

Massachusetts Save Energy Now: State, Regional, and Local Delivery

There are more than 25,000 industrial manufacturers in New England, with more than 10,000 in Massachusetts alone. In order to provide support to the industrial sector in the Northeast, the University of Massachusetts (UMASS) Center for Energy Efficiency and Renewable Energy (CEERE) is conducting energy assessments, organizing trainings, piloting the American National Standards Institute (ANSI) standards for plant certification, and completing combined heat and power (CHP) assessments.

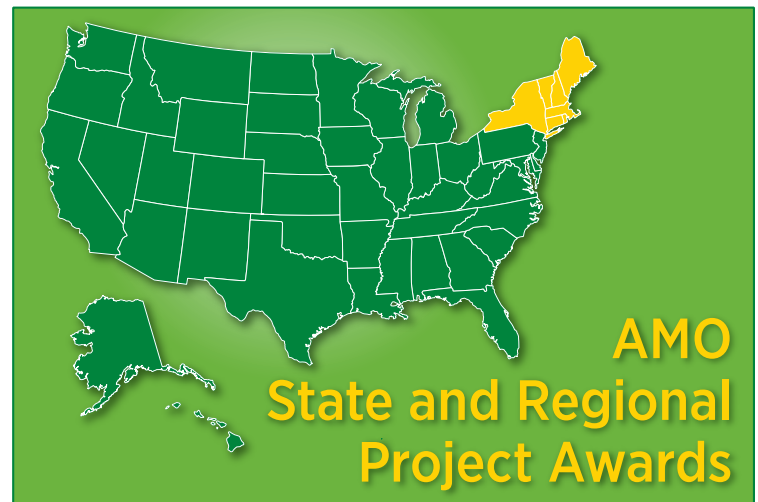
CEERE is home of the UMASS Industrial Assessment Center (IAC), the Northeast Combined Heat and Power (CHP) Regional Application Center, and the Massachusetts Energy Efficiency Partnership. In the past several years, CEERE has become a valuable resource providing training, assessments, and support to industrial manufacturers in the Northeast region.

The Massachusetts *Save Energy Now* team has embraced the Energy Policy Act of 2005 goal of reducing industrial energy intensity by 25% over a 10-year period and is implementing activities to reduce energy intensity in Connecticut, Massachusetts, New Hampshire, and Rhode Island by a minimum of 7.5% during the project term.

Progress and Milestones

Activity Description	Goal	Completed to Date (AMO)	Completed to Date (ARRA)
Assessments	30	14	3
Identified Energy Savings (Trillion Btu)	-	0.286	0.146
Implemented Energy Savings (Trillion Btu)	1.05	0.00	0.004
Trainings	18	21	3
Individuals Trained	-	770	46
Pilots / Demonstrations	-	-	-
Plants Impacted	-	119	-

(As of June 2011)



Project Description

Funding Amount: \$900,000

Funding Source: U.S. Department of Energy, Advanced Manufacturing Office

Program Period: 5/4/2010 – 12/31/2011

Funding Amount: \$500,000

Funding Source: American Recovery and Reinvestment Act

Program Period: 9/30/2009 – 9/30/2011



Project Success Highlights

- Close cooperation with state agencies (Massachusetts Department of Energy Resources, the Office of Technical Assistance at the Center for Energy Efficiency and Renewable Energy at UMASS, Efficiency Vermont, CONNSTEP, Maine Office of Energy and Independence Security, and the New Hampshire Department of Resources and Economic Development).
- Support for trainings from electric utilities, such as NSTAR, National Grid USA and Western Massachusetts Electric.
- Conducted 20 training events, exceeding the project goal of 18 training events.
- Conducted 23 assessments with more than \$6.7 million in potential energy savings identified.
- Identified as much as 136,492 million Btu per year in potential energy savings through completed energy assessments.

Primary Investigators

Massachusetts Department of Energy Resources, Boston, MA

University of Massachusetts at Amherst

Center for Energy Efficiency and Renewable Energy, Amherst, MA

The Massachusetts *Save Energy Now* team had a goal of conducting 18 training events through local training centers by December 2011. The team has exceeded this goal, having completed 20 training events. Two Qualified Specialist training sessions were held with 20 participants each. Nine training events were conducted to cover BestPractices tools, such as steam, pumps, compressed air, motors, and chiller plant optimization. There were 282 total participants at the BestPractices training sessions. Additionally, nine training events were held regarding commercial building energy performance, Labs21, data centers, energy efficient lighting, refrigeration, and CHP. The 20 training events included a total of 745 participants, demonstrating the reach of the program.

The team has also conducted 23 energy assessments, which have identified more than 40 million kWh in recommended electricity savings and more than 135,000 million Btu per year in fuel savings, with a combined total of \$6,700,000 in potential energy savings. The team has five assessments in progress or scheduled.

For Additional Information:

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Benefits

- Decrease industrial energy intensity by a minimum of 7.5% during the project period in Connecticut, Massachusetts, New Hampshire, and Rhode Island.
- Provide training to New England manufacturers regarding skills to reduce energy intensity, reduce waste, and improve overall plant system performance.
- Provide millions of dollars worth of energy cost savings for industrial manufacturers in the Northeast.

Applications in Our Nation's Industry

This project will establish a partnership among academia and state energy offices to build off of existing work to help reduce the energy intensity of industrial manufacturers in Connecticut, Massachusetts, New Hampshire, and Rhode Island. Industrial energy intensity will be reduced by a minimum of 7.5% during the project period.

Project Partners

Connecticut State Technology Extension Program, Rocky Hill, CT
National Grid, Westborough, MA
New Hampshire Division of Economic Development, Concord, NH
NSTAR Electric and Gas, Boston, MA
Western Massachusetts Electric, West Springfield, MA

A Strong Energy Portfolio for a Strong America

Energy efficiency and clean, renewable energy will mean a stronger economy, a cleaner environment, and greater energy independence for America. Working with a wide array of state, community, industry, and university partners, the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy invests in a diverse portfolio of energy technologies.