



INDUSTRIAL TECHNOLOGIES PROGRAM

Colorado Industrial Challenge and Recognition Program

In November 2007, Colorado Governor Bill Ritter set forth the Colorado Climate Action Plan, which establishes a goal of reducing statewide greenhouse gas emissions by 20 percent by 2020, using 2005 as a baseline. The foundation of the Climate Action Plan is achieving half of the greenhouse gas reductions through energy efficiency. Fifteen percent of the energy efficiency reduction goals are slated to come from a new industrial energy efficiency program.

The Colorado team has laid out an ambitious plan to achieve the Governor's objectives. Led by the Governor's Energy Office (GEO), the team consists of Colorado State

University's Industrial Assessment Center, Southwest Energy Efficiency Project, ETC Group, and the Intermountain Clean Energy Center. Together, these organizations will encourage industrial firms in Colorado to make voluntary commitments to reduce energy intensity, conduct energy assessments, host training sessions, establish an industrial manufacturing roundtable, pilot American National Standards Institute (ANSI) standards for plant certification, and put forth a comprehensive communications, outreach, and recognition plan.

Project Description

The Colorado team plans to reduce industrial energy intensity in the state a minimum of 7.5 percent and meet the Governor's goal of a 20 percent reduction in statewide GHG emissions by 2020. The team will coordinate with utilities, energy efficiency organizations, and industrial trade associations to implement the following strategy:

- **Program Partnership:** The Colorado team will extend outreach to the state's largest industrial energy consumers to encourage them to set voluntary commitments to reduce their energy intensity and related carbon emissions. Companies agreeing to participate in the program will be eligible for additional technical assistance to help



Benefits

- Reduction of industrial energy intensity by 2.5 percent each year of the project period, or 7.5 percent overall
- Reduction of GHG emissions and contribution to the implementation of the Colorado Climate Action Plan
- Assessments and training to identify energy savings opportunities for manufacturers in Colorado

Applications in Our Nation's Industry

This project will further enhance a partnership among the state energy office, academia, industrial firms, and energy efficiency organizations to reduce industrial energy intensity in the state. The Colorado team projects that 7.3 trillion Btu will be saved as a direct result of the project by the end of the performance period.



them meet their energy intensity reduction goals, and recognition for all notable achievements.

- **Energy Assessments:** The Colorado State University Industrial Assessment Center and the ETC Group will conduct energy assessments for plants of all sizes. During an assessment, plant managers will learn what they can do to lower the energy intensity of certain plant processes. Participants will be asked to become a partner in the program by making a plant-wide energy intensity reduction goal, which will likely include implementing some of the assessment recommendations. Follow-up will be conducted in 6-, 12-, and 18-month intervals. Technical assistance will also be available in the form of information on emerging technologies, results measurement and verification, and help making the business case for energy efficiency, among other technical assistance options.
- **Training:** The Colorado team will hold a minimum of six one-day training workshops during the project period on the use of DOE BestPractices tools and processes. In addition, the team will host a minimum of six Webinars for resource- and time-constrained plant managers to learn about new technologies and other ways to reduce energy intensity in their facilities.
- **Industrial Manufacturing Roundtable:** A unique component of the Colorado team's project is the creation of an Industrial Manufacturing Roundtable consisting of plant managers from around the state. The group will convene biannually to discuss what they have done to lower energy intensity in their facilities, share successes and lessons learned, and provide input into the direction of the Colorado team's efforts.
- **ANSI Standard:** The Colorado team will help pilot the ANSI standard for plant certification.
- **Communications, Outreach, and Recognition:** Outreach will be extended to industrial facilities of all sizes to ensure that as many plants as possible receive

DOE resources and tools to help them reduce their energy intensity and carbon emissions. The outreach plan will also connect industrial plants with utilities and other agencies offering incentives and rebates for reduced energy intensity. Finally, the Colorado team will provide public recognition to plants that achieve notable energy consumption reductions in the state, both through a formal awards ceremony and through the local media. During an assessment, plant managers will learn what they can do to lower the energy intensity of certain plant processes. Participants will be asked to sign a voluntary commitment to implement the energy-reducing recommendations. Follow-up will be conducted in 6-, 12-, and 18-month intervals.

Progress and Milestones

The project's planned tasks include

- Identifying top industrial energy users and market opportunities
- Facilitating the development of an industry-focused energy management and BestPractices roundtable
- Helping industrial firms access the portfolio of resources offered by Save Energy Now
- Assisting industrial firms in participating in utility Demand Side Management programs
- Conducting energy assessments and post-assessment follow-up
- Providing technical assistance
- Hosting at least six end-user trainings during the project period, in addition to a minimum of six Webinars on ways in which to reduce energy intensity in industrial manufacturing facilities
- Offering recognition and publicity for participating industrial companies
- Performing program marketing and outreach
- Tracking, measuring, verifying, assessing, and reporting energy and cost savings
- Piloting the ANSI protocols

Primary Investigator

Colorado Governor's Energy Office,
Denver, CO

Project Partners

Colorado State University Industrial
Assessment Center, Fort Collins, CO

ETC Group, Salt Lake City, UT

Intermountain Clean Energy Center,
Boulder, CO

Southwest Energy Efficiency Project,
Boulder, CO

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.

For Additional Information

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