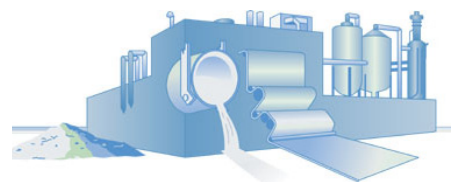


INDUSTRIAL TECHNOLOGIES PROGRAM

Midwest States *Save Energy Now* Partnership Program

The industrial sector accounts for approximately one-third of all energy consumed in the U.S. each year. The Industrial Technologies Program (ITP) of the U.S. Department of Energy (DOE) has developed multiple resources and a BestPractices suite of tools to help industrial manufacturers reduce their energy intensity. ITP has adopted the *Energy Policy Act of 2005* (EPAct) objective of reducing industrial energy intensity 2.5 percent annually over the next 10 years. To help achieve this goal, ITP relies on its partners to help disseminate the resources and information to industrial manufacturers in their areas.

The Illinois Department of Commerce and Economic Opportunity's State Energy Office, in cooperation with the University of Illinois at Chicago's Energy Resources Center, is leading a team of academia, utilities, industrial manufacturers, and state energy offices that will help reduce industrial energy intensity in eight Midwestern States. The Midwest team's approach consists of implementing a comprehensive outreach strategy, conducting energy assessments, promoting energy-efficient technologies, identifying resources to help fund energy efficiency projects, and helping to test the elements of the American National Standards Institute (ANSI) - accredited Superior Energy Performance (SEP) certification program that is using the forthcoming ISO 50001 energy management standard.



Benefits

- Decrease in industrial energy intensity in the Midwest by 10.4 trillion Btu over the duration of the project
- Reduction in regional carbon emissions by 1.3 million tons
- Training for Midwest manufacturers that will provide them with skills to reduce energy intensity, reduce waste, and improve overall plant system performance.

Applications in Our Nation's Industry

This Midwest project will enhance a partnership among academia, utilities, industrial manufacturers, and state energy offices to build off of existing work to help reduce the energy intensity of industrial manufacturers in the Midwest Region. The Midwest team's work will reduce regional industrial energy intensity by 7.5 percent during the project period.

Project Description

The Midwest team will implement the following strategies to help reduce industrial energy intensity and related carbon emissions in the region:

- **Outreach:** The team will utilize existing partnerships to help increase outreach of energy efficiency information and resources to new industrial manufacturers in Illinois, Indiana, Iowa, Minnesota, and Ohio. The Midwest team will establish a Program Advisory group to help in this endeavor. The participants will be known as Energy Savings Champions and will serve as transfer agents identifying potential projects, promoting the benefits of the partnership, and encouraging project implementation. In addition, a Web site will be developed that will contain information on the program.
- **Energy Assessments:** The team will conduct 220 energy assessments in plants throughout the Midwest region similar to Industrial Assessment Center and Energy Savings Assessments. These energy assessments will utilize DOE's BestPractices suite of tools to identify processes in a plant that are not effectively consuming energy. Participating plants are required to implement energy efficiency improvements and validate the energy savings. The team expects to save 10.4 trillion Btu during the project term.
- **Training and Technical Assistance:** The team will conduct workshops and Webinars to make their partners aware of ITP's no-cost tools and resources. Technical assistance in the form of energy-efficient

technologies, evaluations, permitting issues, and energy/ environmental calculations will also be provided to Energy Savings champions and participating plants. The Midwest team will also search for resources to help plants/Energy Savings champions implement energy-saving technologies in their facilities.

- **Superior Energy Performance:** The team is supporting six energy management demonstrations to pilot the SEP plant certification.

Progress and Milestones

The project's planned tasks include:

- Conducting 220 energy assessments throughout the region
- Developing a recognition program to highlight plants (and partners if applicable) that have achieved notable reductions in energy intensity
- Establishing and convening a Program Advisory Group
- Holding at least 12 workshops or Webinars throughout the project period

Primary Investigator

State Energy Office of the Illinois Department of Commerce and Economic Opportunity, and the University of Illinois at Chicago's Energy Resources Center, Chicago, IL

Project Partners

Ameren Illinois Utilities, St. Louis, MO
Ameresco, Oak Brook, IL
Atlas Tool and Die Works, Inc., Lyons, IL
Bradley University, Peoria, IL
Chicago Manufacturing Center, Chicago, IL
City of Chicago Department of Environment, Chicago, IL
Commonwealth Edison, Chicago, IL
Grumman/Butkus Associates, Evanston, IL
Illinois Manufacturer's Association, Oak Brook, IL
Indiana Office of Energy and Defense Development, Indianapolis, IN
Industrial Council of Nearwest Chicago, Chicago, IL
Iowa Office of Energy Independence, Des Moines, IA
Johnson Controls, Milwaukee, WI
Midwest Energy Efficiency Alliance, Chicago, IL
Minnesota Office of Energy Security, St. Paul, MN
Northern Indiana Public Service Company, Merrillville, IN
Ohio Department of Development, Columbus, OH
Primera, Chicago, IL
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