



INDUSTRIAL TECHNOLOGIES PROGRAM

Save Energy Now – South Carolina

The Industrial Technologies Program (ITP) of the U.S. Department of Energy (DOE) has adopted the *Energy Policy Act of 2005's* (EPAAct) goal of a 2.5 percent annual reduction in industrial energy intensity over a 10-year period (*25 in 10*). To help achieve this goal, ITP has several tools and resources for plants to reduce their energy intensity and related carbon emissions. ITP relies on its state and regional partners to disseminate the information and tools to industrial manufacturing facilities within their geographic borders.

South Carolina is home to a diverse manufacturing base with over 3,500 industries. The manufacturing sector in South Carolina accounts for approximately 40 percent of the energy consumed in the state. The South Carolina Manufacturing

Extension Program (SCMEP) and South Carolina Energy Office (SCEO) have partnered together to help contribute to the *25 in 10* goal by helping the South Carolina industrial sector reduce its energy intensity. To do this, SCEO and SCMEP will deliver Industrial Assessment Center- and Energy Savings Assessment- style assessment to small- and medium-sized manufacturers in South Carolina. In addition, the team will conduct training for industrial stakeholders to provide them with the skills to identify and implement energy efficiency improvements and reduce waste in their facilities. The South Carolina team will also host a symposium that will provide a venue for manufacturers and vendors of energy-efficient technology to network and demonstrate their products and goods.



Benefits

- Decreases South Carolina's industrial energy intensity by a minimum of 7.5 percent during the project period
- Provides training to manufacturers in South Carolina, equipping them with the skills needed to reduce energy intensity, reduce waste, and improve overall performance
- Provides South Carolina with a go-to organization to provide a variety of energy efficiency services to industrial manufacturers in the state.

Applications in Our Nation's Industry

This project provides South Carolina's industrial manufacturers with a go-to resource to help improve their energy efficiency, reduce waste, and improve their operations.



Project Description

The South Carolina team has adopted the *25 in 10* objective, aiming to reduce the state's industrial energy intensity by 2.5 percent annually. It plans to partner with several organizations to implement the following strategies:

- **Outreach:** Utilities are the core of the team's outreach strategy. The team will work with utilities to identify and promote the South Carolina program and its members to industrial customers.
- **Energy Assessments:** The team will conduct energy assessments after establishing criteria for participation. Selected plants will receive an assessment that will utilize the DOE BestPractices suite of tools to identify areas to lower energy intensity and potential energy savings if suggested improvements are implemented. Plants must commit in writing to employing recommended energy efficiency improvements in order to receive an energy assessment. The team will then work with the plants to help install and monitor the energy-efficient equipment.
- **ANSI/MSE 2000:2005 Energy Management Protocol:** The team will work with a minimum of three manufacturers to pilot this new ANSI standard. The purpose of the standard is to establish an energy management system to control and reduce a facility's energy cost and energy-related environmental impact.
- **Training:** BestPractices training sessions will be held to train industry on ways to identify energy efficiency improvements in their plants and how to operate DOE's tool suite. The team

will also host specialized workshop trainings to address relevant issues/topics of interest to South Carolina industrial manufacturers, such as using lean manufacturing to reduce energy use and waste or utilizing ISO 14001 and Environmental Management Systems to Optimize Energy Use.

- **Energy Symposium:** The South Carolina team will host a statewide energy symposium for industry, consultants, utilities, state and federal government, and academia. The symposium will bring these stakeholders together to share ideas for improving industrial energy efficiency in the state.

Progress and Milestones

The project's planned tasks include:

- Implementing an outreach strategy in which the utilities will connect their industrial customers to the team
- Conducting a minimum of 8 energy assessments per year, for a total of 24
- Developing case studies and/or reports from the energy assessments.
- Working with a minimum of three plants to pilot the ANSI/MSE 2000:2005 Energy Management Protocol
- Hosting nine BestPractices trainings, nine specialized training workshops, and one statewide energy symposium.

Primary Investigator

South Carolina Energy Office,
Columbia, SC

Project Partners

Britt Marketing and Communications,
Forest, VA
Central Electric Power Cooperative,
Columbia, SC
Clemson University, Clemson, SC
Duke Energy, Charlotte, NC
Industrial Technology Associates,
Gaston, SC
Palmetto Economic Development
Corporation, Columbia, SC
Palmetto Energy Solutions, Incorporated,
Blythewood, SC
Piedmont Natural Gas Company,
Atlanta, GA
Progress Energy, Raleigh, NC
Santee Cooper, Moncks Cooper, SC
South Carolina Department of
Commerce, Columbia, SC
South Carolina Department of Health
and Environmental Control, Columbia,
SC
South Carolina Economic Developers
Association, Columbia, SC
South Carolina Electric and Gas
Company, North Charleston, SC
South Carolina Manufacturers
Association, Columbia, SC
South Carolina Manufacturing Extension
Partnership, Columbia, SC
South Carolina Technical Colleges,
Columbia, SC
University of South Carolina, Columbia,
SC

For Additional Information

Please contact:
Tom Hudkins
South Carolina Energy Office
1201 Main Street, Suite 430
Columbia, SC 29201
Phone: 803-737-8030
E-mail: THudkins@energy.sc.gov