



INDUSTRIAL TECHNOLOGIES PROGRAM

Save Energy Now – Indiana

In 2003, the Energy Information Administration of the U.S. Department of Energy (DOE) reported that manufacturers in the State of Indiana consumed 1,341 trillion Btu, making it one of the most energy-intensive states. Furthermore, the State Utility Forecasting Group is projecting a 2.2 percent increase in electricity and natural gas consumption in Indiana through 2022. This will entail energy service providers adding 0.3 trillion Btu of additional load to meet the projected increase in demand. Indiana is therefore seeking alternative options to reduce energy consumption in the state.

The Indiana team—which consists of academia, utilities, industrial manufacturers, and the state energy

office—has developed an innovative approach to reducing energy consumption and intensity in the state. Because the industrial sector consumes the greatest amount of energy in Indiana, it therefore has the greatest opportunity for improvement. The team has developed a multifaceted approach to lower industrial energy consumption by 36 trillion Btu at the end of the project period (7.5 percent overall reduction in industrial energy intensity); the plan includes performing public outreach; organizing trainings; hosting workshops; conducting energy assessments, technology demonstrations, and commercialization; and piloting the American National Standards Institute (ANSI) standard for plant certification.



Benefits

- Decrease in industrial energy intensity in Indiana by a minimum of 7.5 percent during the project period
- Reduction of the state's carbon emissions by 496,000 tons during the project period
- Development of a center of excellence for Indiana manufacturers to help identify and implement energy efficiency measures

Applications in Our Nation's Industry

This project will establish a partnership among academia, utilities, industrial manufacturers, and the state energy office to build off of existing work to help reduce the energy intensity of industrial manufacturers in Indiana. Industrial energy intensity will be reduced by a minimum of 7.5 percent during the project period.

Project Description

The Indiana team will implement the following strategies:

- **Outreach:** The team will put forth a comprehensive outreach plan that consists of Web site creation and maintenance, newsletter distribution, articles about the program and energy assessments, and an awards program for Indiana plants that achieve not able energy savings after participating in the program-sponsored energy assessment.
- **Training and Workshops:** The team plans to host training sessions to provide participants with the information and skills needed to successfully complete an energy assessment. Seventy-five (75) workshops will be hosted by the Indiana team, including end-user workshops, Qualified Specialist training, and trainer education sessions, among other in-house workshops during the project term. The team predicts that 2,000 people will participate in the training sessions.
- **Energy Assessments:** The team will conduct 54 cost-shared energy assessments in Indiana throughout the project period. Plants must spend more than \$500,000 on energy bills annually in order to qualify for an assessment. These energy assessments will utilize DOE's BestPractices suite of tools as the energy auditor identifies processes in the plant that are not effectively consuming energy. Participating plants are required to implement energy efficiency improvements and validate the energy savings.

- **Technology Demonstrations:** The project team will hold at least two technology demonstrations of DOE Industrial Technologies Program- and Purdue-developed energy efficiency technologies. They will also help move the selected technologies to market.
- **ANSI Standard:** The team will work with at least one Indiana manufacturer from the region to help pilot this new ANSI standard. The pilot plant project and results will be the foundation for the standard.

Progress and Milestones

The project's planned tasks include:

- Conducting 54 energy assessments of varying size
- Hosting 75 workshops and trainings
- Developing newsletters to keep industry informed of the project and its results

Primary Investigators

Purdue University Technical Assistance Program, West Lafayette, IN
Indiana Office of Energy and Defense Development, Indianapolis, IN

Project Partners

Aleris International, Inc., Rockwood, TN
Drug Plastics and Gas Company, Inc., Oxford, IN
Energy USA, Hammond, IN
High Performance Alloys, Inc., Windfall, IN
HOOSIERENERGY, Bloomington, IN
Indiana Industrial Energy Consumers, Inc., Indianapolis, IN
Indiana Manufacturing Extension Partnership, West Lafayette, IN
Indiana Michigan Power, Fort Wayne, IN
Indiana Municipal Power Agency, Carmel, IN
Indiana University-Purdue University, Indianapolis, IN
Indianapolis Power and Light Company, Indianapolis, IN
Midwest Combined Heat and Power Application Center, Chicago, IL
National Association of Power Engineers—Indianapolis Chapter # 4, Indianapolis, IN
Peerless Pump Company, Indianapolis, IN
Purdue University Discovery Park Energy Center, West Lafayette, IN
Purdue University Technology Centers, West Lafayette, IN
Tech Group Indiana, Frankfort, IN
University of Dayton, Industrial Assessment Center, Dayton, OH
University of Illinois at Chicago, Energy Resource Center, Chicago, IL
Wabash Valley Power, Indianapolis, IN

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