



INDUSTRIAL TECHNOLOGIES PROGRAM

Save Energy Now! Pennsylvania

Pennsylvania’s industrial sector accounts for the highest energy consumption in the state—approximately 1.3 billion Btu in 2007—with energy-intensive industries including aluminum, chemical manufacturing, forest products, glass making, petroleum refining, and steel. The Pennsylvania Department of Environmental Protection’s Office of Energy and Technology Deployment, as well as its project partners, will establish the *Save Energy Now!* Pennsylvania program to inform industrial facilities about the U.S. Department of Energy’s (DOE’s) Industrial Technologies Program’s (ITP’s) *Save Energy Now* industrial energy efficiency resources and adopting ITP’s goal by reducing industrial energy intensity in the state 2.5 percent each year of the three-year project period, or 7.5 percent overall.

Project Description

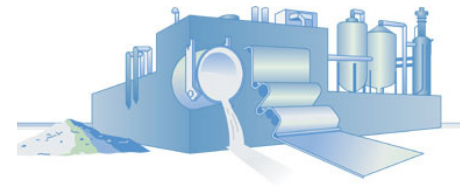
The project will provide outreach and marketing services, energy assessments, implementation assistance, an ANSI pilot program for plant certification, training, and commercialization of emerging technologies to achieve a 7.5-percent

To meet this objective, the project will provide industrial companies with energy assessments, implementation assistance, training, outreach and marketing services, and commercialization of emerging technologies. Further, an American National Standards Institute (ANSI) pilot program for plant certification will be conducted. ANSI is a national standard for energy management that uses certification designations to encourage industrial energy-intensity reduction.

The project aims to establish partnerships among DOE, state government, universities, end users, and nonprofit organizations to reduce industrial energy intensity in Pennsylvania. In addition, this project will enhance existing energy efficiency programs in the state and expand the reach of efficiency efforts.

overall reduction in industrial energy intensity in Pennsylvania. The project will

- Offer promotional communications including personal contact, direct mail, media advertising, and online material



Benefits

- Projected savings of 300 billion Btu each year of the three-year project period
- Anticipated direct emissions reduction of approximately 12.4 million metric tons each year of the three-year project period, with an additional 10.7 million metric tons of indirect emission savings annually
- Estimated cost savings of \$2.8 million each year of the three-year project period
- Increased energy efficiency educational opportunities through training sessions and outreach services.

Applications in Our Nation’s Industry

The project aims to establish partnerships between DOE, state government, universities, end users, utilities, and nonprofit organizations to reduce industrial energy intensity. In addition, this project will provide industrial companies with energy assessments, implementation assistance, training, outreach and marketing services, an ANSI pilot program for plant certification, and commercialization of emerging technologies.



- Provide preliminary surveys, two types of detailed site assessments, and financial assistance for assessments
 - Conduct pre-assessment surveys tailoring the project to the needs of the client and gathering information related to facility size, number of employees, and energy utilization
 - Conduct site visits and walk-through surveys to evaluate the manufacturing processes, equipment, and facility and generate a report assessing the opportunities for energy reduction
 - Offer Targeted Energy Efficiency Site Assessments focusing on specific high-impact areas and generate a report detailing the benefits, methods, and solutions of energy efficiency opportunities
 - Offer Comprehensive Energy Efficiency Site Assessments using laboratory analysis and process evaluation to identify innovative energy efficiency approaches and methodologies; generate a report detailing the benefits, methods, and solutions of energy efficiency opportunities
 - Provide financial assistance for assessment costs of up to 50 percent—or a maximum of \$7,500—for qualified manufacturers.
- Offer project implementation services following site assessments
 - Offer technical and financial assistance with project implementation and adoption of assessment recommendations
 - Perform tracking of energy savings and other measurements to determine the benefits resulting from implementation of energy efficiency recommendations
 - Provide follow-up to encourage a high rate of successful implementation and allow client feedback
- Assist with empowering employees to encourage their involvement with energy efficiency evaluation and management.
- Conduct an ANSI plant certification pilot program to promote and encourage adoption of energy efficiency methods
- Offer energy efficiency training opportunities
 - Provide educational training opportunities through project partners, such as the Penn State University Continuing Education division
- Offer commercialization of emerging technologies
 - Provide financial support and recognition incentives to encourage deployment of energy-efficient technologies and products.

Progress and Milestones

The project's planned tasks include

- Conducting follow-up at 6, 12, and 18 months after each site assessment
- Performing evaluations of the training programs at the end of each session—and three months after—to gauge the impact of training on energy reduction
- Performing primary tasks within the first year of the project, such as site assessments, implementation assistance, training, marketing and outreach services, a pilot program for plant certification, and commercialization of emerging technologies.

Primary Investigator

Pennsylvania Department of Environmental Protection, Office of Energy and Technology Deployment, Harrisburg, PA

Project Partners

Ben Franklin Technology Partners/CNP, University Park, PA

Electrotechnology Applications Center at Northampton Community College, Bethlehem, PA

IMC Business Strategies & Solutions, Williamsport, PA

Penn State University, Statewide Continuing Education, University Park, PA

Pennsylvania Manufacturing Extension Partnerships Centers, Bethlehem, PA

Pennsylvania Technical Assistance Program at Penn State University, University Park, PA

For Additional Information

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