

Industrial Energy Efficiency

The ORNL Industrial Energy Efficiency Team supports DOE's Best Practices Program, which delivers tools, training, and technical assistance for the DOE Industrial Technologies Program. For the DOE programs and other customers, the team supports energy management decisions and deployment of new technologies to improve the energy performance of industrial plant utility systems such as motor-driven equipment (e.g., pumps and fans), compressed air systems, process heating, and steam systems.

The team's activities include the following:

- Technical support for energy assessments of large industrial plants, including Save Energy Now Assessments (SENAs) and those performed by Industrial Assessment Center (IAC) teams. The Industrial Technologies Program completed 200 SENAs at U.S. industrial plants in 2006, and reported opportunities to reduce annual natural gas use by 52 trillion Btu (worth \$485 million) and annual carbon dioxide emissions by 3.3 million tons. The ORNL team has continued to support the initiative by providing technical reviews of the assessment reports.
- Development and presentation of training programs for plant operators, designers, and other personnel to increase their knowledge of energy efficient practices and strategies
- In-plant technical assistance for training personnel to identify energy efficiency opportunities
- Development and maintenance of tools for making energy efficiency decisions
- Documentation of industrial projects through case studies
- Research in efficiency techniques for motor, steam, and air compressor systems
- Verification and validation of the performance of new technologies in field testing to support deployment
- Development and management of program performance metrics to measure the impact of the program



Two hundred Energy Savings Assessments identified potential annual energy savings of \$485 million

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