



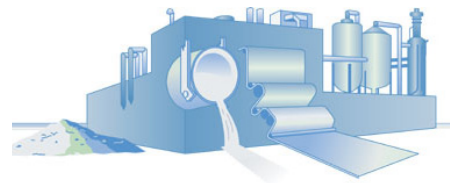
INDUSTRIAL TECHNOLOGIES PROGRAM

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

The University of Massachusetts, Center for Energy Efficiency and Renewable Energy (CEERE) has been a valuable resource for industrial manufacturers in the Northeast. CEERE is home of the UMASS Industrial Assessment Center, the Northeast Combined Heat and Power (CHP) Regional Application Center, and the Massachusetts Energy Efficiency Partnership. Over the years, CEERE has been a valuable resource to the Northeast region providing training, assessments, and support to industrial manufacturers in the Northeast.

There are more than 25,000 industrial manufacturers in New England, with more than 10,000 in Massachusetts

alone. To continue to provide its support to the industrial sector of the Northeast and reach more industrial customers, the Massachusetts team plans to implement a multifaceted approach that includes conducting energy assessments, organizing trainings, piloting the National Standards Institute (ANSI) standards for plant certification, and completing CHP assessments as necessary. Through this effort, the team will support the deployment of energy-efficient technologies, increase productivity and competitiveness, and reduce waste and dependence on fossil fuels for the industrial sector



Benefits

- Decrease in industrial energy intensity by a minimum of 7.5 percent during the project period in Connecticut, Massachusetts, New Hampshire, and Rhode Island
- Training to provide New England manufacturers with skills to reduce energy intensity, reduce waste, and improve overall plant system performance
- Millions in 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 percent during the project period.



Project Description

The Massachusetts team has embraced the *Energy Policy Act of 2005's* (EPAct) goal of reducing industrial energy intensity by 25 percent over a 10-year period (*25 in 10*) and plans to reduce energy intensity in Connecticut, Massachusetts, and New Hampshire, and Rhode Island by a minimum of 7.5 percent during the project term. The team will implement the following strategies:

- **Training:** The Massachusetts team will host two Qualified Specialist training sessions to train and certify industrial managers on ways to identify energy efficiency improvements in their plants and on how to operate DOE's BestPractices software tools. The team will also host 10 end-user workshops. These workshops will focus on DOE's tools and how to properly use them.
- **Energy Assessments:** The team will conduct 20 energy assessments throughout the region. Participating plants will receive an assessment that will utilize the BestPractices suite of tools to identify areas in which to lower energy intensity and potential energy savings if suggested improvements are implemented. Follow-up will be conducted in 6-, 12-, and 18-month intervals. If appropriate, the Massachusetts team will also conduct a feasibility analysis to see if a plant would be a good candidate for CHP.
- **Project Implementation:**
The team will identify lost

implementation opportunities and seek out which barriers prevented implementation. The team will work with the facility and utility partners to devise strategies to overcome these barriers and facilitate implementation. In addition the team will make referrals of energy service providers, utility partners, and other state agencies that can provide financial and technical resources to help in the implementation process.

- **ANSI Standard:** The team will work with at least one manufacturer from the region to help pilot this new ANSI standard. The team will host a workshop that will update participants on the standards for compressed air, process heating, and steam systems, as well as pumps.

Progress and Milestones

The project's planned tasks include:

- Hosting two Qualified Specialist Workshops
- Hosting 10 BestPractices End-user Workshops
- Hosting one ANSI Energy Efficiency Standards Workshop
- Conducting 20 industrial energy assessments throughout the region
- Providing testing for the ANSI Energy Management Standard.

Primary Investigator

Massachusetts Department of Energy Resources, Boston, MA
University of Massachusetts at Amherst Center for Energy Efficiency and Renewable Energy, Amherst, MA

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.

For Additional Information

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