAC systems, refrigeration units, water heating, and process-related equipment can also save energy and money. For example, Enfield-based PTI Industries implemented a series of energy strategies that included lighting and an air compressor, along with implementing lean manufacturing techniques. Program incentives also enabled them to purchase and install two new machines that increased productivity and helped them to expand their market share by 15 percent – a reflection of the Fund’s mission to promote economic development in Connecticut. As a result of the comprehensive energy upgrades, PTI is saving nearly two million kilowatt-hours and approximately \$334,000 annually, or approximately \$4 million over the lifetime of the installed measures.

National Amusements, a world leader in the motion picture exhibition industry, is another company that is benefitting from the EO program. By upgrading their existing chillers and improving lighting in their Fairfield and Bridgeport theatres, National Amusements is securing significant savings in operating cost and energy use. Together, the annual savings for the two theatres is anticipated to be approximately 561,000 kilowatt-hours and nearly \$90,000.

“At National Amusements we are very focused on investing in resources that save energy and money,” said Jon Nattinville, Director of Construction for National Amusements. “The purpose for going through this process is twofold. With increasing energy costs that impact our bottom line, we are looking to be as efficient as possible without impacting our customers’ experience, and we are also looking to limit waste as a responsible member of the business community.”

“We have to stay extremely lean in our processes and efficient with our energy usage in order to keep operating costs at a minimum to remain competitive.”

John Hill, Director of Product Research and Development, PTI Industries



L to R: Harley Dulude, Jr., President and John Hill



Performance Contracting

Municipalities, universities, schools and hospitals can often benefit from performance contracting – a strategy that enables facilities to pay for broad, comprehensive energy efficiency upgrades with the savings generated by those same upgrades. In 2011 both PURA and DEEP required that the EEB, in partnership with Connecticut Light & Power and The United Illuminating Company, start to lay the groundwork for a broader utilization of this effective strategy in 2012 and beyond.

In May, 2011, the EEB in collaboration with the electric utilities, the National Energy Services Coalition, state and municipal government representatives, and several environmental advocacy groups formed the Performance Contracting Working Group. Those meetings have resulted in the production of a Best Practices Guide – an important step in the development of the performance contracting standards called for in Public Act 11-80.

2011 Energy Opportunities



Businesses Served

1,218



CO₂ Emissions Reduced

53,656 Tons (Annual)



Annual Savings

\$12.5 Million



Lifetime Savings

\$159.0 Million



MMBTUs

Annual
509.9 Thousand

Lifetime
7.4 Million



Energy Savings

(kWh = Electricity, CCF = Natural Gas, Gallons = Fuel Oil)

kWh Annual
78.5 Million
kWh Lifetime
955.8 Million

CCF Annual
2.3 Million
CCF Lifetime
40.2 Million

Gallons Annual
8.6 Thousand
Gallons Lifetime
125.7 Thousand



Business & Energy Sustainability: A New Emphasis

Throughout 2011, the commercial and industrial EEB working group took a closer look at the total lifecycle of buildings and examined how the existing Fund-supported retrofit programs could address the energy needs of buildings in a more holistic fashion. Studies and reports show that energy consumption can be reduced by 10-20 percent through regular energy “tune-ups” throughout the life of a building, with deeper savings available through the retro commissioning of commercial buildings. The Energy Efficiency Fund is responding to the challenge to maintain high performance in both new and upgraded buildings by stressing the need for ongoing care. The answer to improving building operations and building operator capability lies in changing the behavior of the building’s occupants and facility operators so that they actually “do” what is needed to increase building performance.

To reflect this refocused view of the total building environment, the Fund, in 2012, will promote the existing Operations & Maintenance Services, Retro Commissioning, Business Sustainability Challenge, Process Re-engineering for Increased Manufacturing Efficiency (“PRIME”), and Education and Outreach programs as a suite of integrated programs under the Business and Energy Sustainability program umbrella.

Retro Commissioning

The Retro Commissioning program identifies energy savings in existing commercial and industrial buildings that are at least 100,000 square feet by improving the operation of the building’s energy management system. This approach documents overall building performance while also developing long-term, sustainable energy management strategies. Like other Energy Efficiency Fund programs, financial and technical assistance is provided for qualifying measures.

By adding and controlling occupancy sensors in strategic locations and programming the HVAC units to react to the information being provided, the 178,000 square foot Smith Middle School in Glastonbury will save approximately \$31,000 in electric costs and \$9,000 in natural gas expenses annually. This strategy allows for the heating and cooling systems to turn themselves down when not needed and provide comfortable conditions when needed. This is one of three Retro Commissioning projects Glastonbury has engaged in and they are considering additional projects in town.



*L to R: Sharon Smith, Business Manager;
Alan Bookman, Superintendent of Schools, Glastonbury*

Operations & Maintenance Services

Failure to keep pace with needed building maintenance can lead to dramatic energy loss – and high energy costs. The Energy Efficiency Fund’s Operations & Maintenance Services (O&M) program helps commercial and industrial customers improve the electrical and thermal efficiency of their operations by implementing changes and repairs – as opposed to making expensive capital improvements. O&M projects are customized to reflect the unique needs of a building and often include economizer repairs/conversions, repairs/replacements of steam traps, and rewiring of lighting circuits for more efficient switching. Financial incentives help to offset a portion of the project cost. In addition, in-house personnel receive training to ensure that the improvements are maintained over time.

Process Reengineering for Increased Manufacturing Efficiency (PRIME)

In the ever-competitive manufacturing sector, companies are always looking for an edge to enhance their competitiveness. That is why identifying inefficiencies and waste in their operations takes on great importance. Enter the PRIME program – a unique training curriculum supported by the Energy Efficiency Fund to introduce “lean manufacturing” techniques to companies that may lack the resources devoted to process improvement. PRIME helps companies streamline product flow, eliminate waste, improve efficiency, minimize environmental impact, and reduce energy consumption to enhance their competitiveness.

Business Sustainability Challenge

The Business Sustainability Challenge (BSC) was formed to help Connecticut businesses improve their bottom line by comprehensively analyzing overall operations to improve their “triple bottom line” – how they perform financially, environmentally and socially. By promoting cultural and behavioral change and providing businesses with tools and resources, BSC enables companies to achieve deeper and longer lasting energy savings and carbon reductions – and helps them attain the goal of becoming a sustainable business.

In June 2011, over 150 business professionals representing a diverse portfolio of industries gathered at the Energy Efficiency Fund’s first ever Sustainability Breakfast Forum held at the Omni New Haven Hotel at Yale in partnership with the Greater New Haven Chamber of Commerce and the City of New Haven. This informative session provided an opportunity to network, share best practices and discuss the business value of sustainability. In November, a second Forum was held in Bridgeport. Additional forums are being planned and will play a key role in continuing momentum and identifying businesses willing to champion the BSC in 2012 and in the future.



2011 Operations & Maintenance Services/Retro Commissioning/PRIME



Businesses Served

103



CO₂ Emissions Reduced

5,652 Tons (Annual)



Annual Savings

\$1.7 Million



Lifetime Savings

\$16.4 Million



MMBTUs

Annual
45.1 Thousand

Lifetime
436.3 Thousand



Energy Savings

kWh Annual
10.0 Million
kWh Lifetime
91.4 Million

(kWh = Electricity, CCF = Natural Gas.)

CCF Annual
107.4 Thousand
CCF Lifetime
1.2 Million



Improving the air quality in the Northeast continues to be an important focus of the Connecticut Energy Efficiency Fund.

Protecting Connecticut's Treasured Environment

A focus of the Energy Efficiency Fund continues to be achieving reductions in air pollution and improving air quality in Connecticut and, because there are not walls around the state, the Northeast as a whole. Fossil fuel generation continues to represent a threat to air quality and remains the single largest source of carbon dioxide emissions in the country. Reducing the amount of energy used in Connecticut results in less plant operation time and significantly reduces the emission of carbon dioxide, nitrous and sulfur oxides - which are all associated with environmental issues like ozone depletion, climate change, public health problems, acid rain and smog.

In 2011 Connecticut upped the stakes significantly with passage of *PA 11-80, An Act Concerning The Establishment Of The Department Of Energy And Environmental Protection And Planning For Connecticut's Energy Future*. The new law establishes new and more aggressive standards for carbon reduction and energy policy, and requires greater vigilance on all environmental issues in the future.

Investments in energy efficiency do more than simply meet legal requirements; they pay dividends for future generations. By reducing the need for non-renewable power generation, we take an important step in improving regional air quality, which positively impacts Connecticut's environment on several levels.

By playing an integral role in helping to reduce greenhouse gas and air pollutant emissions, the Energy Efficiency Fund's programs play a vital role in the overall economic and environmental health of Connecticut.

Reflecting Reduction in Criteria Pollutants and Carbon Dioxide (in Tons)

Air Emissions	Annual Savings 2011			Lifetime Savings 2011		
	Electric	Natural Gas	Oil	Electric	Natural Gas	Oil
SO _x Tons	47	—	—	384	—	—
NO _x Tons	36	—	—	297	—	—
CO ₂ Tons	198,000	28,991	17,229	1,622,039	485,556	283,051

The lifetime energy savings achieved through Energy Efficiency Fund programs in 2011 results in avoided emissions equivalent to:



384,508 

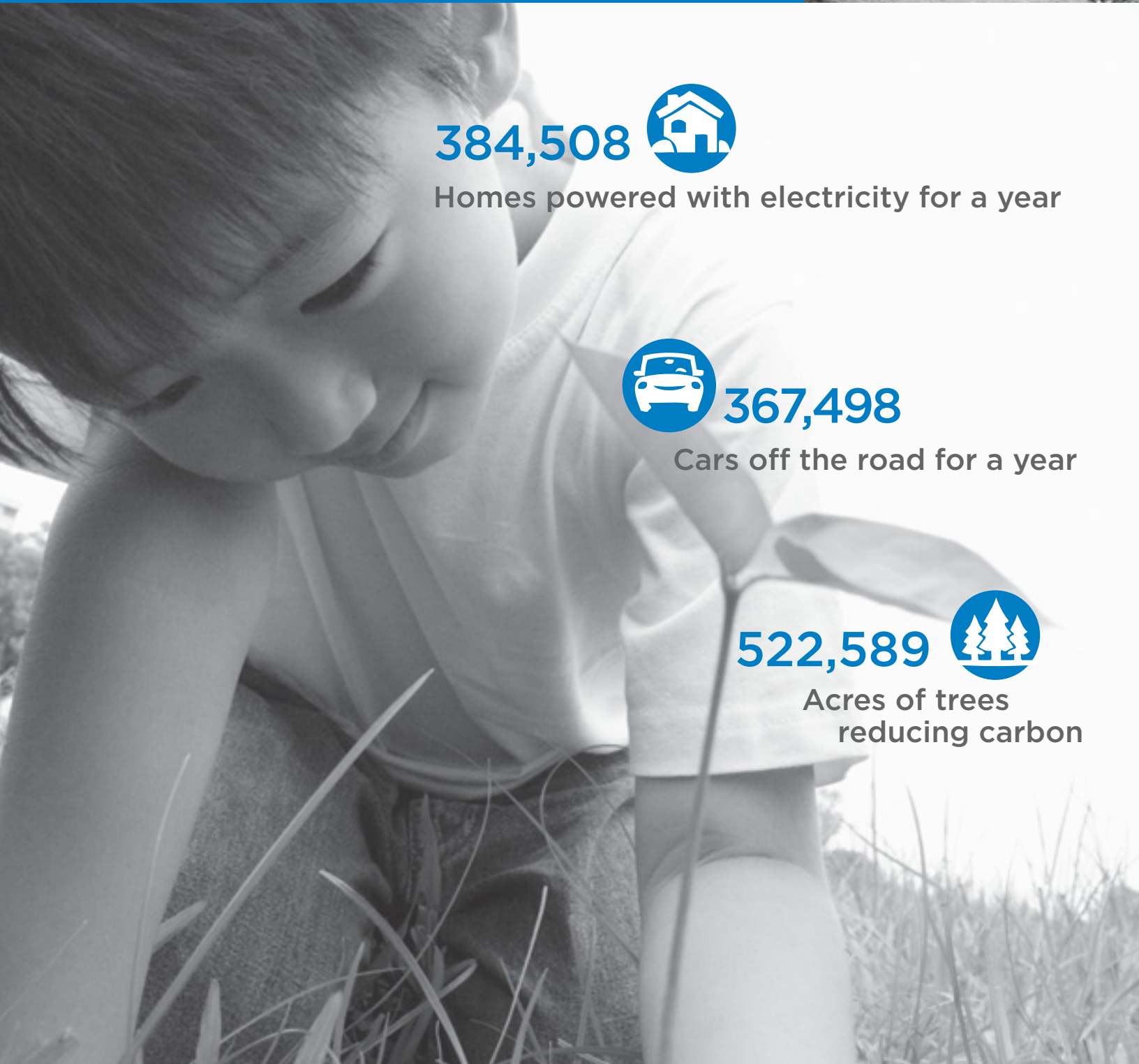
Homes powered with electricity for a year

 367,498

Cars off the road for a year

522,589 

Acres of trees
reducing carbon



Demonstrating Economic Benefits Throughout Connecticut

This list includes energy efficiency and conservation benefits provided to residential, commercial and industrial customers of the electric and gas utilities and the Connecticut Municipal Electric Energy Cooperative (CMEEC).

TOWN	ENERGY INCENTIVES	ANNUAL kWh SAVINGS	LIFETIME kWh SAVINGS	PEAK DEMAND kW	ANNUAL CCF SAVINGS	LIFETIME CCF SAVINGS	ANNUAL GALLONS OIL	LIFETIME GALLONS OIL	ANNUAL DOLLAR SAVED	LIFETIME DOLLAR SAVED	ANNUAL CO ₂ (TONS) SAVED
ANDOVER	\$29,518	25,643	252,920	5	0	0	1,479	20,068	\$9,599	\$115,684	32
ANSONIA	\$132,739	259,624	2,932,932	44	13,323	197,734	1,710	28,905	\$58,816	\$745,174	233
ASHFORD	\$52,543	105,030	1,161,334	24	0	0	1,992	26,386	\$23,751	\$279,325	79
AVON	\$691,758	1,351,443	11,146,218	180	29,113	541,808	10,774	189,618	\$275,842	\$2,942,075	994
BARKHAMSTED	\$79,846	134,432	1,418,749	19	0	0	3,459	56,792	\$33,883	\$435,290	113
BEACON FALLS	\$45,575	148,541	1,736,561	22	343	6,290	2,027	38,579	\$30,885	\$420,179	103
BERLIN	\$1,200,444	9,057,206	47,116,974	985	31,752	536,859	6,932	106,625	\$1,446,420	\$8,141,112	4,830
BETHANY	\$70,747	138,669	1,591,793	22	0	0	3,679	52,136	\$35,374	\$444,021	118
BETHEL	\$534,819	1,826,068	23,112,787	238	2,347	51,051	5,023	86,028	\$301,726	\$3,924,875	997
BETHLEHEM	\$33,311	58,272	821,730	5	0	0	1,178	20,121	\$13,456	\$203,200	45
BLOOMFIELD	\$944,834	6,082,268	48,429,084	621	16,932	231,504	9,230	137,424	\$984,758	\$8,175,932	3,277
BOLTON	\$87,358	110,965	1,237,105	17	0	0	3,217	47,510	\$29,353	\$371,860	98
BOZRAH	\$71,000	156,632	1,033,506	8	0	0	0	0	\$24,043	\$158,643	79
BRANFORD	\$442,345	1,588,078	18,281,906	197	27,444	556,857	7,539	153,513	\$298,217	\$3,913,144	1,061
BRIDGEPORT	\$3,656,514	11,076,703	96,859,753	1,053	286,072	4,166,668	27,113	448,220	\$2,070,700	\$20,467,446	7,641
BRIDGEWATER	\$41,718	47,168	437,939	11	0	0	1,606	26,620	\$13,392	\$169,179	45
BRISTOL	\$1,126,151	5,979,961	42,815,980	656	8,440	109,375	19,932	320,449	\$1,002,131	\$7,901,498	3,313
BROOKFIELD	\$851,478	10,820,713	54,700,049	1,018	1,551	37,296	8,446	143,990	\$1,694,773	\$8,982,694	5,553
BROOKLYN	\$237,666	414,135	4,594,659	47	7,057	83,969	4,846	72,350	\$88,706	\$1,060,629	314
BURLINGTON	\$150,384	204,055	2,195,611	42	0	0	5,840	95,470	\$53,688	\$702,678	178
CANAAN	\$34,028	83,504	825,875	10	0	0	1,372	21,056	\$18,074	\$207,415	60
CANTERBURY	\$57,758	98,895	914,288	4	0	0	2,696	37,345	\$25,507	\$283,375	85
CANTON	\$444,496	2,104,920	12,680,510	199	3,606	72,536	6,452	101,569	\$351,178	\$2,403,063	1,163
CHAPLIN	\$27,011	21,949	173,512	2	0	0	1,875	17,532	\$10,551	\$93,782	35
CHESHIRE	\$1,001,107	1,734,534	24,712,391	227	6,885	155,403	12,212	192,423	\$319,440	\$4,675,149	1,072
CHESTER	\$153,243	227,626	2,285,227	30	0	0	2,136	31,315	\$43,120	\$470,719	142
CLINTON	\$362,903	932,511	11,829,513	113	876	20,896	5,978	105,912	\$166,852	\$2,240,946	551
COLCHESTER	\$475,443	783,703	9,338,928	67	0	0	7,298	96,376	\$148,250	\$1,802,646	489
COLEBROOK	\$16,680	17,477	146,271	3	0	0	1,086	13,897	\$6,842	\$75,676	23
COLUMBIA	\$56,870	88,958	891,449	18	0	0	3,571	47,914	\$27,333	\$320,347	91
CORNWALL	\$36,523	63,581	790,956	2	0	0	744	13,509	\$12,610	\$173,152	42
COVENTRY	\$268,769	326,374	4,622,138	26	0	0	6,224	85,686	\$73,936	\$1,037,677	245
CROMWELL	\$383,560	1,991,157	15,162,257	183	9,151	147,367	5,008	87,401	\$333,349	\$2,799,481	1,120
DANBURY	\$2,300,878	12,181,577	103,427,331	1,578	76,371	881,618	13,989	239,796	\$1,994,619	\$17,616,071	6,760
DARIEN	\$412,626	702,634	8,222,850	96	15,797	248,099	13,772	262,570	\$175,320	\$2,499,046	627
DEEP RIVER	\$53,997	111,550	1,334,011	16	0	0	2,083	34,426	\$25,102	\$336,622	83
DERBY	\$466,269	4,712,561	26,365,289	462	6,612	87,040	2,087	33,723	\$737,534	\$4,257,342	2,434
DURHAM	\$167,741	398,192	5,233,320	36	0	0	2,463	42,862	\$70,558	\$967,477	232
EAST GRANBY	\$173,585	349,844	4,181,155	211	0	0	2,278	40,123	\$62,427	\$795,478	205
EAST HADDAM	\$134,766	168,512	1,969,637	28	0	0	5,799	105,966	\$48,075	\$708,189	160
EAST HAMPTON	\$352,004	690,222	8,859,505	40	0	0	6,277	89,140	\$129,991	\$1,701,339	428
EAST HARTFORD	\$1,822,690	3,620,098	34,950,308	506	136,417	1,547,832	16,156	248,918	\$744,687	\$7,760,605	2,851
EAST HAVEN	\$414,050	3,355,669	16,847,236	334	14,607	229,922	5,626	106,440	\$550,253	\$3,207,974	1,847
EAST LYME	\$310,988	789,392	9,101,757	95	0	0	8,830	140,612	\$154,992	\$1,935,665	511
EAST WINDSOR	\$283,510	1,009,034	8,248,538	161	7,149	166,887	3,220	51,910	\$173,880	\$1,620,481	592
EASTFORD	\$17,182	28,269	308,778	6	0	0	679	9,663	\$6,938	\$84,406	23
EASTON	\$102,238	136,748	1,453,556	42	1,174	19,181	5,007	90,384	\$41,261	\$587,167	141



TOWN	ENERGY INCENTIVES	ANNUAL kWh SAVINGS	LIFETIME kWh SAVINGS	PEAK DEMAND kW	ANNUAL CCF SAVINGS	LIFETIME CCF SAVINGS	ANNUAL GALLONS OIL	LIFETIME GALLONS OIL	ANNUAL DOLLAR SAVED	LIFETIME DOLLAR SAVED	ANNUAL CO ₂ (TONS) SAVED
ELLINGTON	\$230,896	548,879	5,439,110	75	3,937	54,803	6,292	90,489	\$112,021	\$1,232,545	381
ENFIELD	\$1,487,010	12,217,687	72,526,594	1,234	31,044	495,297	15,959	282,956	\$1,965,466	\$12,678,107	6,531
ESSEX	\$224,615	317,292	4,222,837	26	0	0	3,169	56,127	\$60,843	\$863,171	201
FAIRFIELD	\$1,684,721	8,011,029	56,690,135	904	64,134	928,417	14,248	245,280	\$1,344,026	\$10,506,523	4,595
FARMINGTON	\$599,474	1,500,946	15,916,591	200	25,019	481,849	10,766	153,139	\$294,943	\$3,478,741	1,045
FRANKLIN	\$31,400	92,321	1,316,276	2	0	0	521	7,609	\$16,167	\$231,192	53
GLASTONBURY	\$1,392,424	6,188,704	46,756,893	587	41,744	570,611	13,331	207,136	\$1,039,924	\$8,502,250	3,533
GOSHEN	\$39,866	52,993	609,651	13	0	0	900	15,417	\$11,582	\$152,628	38
GRANBY	\$163,433	358,413	3,971,803	45	0	0	6,562	107,853	\$80,148	\$1,022,748	265
GREENWICH	\$1,629,285	5,448,564	66,379,541	689	56,055	993,460	9,967	196,992	\$926,764	\$11,869,515	3,204
GRISWOLD	\$118,350	291,689	2,211,619	34	0	0	3,588	63,181	\$58,517	\$581,466	193
GROTON	\$902,716	4,587,004	32,499,942	329	5,426	81,390	691	7,185	\$711,809	\$5,092,107	2,345
GUILFORD	\$535,050	1,454,028	14,811,626	185	3,969	65,724	14,335	251,472	\$281,796	\$3,297,968	941
HADDAM	\$139,181	183,221	2,609,413	39	0	0	4,289	72,948	\$44,550	\$679,936	148
HAMDEN	\$1,486,441	7,425,950	60,733,492	720	54,087	873,209	17,179	290,698	\$1,256,080	\$11,249,683	4,279
HAMPTON	\$42,348	98,049	1,299,839	22	0	0	581	8,768	\$17,277	\$233,106	57
HARTFORD	\$3,299,634	9,795,308	106,540,635	1,042	160,954	2,180,659	23,983	388,553	\$1,745,424	\$19,874,238	6,202
HARTLAND	\$5,969	7,607	58,040	1	87	1,297	226	2,706	\$2,114	\$20,482	7
HARWINTON	\$74,687	75,998	713,147	11	152	2,177	3,629	51,753	\$25,708	\$309,711	86
HEBRON	\$115,298	166,450	1,912,595	19	217	3,787	5,051	69,219	\$45,096	\$562,219	151
KENT	\$69,621	102,701	1,159,136	15	0	0	2,597	52,280	\$25,712	\$378,158	85
KILLINGLY	\$437,483	1,720,385	13,272,485	150	1,164	12,649	9,834	116,084	\$302,830	\$2,493,715	999
KILLINGWORTH	\$85,365	99,859	925,177	20	0	0	3,461	58,306	\$28,586	\$365,325	95
LEBANON	\$43,581	54,266	444,782	7	0	0	2,445	30,404	\$17,693	\$184,721	59
LEDYARD	\$404,440	831,883	9,222,139	88	82,379	1,070,823	3,352	48,787	\$217,298	\$2,600,319	958
LISBON	\$293,243	3,333,015	20,652,840	458	0	0	1,889	28,309	\$518,855	\$3,278,635	1,698
LITCHFIELD	\$170,329	292,871	3,232,274	41	57	709	6,564	117,438	\$70,149	\$946,601	233
LYME	\$43,811	40,556	474,091	7	0	0	1,308	26,546	\$11,237	\$174,444	37
MADISON	\$361,139	825,215	9,271,321	120	3,332	67,857	7,541	119,042	\$158,658	\$1,942,311	533
MANCHESTER	\$1,818,513	14,315,700	82,371,811	1,353	36,794	571,422	31,511	340,205	\$2,352,433	\$14,479,551	7,821
MANSFIELD	\$659,123	2,118,377	26,326,877	452	738	11,327	8,928	139,856	\$360,053	\$4,587,381	1,185
MARLBOROUGH	\$74,214	75,987	744,702	14	0	0	3,048	56,230	\$23,338	\$329,672	78
MERIDEN	\$1,689,637	3,767,447	44,617,796	661	58,430	973,870	20,877	283,869	\$712,711	\$8,843,571	2,516
MIDDLEBURY	\$203,890	271,869	3,095,531	49	1,261	23,505	6,124	102,654	\$66,361	\$890,232	224
MIDDLEFIELD	\$253,648	916,019	12,916,113	149	0	0	2,055	35,726	\$148,479	\$2,119,455	487
MIDDLETOWN	\$3,846,151	7,712,482	76,250,326	743	168,768	1,820,840	33,744	494,740	\$1,470,376	\$15,296,065	5,330
MILFORD	\$1,531,312	9,502,275	65,551,260	988	81,910	1,428,295	11,304	208,334	\$1,578,224	\$12,191,021	5,413
MONROE	\$320,279	622,624	6,957,779	127	5,049	94,273	7,369	128,113	\$128,503	\$1,646,540	439
MONTVILLE	\$1,743,255	3,328,736	19,600,609	283	1,634,835	32,268,440	7,289	110,280	\$2,062,329	\$33,501,023	11,624
MORRIS	\$25,297	38,581	459,578	5	0	0	812	11,858	\$9,033	\$115,960	30
NAUGATUCK	\$834,600	1,541,104	13,949,983	223	69,579	1,332,950	9,094	146,113	\$336,226	\$3,943,069	1,312
NEW BRITAIN	\$1,559,674	7,364,155	53,147,283	749	79,133	1,078,274	16,032	318,978	\$1,265,543	\$10,384,606	4,384
NEW CANAAN	\$681,892	1,139,438	15,643,910	238	189	3,775	13,421	259,579	\$226,483	\$3,399,046	748
NEW FAIRFIELD	\$217,545	415,939	4,530,102	86	0	0	6,275	105,396	\$87,882	\$1,099,036	291
NEW HARTFORD	\$222,601	2,680,163	11,707,652	242	0	0	3,436	61,033	\$424,564	\$2,030,883	1,391
NEW HAVEN	\$3,628,030	6,677,507	77,639,167	819	251,450	4,083,038	49,151	891,550	\$1,447,562	\$19,137,106	5,509
NEW LONDON	\$3,169,330	3,863,574	47,623,173	561	203,284	3,398,121	6,567	88,136	\$807,643	\$10,814,321	3,251

Demonstrating Economic Benefits Throughout Connecticut

continued



TOWN	ENERGY INCENTIVES	ANNUAL kWh SAVINGS	LIFETIME kWh SAVINGS	PEAK DEMAND kW	ANNUAL CCF SAVINGS	LIFETIME CCF SAVINGS	ANNUAL GALLONS OIL	LIFETIME GALLONS OIL	ANNUAL DOLLAR SAVED	LIFETIME DOLLAR SAVED	ANNUAL CO ₂ (TONS) SAVED
NEW MILFORD	\$604,420	2,340,172	15,277,171	313	0	0	13,815	235,449	\$412,129	\$3,246,817	1,355
NEWINGTON	\$729,964	3,373,462	26,399,043	380	19,046	307,819	9,088	162,733	\$570,384	\$4,962,366	1,927
NEWTOWN	\$578,776	1,075,811	12,318,889	170	17,979	279,834	17,464	310,104	\$248,779	\$3,339,418	876
NORFOLK	\$37,757	82,121	1,001,903	18	0	0	902	15,085	\$16,059	\$211,567	53
NORTH BRANFORD	\$88,101	206,863	2,368,423	60	1,226	18,442	2,432	43,868	\$42,208	\$548,754	143
NORTH CANAAN	\$54,209	148,751	1,688,119	15	0	0	317	4,360	\$24,048	\$275,824	79
NORTH HAVEN	\$1,163,187	5,670,309	38,712,842	659	21,903	381,689	35,339	600,220	\$1,026,149	\$8,596,951	3,440
NORTH STONINGTON	\$46,906	55,541	656,913	10	3,880	77,600	1,654	24,458	\$18,477	\$266,822	73
NORWALK	\$3,181,479	27,320,638	142,223,798	2,603	151,609	2,661,307	17,122	324,818	\$4,400,577	\$25,555,398	14,857
NORWICH	\$908,824	3,590,486	28,579,013	238	0	0	0	0	\$551,140	\$4,386,879	1,803
OLD LYME	\$302,164	359,884	4,168,496	84	0	0	12,180	191,012	\$101,890	\$1,371,439	339
OLD SAYBROOK	\$439,225	1,191,992	10,252,475	125	2,192	34,477	5,264	92,447	\$205,175	\$1,959,956	680
ORANGE	\$628,992	6,781,345	34,041,742	706	6,476	92,276	7,774	133,365	\$1,076,745	\$5,822,186	3,546
OXFORD	\$163,693	363,632	3,784,785	36	1,046	19,154	4,369	71,510	\$73,527	\$872,696	246
PLAINFIELD	\$456,447	1,198,409	9,374,851	124	17,288	258,480	8,897	108,816	\$234,140	\$2,096,673	822
PLAINVILLE	\$414,837	1,688,021	19,489,897	135	8,345	156,927	5,268	90,612	\$287,064	\$3,484,978	967
PLYMOUTH	\$259,506	620,662	7,831,557	65	1,679	25,414	3,825	57,481	\$111,487	\$1,445,977	372
POMFRET	\$83,129	250,486	2,878,859	32	0	0	1,798	17,790	\$45,337	\$510,039	149
PORTLAND	\$267,014	903,050	10,359,739	85	1,014	15,801	5,269	82,265	\$159,746	\$1,920,021	528
PRESTON	\$129,803	187,009	2,467,890	11	0	0	1,192	15,438	\$33,271	\$437,950	109
PROSPECT	\$196,166	404,667	4,565,023	42	615	9,233	3,709	55,483	\$76,895	\$921,833	255
PUTNAM	\$429,055	1,547,699	16,063,991	152	1,058	11,436	4,636	53,105	\$256,316	\$2,679,872	844
REDDING	\$146,096	306,554	3,748,964	35	0	0	6,064	110,962	\$70,280	\$1,000,449	233
RIDGEFIELD	\$886,966	2,032,873	23,582,961	410	441	6,983	28,813	538,501	\$422,810	\$5,688,950	1,399
ROCKY HILL	\$895,059	2,136,693	21,743,505	304	18,500	268,203	4,348	72,706	\$361,875	\$3,866,024	1,241
ROXBURY	\$32,392	44,218	567,942	5	0	0	1,346	20,480	\$11,941	\$165,619	40
SALEM	\$45,165	87,366	977,305	7	0	0	1,515	22,568	\$19,212	\$236,450	64
SALISBURY	\$267,907	440,526	5,613,207	50	0	0	6,328	102,586	\$91,858	\$1,254,532	304
SCOTLAND	\$7,361	17,331	146,120	1	66	645	416	6,202	\$4,313	\$46,786	15
SEYMOUR	\$191,542	350,531	3,878,368	67	7,735	122,087	6,603	103,296	\$86,306	\$1,104,721	309
SHARON	\$46,435	31,618	352,183	4	0	0	2,123	43,722	\$12,985	\$221,515	44
SHELTON	\$1,174,497	3,371,951	41,400,778	467	40,382	777,494	16,346	271,914	\$617,831	\$8,120,975	2,150
SHERMAN	\$61,317	107,938	1,820,271	12	0	0	2,751	46,500	\$27,106	\$457,507	90
SIMSBURY	\$381,950	606,184	6,546,860	79	21,417	339,039	11,818	192,719	\$158,268	\$2,058,995	587
SOMERS	\$124,459	171,219	2,072,693	29	0	0	4,280	64,301	\$42,675	\$564,432	142
SOUTH WINDSOR	\$909,966	2,322,910	31,108,292	382	14,129	257,549	9,734	160,591	\$407,015	\$5,630,188	1,378
SOUTHBURY	\$319,639	664,326	7,216,916	98	1,970	33,960	7,231	109,028	\$131,506	\$1,557,021	440
SOUTHINGTON	\$1,356,624	6,432,217	47,128,157	702	30,122	524,391	11,919	180,777	\$1,061,065	\$8,415,214	3,567
SPRAGUE	\$24,241	31,170	287,325	4	0	0	1,591	26,439	\$10,877	\$145,366	36
STAFFORD	\$940,525	1,941,296	29,761,827	176	0	0	6,156	92,367	\$321,567	\$4,922,208	1,055
STAMFORD	\$3,128,508	7,237,808	83,380,538	751	183,577	2,370,251	21,306	393,764	\$1,363,677	\$16,515,793	5,019
STERLING	\$28,417	37,526	286,491	4	45	318	2,590	34,691	\$15,722	\$177,139	53
STONINGTON	\$579,665	962,683	12,133,896	85	1,368	21,877	11,003	156,584	\$191,187	\$2,482,657	635
STRATFORD	\$1,645,491	11,892,966	121,378,149	773	67,209	1,216,406	6,371	109,276	\$1,912,603	\$20,183,606	6,461
SUFFIELD	\$226,903	306,996	3,064,722	51	5,954	92,109	6,508	95,508	\$77,597	\$922,064	275
THOMASTON	\$97,240	215,368	2,384,999	31	546	4,464	3,107	45,051	\$45,469	\$542,801	152
THOMPSON	\$290,323	478,058	6,860,982	51	110	741	4,517	53,300	\$90,784	\$1,257,989	300



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TOLLAND	\$238,199	476,589	5,942,341	53	44	874	5,075	74,272	\$92,633	\$1,197,424	306
TORRINGTON	\$939,575	3,768,882	33,515,812	403	13,137	158,015	12,532	191,010	\$638,764	\$6,023,495	2,135
TRUMBULL	\$679,609	2,652,356	24,601,950	313	13,832	236,900	10,651	185,632	\$460,820	\$4,708,131	1,554
UNION	\$3,374	17,399	208,619	3	0	0	170	1,680	\$3,322	\$38,456	11
VERNON	\$448,604	949,877	9,918,992	171	12,403	171,424	11,050	157,986	\$199,684	\$2,287,396	696
VOLUNTOWN	\$14,220	32,481	407,747	4	0	0	502	4,304	\$6,908	\$79,073	23
WALLINGFORD	\$1,760,902	8,935,129	59,121,580	928	12,822	208,199	0	0	\$1,383,491	\$9,269,179	4,565
WARREN	\$7,010	6,322	92,905	1	0	0	105	2,632	\$1,374	\$24,343	5
WASHINGTON	\$53,182	78,255	831,786	13	0	0	2,082	33,720	\$19,986	\$256,826	66
WATERBURY	\$2,309,697	18,507,449	117,829,260	2,084	45,277	605,910	30,846	471,799	\$3,001,224	\$20,458,413	9,969
WATERFORD	\$904,474	7,554,128	44,063,354	797	2,368	35,647	10,777	161,400	\$1,203,041	\$7,415,107	3,948
WATERTOWN	\$659,371	1,705,562	21,268,632	299	2,601	36,959	10,656	174,235	\$305,042	\$3,966,497	1,011
WEST HARTFORD	\$2,122,911	10,200,195	76,481,779	1,151	65,983	1,075,563	21,215	370,347	\$1,708,470	\$14,160,667	5,797
WEST HAVEN	\$683,691	1,498,806	14,484,085	202	59,357	967,610	7,977	141,418	\$315,930	\$3,666,626	1,214
WESTBROOK	\$151,811	389,459	4,792,325	59	300	3,953	4,009	74,013	\$75,414	\$1,022,777	250
WESTON	\$337,725	575,896	6,195,638	82	9,368	115,060	8,656	156,086	\$130,282	\$1,656,061	458
WESTPORT	\$1,237,383	1,552,170	17,265,659	339	18,585	338,481	40,906	771,288	\$412,249	\$5,919,731	1,424
WETHERSFIELD	\$555,021	844,555	9,138,934	107	21,207	375,538	7,327	133,603	\$177,463	\$2,264,476	647
WILLINGTON	\$121,606	264,506	3,155,600	30	0	0	3,683	53,932	\$54,707	\$690,945	181
WILTON	\$777,895	1,218,615	13,736,016	249	282	5,878	23,480	439,902	\$277,250	\$3,798,779	919
WINCHESTER	\$289,296	626,778	7,402,257	92	15,525	184,515	4,967	73,875	\$129,701	\$1,591,133	473
WINDHAM	\$628,292	4,648,848	27,674,028	507	7,967	110,173	9,598	123,350	\$757,784	\$4,823,062	2,508
WINDSOR	\$1,283,243	3,714,328	42,889,763	520	24,341	342,342	17,289	310,362	\$659,048	\$8,091,284	2,237
WINDSOR LOCKS	\$485,411	1,576,775	18,116,453	168	5,688	102,896	6,156	115,148	\$270,911	\$3,317,777	906
WOLCOTT	\$195,262	287,219	2,954,480	48	823	14,212	7,161	117,254	\$72,283	\$915,838	242
WOODBIDGE	\$296,305	1,073,445	14,271,518	181	611	13,745	7,180	125,984	\$192,842	\$2,686,004	636
WOODBURY	\$179,022	258,601	2,165,848	29	1,224	19,362	7,441	134,146	\$69,335	\$864,281	234
WOODSTOCK	\$156,147	242,050	3,190,526	25	0	0	2,815	33,308	\$47,936	\$617,314	158

2011 Actual Spending / 2012 Budget

Conservation and Load Management Fund Programs	2011 Actuals Electric	2012 Plan Electric	2011 Actuals Natural Gas	2012 Plan Natural Gas
RESIDENTIAL				
Residential Retail Products	\$ 10,418,102	\$ 6,605,855	\$ —	\$ —
Total - Consumer Products	\$ 10,418,102	\$ 6,605,855	\$ —	\$ —
Residential New Construction	1,687,263	1,438,329	2,039,511	1,250,000
Home Energy Solutions (HVAC, Duct Sealing, Lighting)	18,397,057	14,038,658	4,113,178	9,047,769
HES Income Eligible	16,006,665	11,517,793	4,985,022	6,664,317
Water Heating	—	—	135,091	156,266
Subtotal Residential	\$46,509,086	\$33,600,635	\$11,272,803	\$ 17,118,352
COMMERCIAL & INDUSTRIAL				
C&I LOST OPPORTUNITY				
Energy Conscious Blueprint	\$ 11,406,295	\$ 10,889,221	\$ 3,978,019	\$ 7,579,538
Total - Lost Opportunity	\$ 11,406,295	\$ 10,889,221	\$ 3,978,019	\$ 7,579,538
C&I LARGE RETROFIT				
Energy Opportunities	28,602,910	16,198,999	3,107,499	5,667,448
O&M Services/Retro Commissioning/BSC	2,701,822	4,802,298	305,672	699,113
Prime	527,977	601,141	—	—
Total - C&I Large Retrofit	\$ 31,832,709	\$ 21,602,438	\$ 3,413,171	\$ 6,366,561
Small Business	13,400,183	13,867,636	—	626,288
Subtotal C&I	\$ 56,639,187	\$ 46,359,295	\$ 7,391,190	\$ 14,572,387
OTHER - EDUCATION				
Smart Living Center/Museums	\$ 670,120	\$ 881,746	\$ —	\$ —
EE Communities	522,262	1,300,000	—	—
EE Smarts/K-8 Education	589,848	726,825	—	—
Science Center	—	208,000	—	—
Subtotal Education	\$ 1,782,231	\$ 3,116,571	\$ —	\$ —
OTHER - PROGRAMS/REQUIREMENTS				
Institute for Sustainable Energy (ECSU)	\$ 560,000	\$ 560,000	\$ —	\$ —
Residential Loan Program (Including CHIF)	3,640,123	2,398,709	178,168	630,000
C&I Loan Program	56,800	550,000	—	225,000
C&LM Loan Defaults	108,743	200,000	—	—
Subtotal Programs/Requirements	\$ 4,365,666	\$ 3,708,709	\$ 178,168	\$ 855,000
OTHER - LOAD MANAGEMENT				
ISO Load Response Program	\$ 4,955,923	\$ 4,876,000	\$ —	\$ —
Subtotal Load Management	\$ 4,955,923	\$ 4,876,000	\$ —	\$ —
OTHER - RD&D				
Research, Development & Demonstration	\$ 105,499	\$ 575,000	\$ —	\$ —
Subtotal RD&D	\$ 105,499	\$ 575,000	\$ —	\$ —

Conservation and Load Management Fund Programs	2011 Actuals Electric	2012 Plan Electric	2011 Actuals Natural Gas	2012 Plan Natural Gas
OTHER - ADMINISTRATIVE & PLANNING				
Administration	\$ 1,573,939	\$ 1,650,000	\$ 14,511	\$ —
Planning and Evaluation	1,448,683	3,546,765	385,857	1,441,500
Information Technology	2,083,326	2,042,500	97,367	142,500
EEB	710,963	850,000	35,174	74,250
Performance Management Fee	4,808,671	4,986,273	—	—
Marketing Plan	27,912	250,000	—	—
Subtotal Other	\$ 10,653,494	\$ 13,325,538	\$ 532,910	\$ 1,658,250
PROGRAM SUB-TOTALS				
Residential	\$ 51,715,293	\$ 38,837,966	\$ 11,450,971	\$ 17,748,352
C&I	\$ 62,004,713	\$ 52,513,244	\$ 7,391,190	\$ 14,797,387
Other	\$ 11,291,081	\$ 14,210,538	\$ 532,910	\$ 1,658,250
TOTAL C&LM BUDGET	\$ 125,011,086	\$ 105,561,748	\$ 19,375,071	\$ 34,203,989
Docket 05-07-14 PH01 EIA programs				
ISO Load Response Programs (Load Curtailment & Emer. Gen)	\$ 1,350	\$ —	\$ —	\$ —
Subtotal Docket 05-07-14PH01 EIA Programs	\$ 1,350	\$ —	\$ —	\$ —
Total C&LM and EIA Programs	\$125,012,436	\$105,561,748	\$19,375,071	\$ 34,203,989

Footnote 1: 2012 Electric Plan is the Base budget filed on October 1, 2011

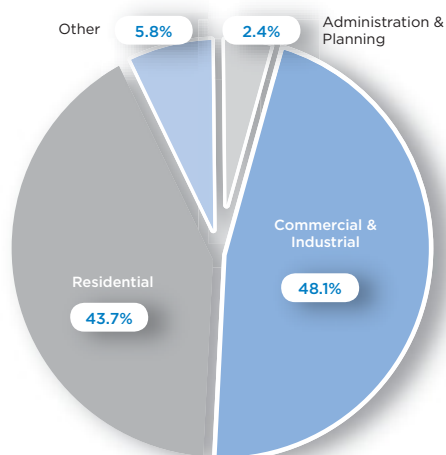
Footnote 2: 2012 Gas Plan is the increased scenario budget Decision December, 2011

Totals Vary Due To Rounding.

2011 Efficiency Program Spending

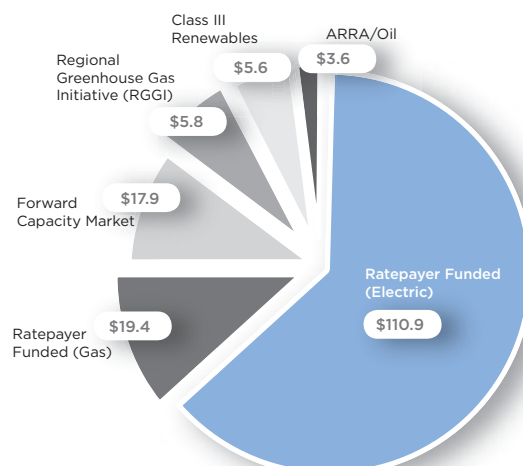
Energy Efficiency Fund programs are administered to maximize the cost-effectiveness and impacts of energy efficiency and load management activities.

Administrative costs accounted for only 2.4 percent of actual spending in 2011.



2011 Efficiency Program Funding

Funding for energy efficiency programs comes from many sources. Funding reflects 2011 revenues received. (in Millions)





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, is owned by the Cities of Groton and Norwich, the Borough of Jewett City, and South and East Norwalk. In addition, CMEEC provides all power requirements to these participating utilities: Town of Wallingford Department of Public Utilities, Bozrah Light and Power Company, and the Mohegan Tribal Utility Authority. Energy use and its cost continue to be of critical importance to all Connecticut residents and businesses. In 2011, CMEEC Member Electric Utilities (MEUs) continued their proactive work and active partnerships with their municipalities, commercial and industrial businesses, residents and limited-income customers.

By supporting the energy supply, transmission and distribution needs of all customer sectors, MEUs serve as integrated energy managers helping to reduce and reshape energy use and assisting the entire spectrum of customers to lower monthly bills. In 2011, MEUs realized annual savings of 17,354,508 million kilowatt-hours and peak demand savings of 1.5 megawatts. These savings were achieved through the delivery of a full array of efficiency programs. In total, more than 14,250 customers participated in the energy efficiency programs.

Serving Residential Customers

The MEUs delivered a complete portfolio of energy efficiency programs in 2011. Residential program efforts were centered on the flagship Home Energy Savings program. The Home Energy Savings program provides comprehensive whole-house retrofit services with a number of consumer incentives to residential and limited income customers. Program measures include blower door testing and air leak sealing, duct testing and sealing, installation of compact fluorescent light bulbs (CFLs), as well as installation of water and hot water efficiency devices and pipe insulation. CMEEC's authorized contractors and local utility personnel assist customers with the procurement of attic insulation and provide quality control and program governance. Efforts are coordinated locally with incentive offers from the natural gas companies. In 2011, MEUs provided Home Energy Savings services to over 3,800 homes or residential housing units. The pilot residential loan program continued in 2011 at one of the MEUs. Residential customers may access low or no-interest loans for major energy saving measures. Plans to expand the program to additional systems in 2012 are under consideration.

In 2011, MEUs continued the distribution of CFLs using a variety of sales channels. The systems employed direct distribution through local service centers and other available community activities and organizations, as well as through direct mail offers. The Home Energy Savings program provides and installs CFLs at customer locations as a major component. CMEEC also continued the Negotiated Cooperative Purchase program, utilizing major chain stores and local retailers. MEUs distributed over 217,000 CFLs in 2011, bringing the total distribution to nearly 1,000,000 bulbs since the program's inception in 2006.

Commercial & Industrial Advances

CMEEC's commercial and industrial initiatives include both prescriptive and custom elements and offer customers incentives for retrofit and new construction projects. Rebates for commercial and industrial customers included lighting, motor replacements, heating, ventilation and air conditioning (HVAC) units and special efforts to engage small businesses. MEUs also work closely with the largest customers on load response efforts to reduce customer peak demand.

Smart Grid Project

CMEEC's Smart Grid project continued to be a major focus for several MEUs in 2011. The project involves deploying advanced two-way meters for the majority of commercial customers as well as many residential accounts. The utilities will utilize data from these meters to enable time-differentiated rates over discrete time intervals. Thus, customers will have the opportunity to reduce their electric bills by reducing electricity usage and shifting usage away from peak-demand times. As the project proceeds over the next year, energy efficiency program efforts will be integrated with Smart Grid capabilities. Taken together, these two programs offer exciting opportunities to serve customers better and help them use energy even more efficiently.



Geothermal installation



Solar photovoltaic installation

Renewable Projects

In 2011 MEUs continued to complete solar photovoltaic installations in conjunction with the master program management agreement with CEFIA. This agreement contributes to continuity of solar installations on a statewide basis. Several systems were installed with the largest being a 70 kilowatt system in Wallingford. In addition, a geothermal heat pump system was installed at the headquarters building of the Wallingford Water Department. In a groundbreaking initiative, one of the first hydrogen refueling stations in the country was installed in Wallingford.

Community Education

In 2011 the MEUs continued to provide a grant to the Institute for Sustainable Energy (ISE) to provide extensive outreach in the MEUs communities. The purpose of the grant is to encourage the participation of town and city agencies and officials in energy efficiency-related activities and educational programs provided by the ISE. The arrangement provides comparable programs and parity with those which are currently offered throughout the state. Specific programs include ENERGY STAR Portfolio Manager Benchmarking, Keep Connecticut Cool: The Climate Challenge, building code updates and training, Green Schools, and K-12 school/municipal building operators training.

Connecticut Municipal Electric Energy Cooperative ...continued from previous page.

2011 CMEEC Program Highlights



Customers Served

14,235



Energy Savings

(kWh = Electricity)

kWh Annual
17.4 Million

kWh Lifetime
130.4 Million



Annual Savings

\$2.8 Million



MMBTUs

Annual

59.2 Thousand

Lifetime

445.1 Thousand



Lifetime Savings

\$20.9 Million



CO₂ Emissions Reduced

8,341 Tons (Annual)

NO_x Emissions Reduced

2.7 Tons

SO_x Emissions Reduced

4.65 Tons



CMEEC Assistance to Customers (Rounded to \$ thousands)

This table details the incentives and rebates provided to CMEEC residential and commercial and industrial customers in 2011.

Bozrah Light and Power	\$71,000
Groton Utilities	\$853,000
Jewett City Department of Public Utilities	\$58,000
South Norwalk Electric and Water	\$896,000
Norwalk Third Taxing District	\$ 123,000
Norwich Public Utilities	\$226,000
Wallingford Electric Division	\$1,678,000

Program	Program Budget 2011	Actual Utility Costs 2011	% of Budget Spent	Proj Annual Savings (kWh)	Annual Energy Savings (kWh)	% of Annual kWh Saved	Lifetime Savings (kWh)	2011 Proj. kW Impact	Actual kW Impact	% of kW Impact Achieved	Summer Peak kW Demand Reduction
Residential											
Home Energy Savings Program	\$ 1,666,500	\$ 1,679,332	101%	2,472,240	7,510,158	304%	54,824,153	1,667	859	52%	236
Efficient Products											
Lighting	\$ 250,300	\$ 547,829	219%	2,544,973	6,053,013	238%	24,216,731	3,094	4,067	131%	639
Appliances	\$ 223,600	\$ 293,015	131%	89,386	52,118	58%	820,849	79	59	74%	59
Subtotal - Residential	\$ 2,140,400	\$ 2,520,177	118%	5,106,599	13,615,289	267%	79,861,732	4,840	4,985	103%	934
Commercial											
Commercial New Construction	\$ 6,200	\$ 4,020	65%	0	53,480	—	802,200	0	6	—	4
Prescriptive Equipment Replacement	\$ 49,600	\$ 68,022	137%	30,081	69,386	231%	965,365	19	22	113%	22
C&I Existing Facility Retrofit	\$ 3,154,800	\$ 1,159,428	37%	11,251,588	3,576,160	32%	48,005,319	2,771	777	28%	540
Subtotal - Commercial	\$ 3,210,600	\$ 1,231,469	38%	11,281,669	3,669,026	33%	49,772,883	2,791	805	29%	565
Renewables	\$ 940,000	\$ 153,707	16%	0	40,193	—	782,640	0	30	0%	30
Total - All Programs	\$ 6,291,000	\$ 3,905,353	62%	16,388,267	17,354,508	106%	130,417,256	7,631	5,820	76%	1,529

Notes: 1. Data for the Limited Income Customers is included under the Home Energy Savings Program.
 2. ARRA and RGGI funds are included under Actual Utility Costs.
 3. HES Savings include the kWh conversion of BTU reductions from weatherization measures.



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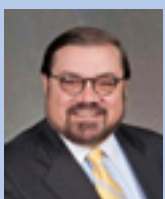
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Light & Power**
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Connecticut Energy Efficiency Fund

Activities in 2011 Produced Substantial Economic and Environmental Benefits for Residents, Businesses and Municipalities



Customers Served

Number of Households Served
714,580

Number of Businesses Served
4,263



Energy Savings

kWh Annual
394 Million

kWh Lifetime
3.2 Billion

CCF Annual
4.8 Million

CCF Lifetime
80.5 Million

Gallons Annual
1.3 Million

Gallons Lifetime
21.7 Million



Air Emissions Reduced

CO₂ 2.4 Million Tons (Lifetime)

SO_x 384 Tons (Lifetime)

NO_x 296 Tons (Lifetime)



Dollars Saved

Annual \$72.0 Million

Lifetime \$645.8 Million



MMBTUs

Annual
2.0 Million

Lifetime
22.3 Million

Connecticut's Energy Efficiency Programs are funded by a charge on customer energy bills. The Programs are designed to help customers manage their energy usage and cost.

Energy Efficiency Board

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