

Industrial Technologies Program: Energy Saving Tools & Resources for Manufacturers



Andre de Fontaine
SP & TAMA 3rd Quarter Membership Meeting
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Industrial Technologies Program
Energy Efficiency & Renewable Energy
U.S. Department of Energy

There are significant cost-effective energy efficiency opportunities in manufacturing.

Sector	Primary energy savings	Payback time	Investment required* (2009 \$)	Savings achieved (2009 \$)	Scope of potential opportunity
Manufacturing and Other Industrial	5,030 Tbtu/yr	2.4 years	\$113 billion	\$442 billion	330,000 establishments

Sources: *Energy Efficiency in the U.S. Economy*, McKinsey & Company, July 2009.

Notes: Savings achieved are net present value (NPV) positive for the 10-year period of 2010-2020.

* Not incremental; does not include maintenance costs

** Includes existing buildings and excludes new construction

ITP's Technology Deployment program is designed to establish and facilitate a robust, self-sustaining energy management services industry in the United States.

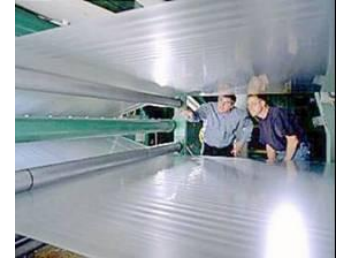
- *Support* manufacturers' continuous energy management improvement with tools, training and technical assistance
- *Recognize* manufacturers' significant, verified energy savings and achievements in energy efficiency

Foundations for continuous energy improvement

- ISO 50001 Energy Management Standard



Leverage state, utility, and local resources to help manufacturers reduce energy use and carbon emissions today—and **create a corporate culture** that fosters continuous improvement.



Energy Management

- Superior Energy Performance (SEP)
- ISO 50001
- Assessment standards, protocols and metrics



Tools

- Energy and Carbon Baselineing
- Software Tools
- Self-paced energy management modules

Training

- Industrial Assessment Centers
- Qualified Specialists

Industrial Technologies Program

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Technical Assistance

The Industrial Technologies Program (ITP) helps manufacturers chart a path to continuously improve energy efficiency and adopt state-of-the-art technology and energy management practices. ITP offers:

- Proven tools, training, assessments and other resources to help companies identify the most cost-effective options for saving energy—regardless of their level of energy management expertise
- Lessons learned from other companies in our case studies, databases, and success stories
- Recognition for setting ambitious and measurable energy goals and for embracing a corporate culture that values energy management

State and local stakeholders, utilities, universities, trade associations, non-profits, and others are working individually and collectively to:

- Develop a robust private-sector market with the expertise and technical capacity to help companies save energy
- Train the next-generation workforce to meet the local needs of industry
- Remove market barriers to the use of more energy-efficient technology

Learn more about technical assistance resources and activities:

- [Training and Webcasts](#)
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- [Plant Assessments](#)
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- [Industrial Assessment Centers](#)
- [Incentives & Resources Database](#)
- [ISO 50001 Energy Management Standard](#)
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NEWS

DOE to Help Train Next Generation of Industrial Energy Efficiency Experts
June 22, 2011

Elevate Energy Management in Your Company with the ISO 50001 Standard
June 21, 2011

Information and Communication Technology Portfolio Brochure Highlights Innovative Projects
March 17, 2011

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EVENTS

All-States Summit (Invite-Only)
April 12-13, 2011

Tuesday Webcast for Industry: A Discussion of New ITP Tools and Resources for Industry
July 12, 2011

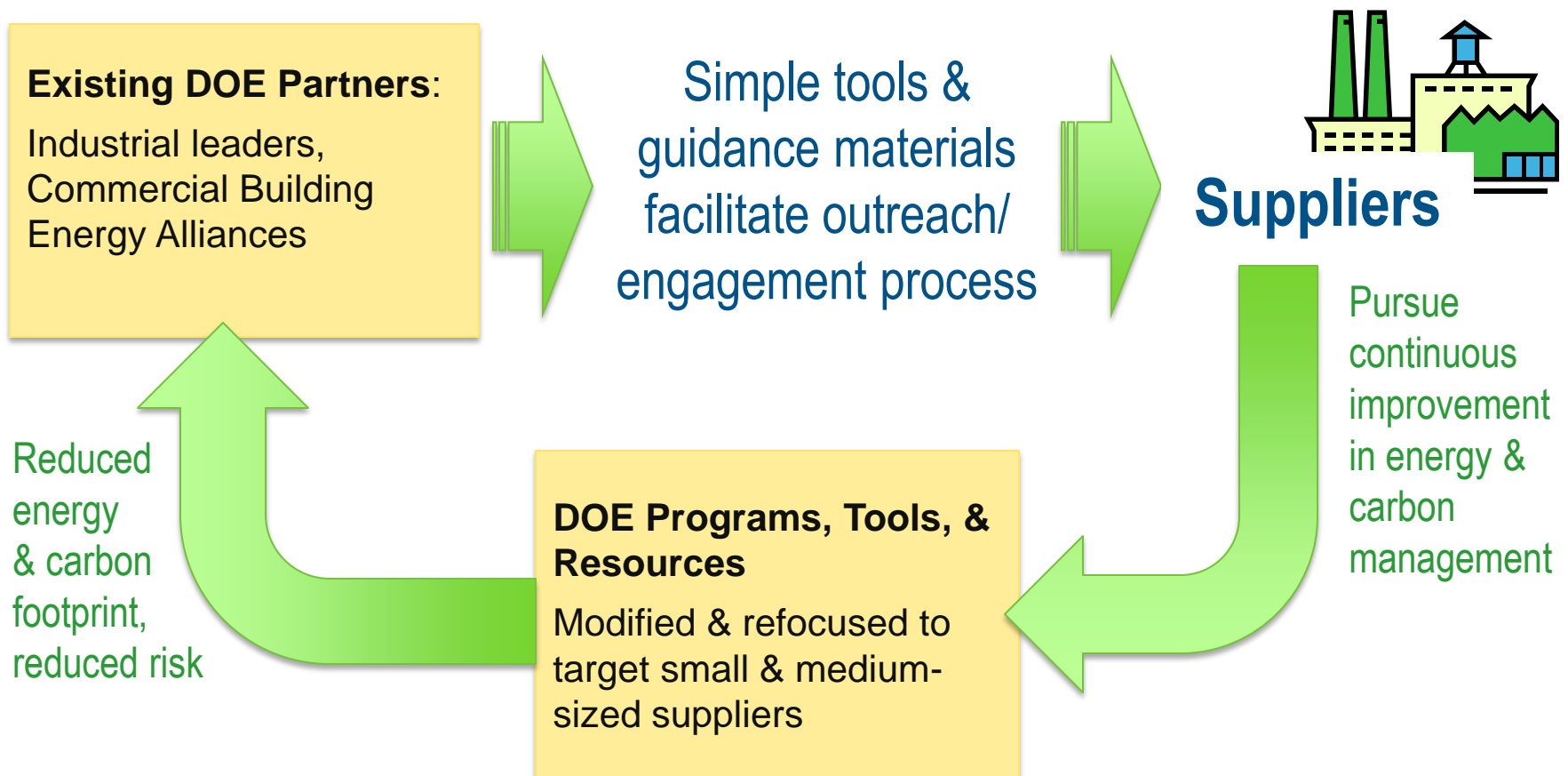
Tuesday Webcast for Industry: Establishing and Maintaining a Strategic Partnership with the Chief Financial Officer
August 9, 2011

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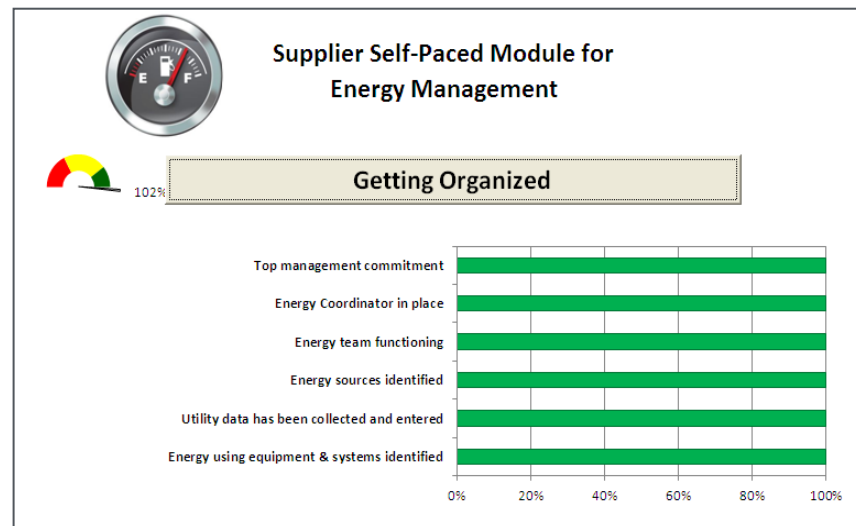
FEATURES

www.eere.energy.gov/industry/tech_assist/index.html

Develop a turnkey solution that helps businesses transfer energy management skills, goals, and practices to suppliers

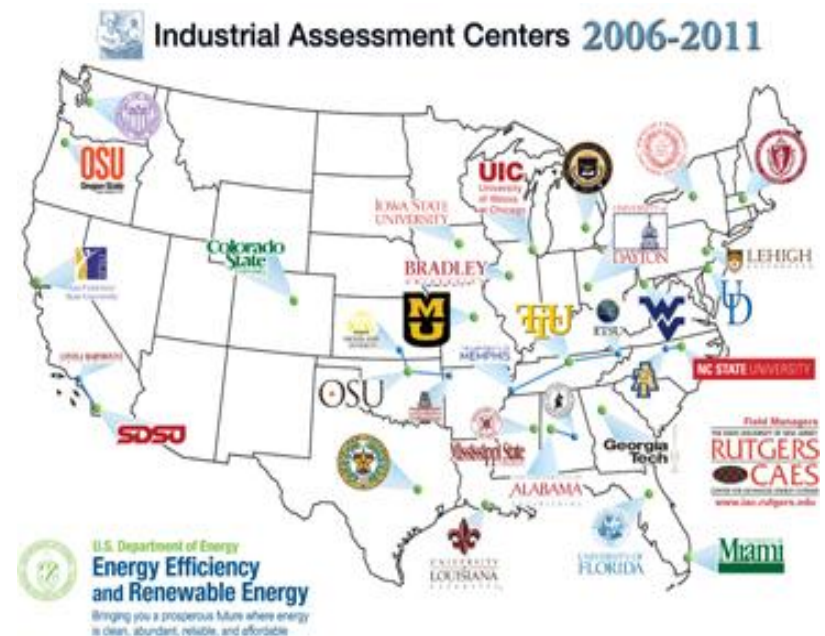


- Simple tool designed for companies with little to no energy management experience to develop an energy management plan and documents
- Dashboard feature allows users to view their progress in each section



DOE's 26 University-based Industrial Assessment Centers (IACs)

- Provides assessments to small and medium-size plants (energy costs below \$3 million per year)
 - Identifies \$175,000 to \$200,000 in potential annual energy savings per plant, with an average implementation rate of 35 to 45%
- Trains engineering students for careers in industrial energy efficiency
- Helps university professors stay connected to the technical needs in manufacturing
- Maintains database of recommendations to help other facilities identify opportunities.





Thank You!