



Efficiency Vermont

2012
annual highlights



6
efficiency success stories



1.8%

reduction in Vermont's
electric supply requirements



\$206M

in lifetime
customer savings



2,630

contractor, retailer, and
supplier partnerships

EFFICIENCY VERMONT for Vermonters, by Vermonters

Over the last 12 years, Efficiency Vermont has worked with homeowners and businesses across our state, helping them reduce their costs and meet their energy goals. The lifetime customer savings resulting from our work in 2012 alone was \$206 million.

By partnering with our customers, Efficiency Vermont makes it easy for them to take action. Through community engagement, peer-to-peer learning, and in-depth consultation, Vermonters gain access to unbiased technical expertise that leads to clear next steps for boosting efficiency. Together we are pushing the envelope on what's possible—driving down energy use and costs home by home, business by business. This frees up resources that strengthen our economy and promote jobs, while helping to reduce our impact on the environment.

The impact of Efficiency Vermont's work has been broad and deep. We have fostered local economic growth, reduced carbon emissions associated with energy use, and engaged hundreds of communities in coming together to define their energy future. In the end, energy efficiency is most successful when it's a collaborative effort—when all of us take steps small and large. In Vermont we are all living that success, together.

2012 by the



1,100

whole-house energy
projects completed



217,000

energy-efficient lightbulbs
distributed through the
Vermont Food Bank



4,300

low income households
took action



42,500

total households
took action



1,890

small business
customers took action



912,000

MWh projected lifetime
savings by businesses,
equivalent to powering
134,000 homes for one year



2.7M

MMBtu projected lifetime
savings on all energy
efficiency measures,
equivalent to heating 22,000
homes for one year

numbers



\$580

saved per year



25

MMBtu saved per year



120

KWh saved per year



ROXBURY COMMUNITY HALL

Roxbury turns adversity into opportunity

“Working with Efficiency Vermont allowed us to incorporate electrical and air quality upgrades along with air sealing and insulation, to create a building that the community can afford to operate well into the future.”

PAUL ZABRISKIE,
ENERGYSMART OF VERMONT

In 2011, the historic Roxbury Community Hall suffered extensive damage in Tropical Storm Irene.

Rather than simply restoring the hall to its original state, the town’s energy committee decided to take advantage of the opportunity to rebuild, and renovate the building in a way that would ensure maximum energy efficiency and financial sustainability for years to come.

From air sealing and insulation to moisture remediation throughout, no corner of the building was left untouched. The most notable improvements came from separating the second floor, used only for storage, from the conditioned spaces below. Efficiency Vermont worked with the Roxbury Energy Committee and EnergySmart of Vermont, providing technical expertise and overseeing quality control throughout the rebuilding process.

Today, the Roxbury Community Hall remains an important gathering place, and is one of the most-used and most-loved buildings in the town.

Project Partners: EnergySmart of Vermont; and Roxbury Energy Committee



\$745

saved per year



35

MMBtu saved per year



140

KWh saved per year



LOWRIE & BENVENUTO HOME

Family home goes from drafty to cozy

“We knew there was a lot to do, but didn’t know where to start. The contractor’s guidance on prioritizing was a big help.”

ANNABELLE LOWRIE,
JERICHO

Annabelle Lowrie and Michael Benvenuto knew their Jericho farmhouse needed some work. The bills were high, the home was drafty, and when they went down to the basement to do the laundry in the winter they could actually see their breath.

Home Performance with ENERGY STAR® contractor Building Energy conducted an audit of the home and presented a list of solutions; then helped the homeowners prioritize next steps. They air sealed and insulated the attic and basement, as well as the area where the home’s original 1850s construction met the more modern 1900s addition.

Today, the house is much more comfortable, while requiring less fuel. In fact, the oil company recently contacted the homeowners after doing a routine fill-up: They’d noticed how little oil had been used and wanted to be sure the family was doing okay. The homeowners are happy to report they’re doing better than ever.

Project Partner: Building Energy



\$266,000

saved per year



2,133,000

KWh saved per year

BURLINGTON AIRPORT

Reducing energy costs while increasing business

“These investments in energy efficiency are already generating savings for taxpayers, and the new interactive displays throughout the airport will showcase Burlington as a dynamic, forward-thinking, and sustainable city to all our visitors.”

MAYOR MIRO WEINBERGER,
BURLINGTON

Burlington International Airport, located in South Burlington, needed to expand and upgrade its facilities to meet demand for flights into and out of northern Vermont. At the same time, South Burlington was quickly approaching maximum electric load, using almost as much energy as the power company could provide. If something didn't change soon, the city would need to increase infrastructure and build a new substation, at huge expense to residents.

The airport and its power provider, Burlington Electric Department, approached Efficiency Vermont and together, we reduced the airport's power usage by 20%, even as operations expanded significantly. How? Through innovative, energy-efficient approaches to interior lighting, exterior lighting, and climate control.

Today, visitors to Burlington International Airport can view an interactive exhibit that highlights the work they've done, and the difference it's making. You can learn more by scanning the code to the right, or by visiting www.encyvermont.com/btv.



Project Partners: Benoit Electric; Burlington Electric Department; Control Technologies; Cx Associates; Engelberth Construction; Hallam-ICS; Thomas Mechanical; and Yankee Plumbing & Heating



\$640

saved per year



4,930

KWh saved per year



Accelerating profits by driving down energy costs

“The process was incredibly simple. Our contractor handled everything and we saw the benefit immediately.”

RYAN MOLLEUR, VICE PRESIDENT
OF TRISTAR MOTORS

Robert Molleur’s Hardwick car dealership needed some new exterior lights, so he visited Efficiency Vermont’s website. He knew he would find information on the best choices for energy-efficient lighting, and maybe even some rebates to help him make an upgrade. What he didn’t know was just how happy he would be with the lighting he chose, or how much money it would actually save him.

Molleur upgraded three exterior wall fixtures to LEDs, purchased from a local electrical distributor found on Efficiency Vermont’s website and made affordable through a rebate. Right away, he and his staff noticed a marked difference in the quality of the light: it was bright and uniform, and even the color was improved.

It wasn’t until a month later, though, that Molleur realized the full benefits of the new lights when he opened his electric bill. His monthly savings quickly paid off the initial expense of the bulbs themselves, and Molleur has been able to invest the money back into his business.

Project Partner: Nudd Electric



\$104,160

saved per year



2,150

MMBtu saved per year



460,000

KWh saved per year



A win for affordable housing and the environment

“Our investments in energy efficiency have cut the per-square-foot energy cost by approximately 50%. We can pass these savings directly on to our residents, by keeping their rents at an affordable level.”

KATHY BEYER, VICE PRESIDENT OF DEVELOPMENT, HOUSING VERMONT

Vibrant downtowns are essential to our quality of life and, like anything else, they require ongoing investment to remain essential. The newly constructed building on the corner of Canal and Main Streets in Brattleboro is an example of this type of investment. For the vision and leadership of the community, Canal and Main received the 2012 National Award for Smart Growth Achievement from the U.S. Environmental Protection Agency.

Designed as a high-performing, mixed-use building, Canal and Main hosts the Brattleboro Food Co-op and 24 apartments on the upper stories, 19 of which are permanently affordable to households earning 60% of median income or less.

Working with Efficiency Vermont and an efficiency consultant, the architects incorporated state-of-the-art energy-saving features, such as a superinsulated building envelope, a green roof for rainwater management and insulation, and an innovative system that captures waste heat from the Co-op refrigerators to heat the housing units. These steps save the equivalent of 24,000 gallons of propane per year.

Project Partners: Brattleboro Food Co-op; Housing Vermont; Andy Shapiro of Energy Balance; Vermont Housing & Conservation Board; and Windham & Windsor Housing Trust



\$348,000

cumulative savings
through 2012



23,780

KWh saved in 2012

VERMONT PRECISION TOOLS

Continuous Energy Improvement pays off

“Efficiency Vermont’s technical expertise and easy-to-work-with personalities, have made them an invaluable partner in our energy initiatives. Their understanding of ROI and unbiased opinions are a great fit for us.”

RICHARD PAQUETTE,
CHIEF OPERATING OFFICER,
VERMONT PRECISION TOOLS

With a strong commitment to energy savings, Vermont Precision Tools’ partnership with Efficiency Vermont exemplifies an approach called Continuous Energy Improvement. This approach, which includes regular maintenance, capital upgrades, process improvements, and employee engagement, can yield impressive energy savings.

Founded in 1968, Vermont Precision Tools is a locally owned company that manufactures high-precision tools for industrial applications. Located in Swanton, the company employs 150 people in a 90,000-square-foot facility, plus 115 people in a second plant in Kentucky.

Since 2000, Efficiency Vermont has worked side-by-side with Vermont Precision Tools to take a comprehensive look at energy use. The relationship began more than a decade ago during the construction of their Swanton facility. A few years later, efficiency upgrades to their compressed air system were implemented, along with lighting and HVAC improvements, some of which are still under way. The relationship is almost as old as Efficiency Vermont itself, resulting in accumulated savings of \$348,000.

Project Partners: Air Power USA, Inc.; Stephen Booth, PE; H.W. Ashline & Sons, Inc.; Pearson & Associates; and Vermont Gas Systems



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The 2012 data presented herein are based on Efficiency Vermont's estimates of preliminary savings as claimed by the Vermont Energy Investment Corporation, the implementor of Efficiency Vermont. Each spring, the savings are subject to an in-depth verification process conducted by the Public Service Department. A written report and recommendation go to the Vermont Public Service Board, which makes a final certification of the savings that can be claimed. In this flyer, data used from 2000 through 2011 were drawn from the final, verified Efficiency Vermont Annual Reports for those years. Across eleven years, the average adjustment between the preliminary energy savings claimed by Efficiency Vermont and the final certified savings amount has been a reduction of 6.0%.

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