

Colorado Industrial Resource Fact Sheet

Introduction

Colorado's economy is ranked 20th in the nation in terms of 2008 gross domestic product (GDP), generating \$248.6 million annually. Industrial manufacturing is an important sector of Colorado's economy, providing the state with 39,072 jobs and supplying \$15,557.4 million worth of goods. Based on the total value of shipments, the largest manufacturing sectors in the state are food, electronics, beverages, and chemicals. In 2007, Colorado's industrial sector ranked 28th in the nation in terms of energy expended, accounting for 399.0 trillion British thermal units (Btu) or 27 percent of statewide energy consumption. Additionally, the state's industrial natural gas consumption totaled 175.7 trillion Btu, which was 11th in the nation. Moreover, the industrial sector accounted for approximately 13.67 million metric tons of carbon dioxide emissions, according to 2005 data.

Colorado has long been on the leading edge of the movement to increase energy efficiency in industry. The state government created legislation and programs to encourage energy-efficiency and renewable-energy measures. In November 2004, voters approved Amendment 37, making Colorado the first state in the United States to create a renewable portfolio standard by ballot initiative. Furthermore, Colorado passed the *Concerning Energy Efficiency* amendment, which directs the Colorado Public Utilities Commission to require jurisdictional electric utilities and local gas distribution companies to develop and substantially expand energy-efficiency programs. Additionally, it requires investor-owned utilities (IOUs) to provide energy-efficiency programs for their customers. State representatives also passed



legislation to create the *Clean Energy Fund* to help advance energy efficiency and renewable energy throughout the state. In addition to the legislation, Colorado published a *Climate Action Plan*—a strategy that addresses global warming in which the state acknowledges energy efficiency as its most affordable energy resource. Industrial energy efficiency plays a key role in the savings goals of the Climate Action Plan.

State Programs

State Government: The State of Colorado offers energy-efficiency programs through the Colorado Governors Energy Office (GEO). For example, a new Industrial Energy Efficiency Program encourages Colorado's industrial firms to make energy efficiency an integral part of their operations and challenges them to set and meet energy intensity reduction goals. Industrial firms that join the program are provided with benchmarking and goal-setting assistance, on-site assessments, technical assistance, trainings, and public recognition. The Clean Energy Fund is another GEO program that offers businesses incentives for implementing energy-efficiency measures. GEO also offers incentives to Colorado businesses that install small wind generation facilities.

City/Town Government: Climate Wise is a voluntary City of Fort Collins program that recognizes and assists businesses in quantifying and reducing their environmental impact. Climate Wise provides free assessments, recognition, and peer networking opportunities to business partners. The City of Boulder offers energy audits to industrial operations within the city limits, as well as cash rebates on the purchase of solar energy generation.

Utility Resources

Investor-Owned Utilities: Xcel Energy is the largest IOU in the state and offers a bevy of energy-efficiency programs to assist industrial customers. Cash rebates on high-efficiency boilers, HVAC units, compressed air systems, cooling systems, lighting equipment, motors, and natural gas furnaces are among the several rebates offered to Xcel Energy's nonresidential customers. Other programs Xcel Energy offers include data center efficiency studies, energy audits, retrocommissioning programs, a self-direct program, and a portfolio of energy-assessment tools. Other IOUs that provide customers with energy-efficiency programs in Colorado are Black Hills Energy and SourceGas. Programs offered by Black Hills Energy include energy audits, prescriptive rebates, custom rebates, commissioning and retrocommissioning, trainings, and incentives on installing solar generation equipment. SourceGas offers rebates to customers that purchase high-efficiency natural gas equipment.

INDUSTRIAL TECHNOLOGIES PROGRAM

Public Power Utilities: Within the State of Colorado, there are multiple public power utilities (PPUs) that provide industrial customers with energy-saving programs. The following is a breakdown of the programs offered by municipal utilities according to type.

NAME OF IOU	ANALYSIS TOOLS	ENERGY AUDITS	LOAD MANAGEMENT	LOANS/ GRANTS	CLEAN ENERGY INCENTIVES	REBATES
Colorado Springs Utility	X	X	X		X	X
Estes Park Light and Power					X	X
Fort Collins Utilities	X	X			X	X
Fort Morgan Utilities		X				
Lamar Power and Light		X				X
Longmont Power and Communications	X	X		X	X	X
Loveland Water and Power						X
Platte River Power Authority		X				X

Electric Cooperatives: Many electric cooperatives in Colorado offer industrial customers incentive programs designed to boost energy efficiency. The following table is a breakdown of the programs offered by various cooperatives according to type.

NAME OF IOU	ANALYSIS TOOLS	ENERGY AUDITS	LOAD MANAGEMENT	LOANS/ GRANTS	CLEAN ENERGY INCENTIVES	REBATES
Empire Electric Association		X				
Grand Valley Power	X	X				
Gunnison County Electric Association				X		X
Highline Electric Association					X	X
Holy Cross Energy		X		X	X	
Intermountain Rural Electric Association		X				
KC Electric Association						X
La Plata Electric Association		X				X
Morgan County Rural Electric Association		X				X
Mountain Parks Electric						X
Mountain View Electric Association						X
Poudre Valley Rural Electric Association	X	X			X	X
San Isabel Association		X				

INDUSTRIAL TECHNOLOGIES PROGRAM

NAME OF IOU	ANALYSIS TOOLS	ENERGY AUDITS	LOAD MANAGEMENT	LOANS/ GRANTS	CLEAN ENERGY INCENTIVES	REBATES
Sangre De Cristo Electric Association					X	X
Southeast Colorado Power Association	X	X				X
Tri-State G&T Association						X
United Power, Inc.					X	X
Sangre De Cristo Electric Association					X	X

Local Resources

Nonprofit Organizations: Numerous nonprofit organizations in the State of Colorado are actively involved in improving energy efficiency within their respective communities. Several of these organizations provide incentives for businesses that seek to become more energy efficient. For instance, the Colorado Carbon Fund offers incentives to commercial operations for reducing carbon emissions. Other examples of these groups include the Community Office for Resource Efficiency, which offers businesses in the Roaring Fork Valley incentive payments for installing solar generation capacity, as well as low-interest loans. Additionally, the StePP Foundation offers renewable-generation and energy efficiency incentives to industrial operations within the state. Southwest Energy Efficiency Project (SWEPP) publishes the Efficiency Guide for Colorado Businesses, an online resource detailing energy efficiency measures and recommendations for businesses in 13 Colorado market sectors, plus profiles on energy service companies and utility efficiency programs in the state.

Industrial Assessment Center: The Colorado State University, with sponsorship from the U.S. Department of Energy, hosts an Industrial Assessment Center (IAC) that offers no-cost energy assessment to manufacturers.

Clean Energy Application Center: The U.S. DOE Intermountain Clean Energy Application Center was formed by the U.S. Department of Energy to increase adoption of energy recycling, including combined heat and power (CHP), waste heat recovery, and district energy. This center provides end users with technical assistance, project support, economic evaluations, education and outreach, and policy reform, , along with other information on energy recycling, such as available financial incentives.

Manufacturing Extension Partnership: The Colorado Association for Manufacturing and Technology (CAMT) is a statewide manufacturing assistance center focused on increasing the strength and competitiveness of Colorado manufacturers. CAMT assists the Colorado manufacturing industry by providing company assessments, customized training and workshops, and hands-on facilitation and implementation.

For More Information

DOE Industrial Technologies Program (<http://www1.eere.energy.gov/industry/index.html>)

ITP Save Energy Now (<http://www1.eere.energy.gov/industry/saveenergynow/>)

ITP State Activities Web site - Colorado (http://www1.eere.energy.gov/industry/states/state_activities/map_new.asp?stid=CO)

ITP State Incentives and Resources Database (http://www1.eere.energy.gov/industry/about/state_activities/incentive_search.asp)

Energy Efficient Upgrades (<http://www.business.gov/expand/green-business/energy-efficiency/upgrades/office-equipment.html>)

Colorado Governor's Energy Office (<http://www.colorado.gov/energy>)

City of Boulder ClimateSmart At Work Program (http://www.bouldercolorado.gov/index.php?option=com_content&task=view&id=1190&Itemid=2165)

Black Hills Energy (<http://www.blackhillsenergy.com/services/dsm>)

SourceGas (http://www.sourcegas.com/business-incentive_programs.aspx)

Xcel Energy (<http://www.xcelenergy.com/Business/Pages/Business.aspx>)

Colorado Springs Utilities (<http://www.csu.org/business/greenback/rebates/item1066.html>)

Estes Park Light and Power Department (<http://www.estesnet.com/LightPower/>)

Fort Collins Utilities (<http://www.fcgov.com/energysaving/eep.php>)

Fort Morgan Light and Power (<http://www.cityoffortmorgan.com/lightandpower.htm>)

Lamar Light and Power (http://www.lamarlightandpower.com/other_services.html)

Longmont Power and Communications (http://www.ci.longmont.co.us/lpc/gen/toolbox/energy_advisor.htm)

Loveland Power & Water (http://www.ci.loveland.co.us/wp/power/Conservation/c&i_ee.htm)

Platte River Power Authority (<http://www.prpa.org/productservices/eeservicesbus/index.htm>)

Empire Electric Association (<http://www.eea.coop/services1.html>)

Grand Valley Power (http://www.trico.coop/key_accounts.html#)

Gunnison County Electric Association (http://www.gcea.coop/Member_Information/)

Highline Electric Association (<http://www.hea.coop/rebates3.htm>)

Holy Cross Energy (<http://www.holycross.com/>)

Intermountain Rural Electric Association (<http://www.intermountain-rea.com/Audits.html>)

KC Electric Association (<http://www.kcelectric.coop/energy-credits.cfm>)

La Plata Electric Association (http://www.lpea.coop/programs_services/efficiencyCredits.htm)

Morgan County Rural Electric Association (http://www.steppfoundation.org/about_us/about_us.htm)

Mountain Parks Electric (<http://www.mpei.com/new-energyefficientcreditsrebates1.htm>)

Mountain View Electric Association (<http://www.mvea.coop/>)

Poudre Valley Rural Electric Association (<http://www.pvrea.com/programs/index.html>)

San Isabel Electric Association Inc (<http://www.siea.com/services/energy-evaluation.cfm>)

Sangre De Cristo Electric Association (<http://www.myelectric.coop/products/eec.cfm>)

Southeast Colorado Power Association (<http://www.secpa.com/>)

Tri-State Generation and Transmission Association (<http://www.tristategt.org/EECPPrograms/index.cfm>)

United Power (<http://www.unitedpower.com/solar.aspx>)

Y-W Electric Association (<http://www.ywelectric.coop/#rebate>)

Colorado Carbon Fund (<http://www.coloradocarbonfund.org/projects.html>)

Community Office and Resource Efficiency (<http://www.aspencore.org/sitepages/pid45.php>)

StePP Foundation (http://www.steppfoundation.org/about_us/about_us.htm)

Energy Efficiency Guide for Colorado Businesses (<http://www.coloradoefficiencyguide.com>)

Boma Energy Efficiency Program (<http://www.boma.org/TrainingAndEducation/BEEP/>)

Contacts

Industrial Assessment Centers for Region
Colorado State University
Director: Dr. Douglas C. Hittle
Phone: (970) 491-8617
Fax: (970) 491-3827
E-mail: hittle@engr.colostate.edu
Web site: <http://www.engr.colostate.edu/IAC/>

Manufacturing Extension Partnership in Colorado
Colorado Association for Manufacturing and Technology
Director: Elaine Thorndike
Phone: (303) 592-4085
Fax: (303) 592-4061
E-mail: Elaine.Thorndike@colorado.edu
Web site: <http://www.camt.com>
Source: <http://blue.nist.gov/centers/CO>

Clean Energy Application Center for Region
U.S. DOE Intermountain Clean Energy Application Center
Director: Patti Case
Phone: (801) 278-1927
E-mail: plcase@etcgrp.com
Web site: <http://www.intermountainchp.org/>
Source: http://www.eere.energy.gov/de/chp/chp_applications/chp_application_centers.html

DOE Regional Contact

Jamey Evans
Phone: 303-275-4813
E-mail: Jamey.evans@go.doe.gov
Source: <http://www.eere.energy.gov/industry/about/contacts.html>

State Energy Office Contacts

Jeff Lyng
Renewable Energy Program Manager
225 East 16th Avenue, Suite 650
Denver, CO 80203
Phone: (303) 866-2264
Fax: (303) 866-2930

EERE Information Center

1-877-EERE-INF (1-877-337-3463)
www.eere.energy.gov/informationcenter