Ohio Center for Industrial Energy Efficiency

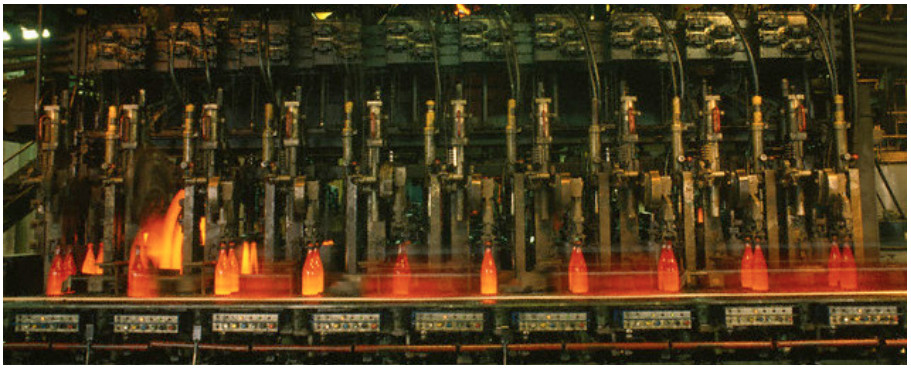
Ohio is home to energy-intensive industrial manufacturing sectors such as steel, metal casting, glass, and forging. The state represents 6 percent of the nation's manufacturing output, with industrial energy usage ranking fourth in the nation at approximately 1,375.0 trillion Btu. Energy Industries of Ohio and the Ohio Energy Office, as well as their project partners, will establish the Ohio Center for Industrial Energy Efficiency (the Center) 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. The meet this objective, the project will provide industrial companies with energy assessments; implementation assistance; energy management training; outreach and marketing services; and technology development, demonstration, and commercialization.

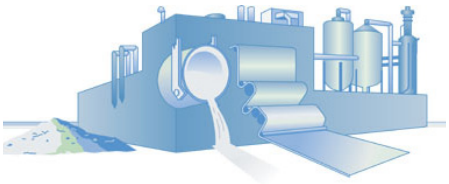
The project aims to establish partnerships among DOE, state and local government, universities, end users, and utilities to reduce industrial energy intensity. The Center seeks to integrate the project into Ohio's state industrial efficiency program to enable continued operation after the three-year federal funding period.

Project Description

The Center will provide energy assessments, implementation assistance, energy management training, and outreach and marketing services for industrial stakeholders. In addition, the project will provide technology development, demonstration, and commercialization assistance to facilitate the implementation of energy-efficient technologies. The Center will

- Provide onsite energy assessments, incorporating various approaches





Benefits

- Projected energy savings of 5.4 trillion Btu each year of the three-year project period
- Anticipated emissions reduction of approximately 300,000 tons of CO_2 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

This project will establish partnerships among DOE, state and local governments, universities, end users, and utilities to reduce industrial energy intensity in Ohio and provide industrial companies with energy assessments; implementation assistance; energy management training; outreach and marketing services; and technology development, demonstration, and commercialization.

  - Six Energy Savings Assessment assessments conducted each year of the three-year project period
  - Twelve university-based Industrial Assessment Center assessments conducted each year of the three-year project period
  - At least 30 EnVinta assessments conducted each year of the three-year project period.
- Offer project implementation services following site assessments
  - Offer technical and financial assistance with project implementation and adoption of assessment recommendations
  - Provide follow-up to encourage a high rate of successful implementation and allow client feedback.
- Provide marketing and outreach services
  - Develop tools and other resources for communicating available technical and financial assistance and case studies of successful projects
  - Develop reporting forms, protocols, and procedures to capture implementation information and document energy savings
  - Establish a Project Advisory Committee
  - Create a recognition program to award project achievement levels.
- Offer BestPractices training opportunities in industrial energy efficiency management
  - Initial training sessions will focus on process heating, steam systems, and compressed air.
- Conduct technology development, demonstrations, and commercialization
  - Support research, development, and demonstrations of more efficient thermal manufacturing processes
  - Develop and commercialize products that utilize or provide energy-efficient technologies and practices.

Progress and Milestones

The project's planned tasks include

- Conducting site assessments each month of the three-year project period, totaling at least 48 assessments
- Completing all assessment follow-up according to the schedule developed
- Offering four training opportunities each year of the three-year project period
- Hosting a recognition event annually to recognize project achievements
- Holding regularly scheduled Project Advisory Committee meetings
- Conducting at least one technology demonstration event each year of the three-year project period
- Integrating the project into Ohio's state industrial efficiency program to enable continued operation after the three-year federal funding period.

Primary Investigator

Energy Industries of Ohio, Independence, OH

Ohio Energy Office, Columbus, OH

Project Partners

Air Power USA, Pickerington, OH

American Electric Power Co., Columbus, OH

Case Western Reserve University, Center for Melting Efficiency and Thermal Technology, Cleveland, OH

Duke Energy, Cincinnati, OH

Energy Information Systems, Dayton, OH

First Energy, Akron, OH

JCC Energy-Solutions, LLC, Akron, OH

University of Dayton, Industrial Assessment Center, Columbus, OH

For Additional Information

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