

Expanding the WisconSEN Program

The industrial sector represents the highest level of energy consumption amongst Wisconsin's economic sectors—approximately 623.5 trillion Btu in 2007. Wisconsin's industrial sector includes energy-intensive industries such as food processing, chemical manufacturing, plastics, and forest products. The Wisconsin Office of Energy Independence, as well as its project partners, will expand the WisconSEN Program that was established in October 2007 as part of a memorandum of understanding with the U.S. Department of Energy (DOE) Advanced Manufacturing Office (AMO). The program will continue to inform industrial facilities about AMO's *Save Energy Now* industrial energy efficiency resources and the goal of reducing industrial energy intensity in the state by 2.5% annually. To meet this objective, the project will provide industrial companies with energy assessments, implementation assistance, training, outreach and marketing services, and demonstration and commercialization of new and emerging technologies. Further, an American National Standards Institute (ANSI) ISO 50001 standard 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.

Through a partnership with existing local programs that can provide project implementation support, participating customers will complete energy savings projects to reduce industrial energy intensity in Wisconsin. In addition, this project will enhance existing industrial energy efficiency programs in the state and expand the reach of the program.

Progress and Milestones

Activity Description	Goal	Completed to Date
Assessments	22	48
Identified Energy Savings (Trillion Btu)	N/A	0.457
Implemented Energy Savings (Trillion Btu)	N/A	0.036
Trainings	5	6
Individuals Trained	N/A	122
Pilots / Demonstrations	3	3
Plants Impacted	N/A	84

(As of March 2011)



Project Description

Funding Amount: \$895,000

Funding Source: American Recovery and Reinvestment Act

Program Period: 9/30/2009 to 3/31/2013



Project Success Highlights

- High-level expertise leveraged from DOE trained experts
- Utilized existing resources and extended the network for Wisconsin Focus on Energy and WPPI Energy
- Three International Organization for Standardization/Superior Energy Performance energy management demonstration project participants deploying the new energy management standard.
- Completed 32 ESAs and 16 IAC assessments and conducted post assessment follow-up.
- Completed six AMO System Assessment and Qualified Specialist trainings throughout Wisconsin.

Primary Investigator

Wisconsin State Energy Office, Madison, WI

Project Partners

Focus on Energy, Madison, WI

Science Applications International Corporation, Oak Ridge, TN

Wisconsin Industrial Energy Group, Madison, WI

WPPI Energy, Sun Prairie, WI

Benefits

- Projected savings of 16.0 trillion Btu each year of the three-year project period, for a total of 48 trillion Btu.
- Increased technical and financial energy efficiency assistance available to Wisconsin's 12,000 industrial companies.
- Increased energy efficiency educational opportunities through training sessions and outreach services.

To date, the WisconSEN Program has completed 32 of its planned 22 Energy Savings Assessments (ESAs). Wisconsin Focus on Energy Advisors are conducting follow up activities immediately with ESA participants, and the program has received 31 post-assessment reports completed by the Energy Experts. The reports are used to coordinate project funding for implementation. The program has also completed 16 IAC assessments with WPPI Energy follow-up—one more assessment than planned. The IAC assessments identify short payback opportunities within small- to medium-sized industrial customers. To advance the implementation goals, IAC assessment reports have been shared with local utility representatives. Local utility representatives have ongoing relationships with the industrial customers' staff and are well suited to provide follow up, help the customers prioritize projects, and recommend available energy efficiency funding sources for the identified projects.

A second effort of this program is to deploy the Midwest Superior Energy Performance Demonstration at three facilities in Wisconsin. The demonstrations support facility managers in learning more about implementing the new protocol. Didion Ethanol, Cook Composites and Polymers, and Neenah Foundry are participating in the Midwest Demonstration. Wisconsin Focus on Energy is supporting these companies through mentoring and technical and project financial support.

A third effort will bring five new System Assessment and Qualified Specialist trainings to Wisconsin. Training participants will have access to onsite technical support, such as energy savings assessments and Wisconsin Focus on Energy implementation grants. Five AMO trainings were planned as part of this effort; however, the WisconSEN Program has conducted six trainings on process heating, steam systems, AirMaster+ Qualified Specialist, Motor System Management, Fan System Assessment, and Pump System Assessment.

Additional Information Contact:

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Applications in Our Nation's Industry

The project will enhance partnerships between DOE, state government, and nonprofit organizations to reduce industrial energy intensity in Wisconsin. In addition, this project will continue to provide industrial companies with energy assessments (ESAs), implementation assistance, training, outreach and marketing services, an ISO/SEP demonstration project for plant energy management certification, and demonstration and commercialization of new and emerging technologies.

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.