

Saving Energy is Good Business Economic Impacts for Breweries

Efficiency
Vermont

Sector Lifetime Savings
Through Efficiency Work

34,500 MWh | \$4 Million

Impact Data at a Glance



Photo courtesy of Harpoon Brewery

Vermont has earned a reputation for not just its high amount of independent breweries per capita, but also for its quality beer. Despite having an energy-intensive production process, more business owners are jumping in to brewing to meet the demand for carefully-crafted brews.

Efficiency Vermont knows that working with breweries to minimize energy use has impacts that are broad and deep. Energy savings allow these small businesses to maintain competitiveness, increase distribution, and free up capital for future growth.

Northshire Brewery - Bennington
Saved: \$13,000 per year | 54,000 total kWh per year

Northshire Brewery owner Chris Mayne contacted Efficiency Vermont when he realized that his equipment was using far too much power. Efficiency Vermont helped identify the issue and solution, plus helped to secure financing for the brewery. Between financing and cash incentives, the project was cash flow positive from day one; the monthly savings more than covered Mayne's monthly loan payment.

1,575
brewery jobs
in Vermont

\$199 million
in total economic
activity
World-Class Beer
Beer Tourism

55 customers
have completed a
project with us in
the last 5 years

Types of Projects:
Compressed Air
Refrigeration
Commercial Kitchen
Equipment
Lighting
Motors/Drives



"After doing this project with Efficiency Vermont, I was able to make more informed decisions about how to run my company, and spend more time making beer instead of worrying about some of the other things that were going on behind the scenes."

**Chris Mayne, Owner,
Northshire Brewery, Bennington**

Saving Energy is Good Business Economic Impacts for Hospitals



**Sector Lifetime Savings
Through Efficiency Work**

461k MWh

\$63 Million



Hospitals have a multitude of levers at their disposal for decreasing operating costs, yet not many have a dual benefit. Energy efficiency creates that extra benefit through not only lowering energy expenses but creating better patient care through brighter, more comfortable spaces.

Efficiency Vermont knows that working with hospitals to minimize energy use has impacts that are broad and deep. Energy savings allow these critical institutions to lower overall operating costs, which translate to increased patient comfort and overall community health through lower environmental impact.

UVM Health Network - Central Vermont Medical Center, Berlin Saved: \$616,000 per year | 28% energy use reduction

When the CVMC Energy Savings Initiative began in 2010, the facility ranked in the bottom 25% of hospitals nationally for energy performance. Working closely with partners, including Efficiency Vermont, CVMC embarked on a multi-faceted initiative to improve efficiency. A hospital-wide energy audit was translated to an energy master plan that investigated most energy-using systems including lighting, HVAC, fuel conversion and an employee engagement campaign.

Impact Data at a Glance

All 16 hospitals in Vermont (including Brattleboro Retreat) have completed a project with us in the last 5 years

Types of Projects:

Large Heating

Cooling Loads

Thermal Fuel
(accounts for more than half of energy costs)

Lighting

Plug Loads

Water savings, air quality and thermal comfort benefits are mission critical to patient outcomes



"Achieving ENERGY STAR® designation through our Energy Savings Initiative has demonstrated our commitment to environmental stewardship, lowered our energy costs and provided a healing environment for our patients where spaces are lit and conditioned to industry best practices."

**Richard Morley, VP Support Services,
UVM Health Network**

Saving Energy is Good Business Economic Impacts for Agriculture



**Sector Lifetime Savings
Through Efficiency Work**

450k MWh

\$56 Million



To keep our storied farming traditions viable and more resilient to fluctuating market prices, expenses must be held at bay. Energy efficient milking and sugaring production, along with lighting improvements, are keeping farmers working and allowing generations to continue their family tradition.

Efficiency Vermont knows that working with farms to minimize energy use has impacts that are broad and deep. Energy savings allow these farms to keep their barns bright with efficient lighting, which in turn increases safety, while minimizing electricity costs through efficient barn fans and refrigeration.

Brace Farm, Ferrisburgh | \$94,700 Lifetime Savings

Over four million pounds of milk are shipped from Brace Farm every year. Collecting, cooling, and shipping this volume of milk is an energy-intensive process, and keeping the barns lit and properly ventilated adds to the farm's energy requirements. Owners Alex and Michelle Brace work with Efficiency Vermont and Reed's Equipment of Addison to manage their upgrades which included coolers, heat recovery units, fan replacements and lighting.

Impact Data at a Glance

9,216 On-Farm Hired Workers

50,000 Non-Farm
Food-Related Jobs

7,300 Farms, 850 Dairies,
1,500 Sugar Makers,
300 Greenhouse Operators

\$775 million
in economic activity annually

1,018 customers have
completed a project with us
in the last 5 years

Types of Projects:

- Lighting
- Ventilation
- Pumps/Motors/Drives
- Reverse Osmosis
- Vacuum Pumps/VFDs
- Sap Preheaters
- Refrigeration

Benefits:

- Dairy: Herd Health, Worker Safety, Milk Quality
- Sugaring: Time and Cost Savings
- Greenhouse: Reduce Product Spoilage



"Working with Reed's Equipment and Efficiency Vermont has been easy, and the energy efficient upgrades are making a real difference."

Alex Brace, Brace Farm Incorporated

Saving Energy is Good Business Economic Impacts for Wastewater Treatment



**Sector Lifetime Savings
Through Efficiency Work**

128k MWh

\$12 Million



Treating Vermont's wastewater is an energy-intensive operation that is often directly tied to municipal management costs carried by all Vermont taxpayers. Manufacturing and other industrial facilities who invest in efficiency measures to treat their wastewater can apply their energy savings into business growth and increased production.

Efficiency Vermont knows that working with businesses and municipalities to control energy costs creates impacts broad and deep. Efficiency measures are not only reducing operating costs and tax burdens but are also affecting the effectiveness of the treatment process, creating a greener, healthier Vermont.

Waterbury Wastewater Treatment Facility | \$40,700 saved per year

The Waterbury Wastewater Treatment Facility is an aerated, facultative, three-cell lagoon system with a holding and treatment capacity of twelve million gallons. In May 2014 the Waterbury facility, in partnership with Efficiency Vermont, cut its energy use by 30% through an aeration system upgrade that reduced operating expenses without any adverse impact to the treatment process.

Impact Data at a Glance

96 Municipally Owned and Operated Facilities Statewide

69 Industrial and Privately Owned Facilities Statewide

58 facilities have completed a project with Efficiency Vermont in the past five years

Types of Projects:

Pumps/Motors/Drives

Operational Modifications

Lighting

HVAC

Structural Upgrades

Regulatory compliance and demonstration of leadership



"When we saw the operating and energy savings the choice was easy. We have done extensive testing and analysis over the past two years and we are finding the treatment has actually improved."

**Peter Krolczyk, Chief Operator,
Waterbury Wastewater Treatment Facility**