

Colorado State University

Teaching and Practicing Sustainability

Colorado State University is a community leader in sustainability. The University not only teaches sustainability in a variety of disciplines, but is also recognized for its accomplishments on campus, and on well-known projects in the community and beyond. For more information, visit the Facilities Management sustainability web site.

POLICIES & AWARDS

- **Talloires Declaration**

In 2001 Dr. Albert Yates, former University president, signed the declaration committing Colorado State to pursue sustainability through teaching, research, operations, and outreach.

- **2005 Environmental Leader Award Winner**

The University received the Fort Collins Chamber of Commerce award recognizing environmental leadership in the areas of energy, water, transportation, recycling and materials.

WATER QUALITY & CONSERVATION

- **Autoclaves**

Since 2005, Colorado State has installed 42 devices to monitor the drain temperature and use only as much cooling water as necessary, saving over 12 million gallons of water each year.

- **Residence Halls**

The University replaced the toilets, showerheads and faucet aerators in two residence hall towers in 2004, saving one million gallons of water each year.

- **Bioremediation Wetlands**

Staff, in 2004, completed the first of three wetlands to treat contaminate-laden water. Water hyacinths and water lettuce create a lush “learning landscape” while removing the nitrogen and improving the water quality.

TRANSPORTATION

- **Biodiesel**

In October of 2006, Colorado State switched all diesel vehicles on campus to run on 20% biodiesel (B20).

- **Alternative Modes Programs**

Employees carpool or vanpool to work, participate in bicycle or incentive programs that reward those who use alternative modes.

ENERGY EFFICIENCY

- **Green Is Gold Campaign**

This program is a campus-wide energy awareness campaign designed to increase participation by students and staff in energy conservation efforts.



Facility

Colorado State University
Fort Collins, Colorado

Size

Over 8.7 million square feet,
25,000 students

Climate Wise Partner

Since 2001

Partner Level

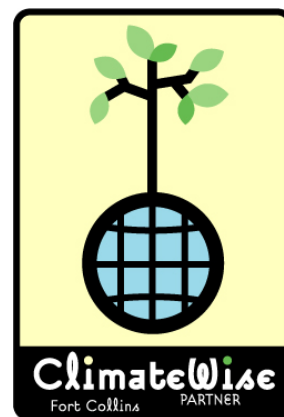
SILVER level partner
2006 award

Web

www.fm.colostate.edu/sustain

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- **Biomass Boiler**

The Foothills Campus biomass boiler is a step towards greenhouse gas reduction through the use of alternative fuels. Woodchips will come from fire mitigation projects and benefit the forest all along the Front Range, especially at a time of pine beetle infestation.

Additional recent projects:

- Retrofitted lighting in over one million square feet of buildings
- Installed variable frequency drives and synchronous drives on motors
- Summit Hall features a Live Green community consisting of students that will participate in sustainability initiatives and pilot projects
- Participated in the Fort Collins Utilities/Platte River Power Authority Electric Efficiency Program.



RENEWABLE ENERGY

- **Maxwell Ranch Wind Farm**

Colorado State is partnering with Wind Holding, LLC to build the largest wind farm on University owned property. This farm will produce 65 – 200 megawatts of electricity.

- **Student Green Power**

CSU developed a program to offer green power to students living in residence halls. Over 700 students have participated since 2004. As a result of this program, Housing and Dining Services is recognized as an EPA Green Power Partner.

- **Solar**

The University is looking to expand the use of renewable energy in the form of solar panels on upcoming projects. In addition, recent buildings have been designed to incorporate more daylighting to decrease energy usage.

SOLID WASTE & RECYCLING

- **Recycling**

During the 2007 fiscal year, Colorado State recycled over 55% of all campus waste.

- **Green Housekeeping**

Purchased 100% recycled disposable paper products and other environmentally preferable products.

GREEN BUILDING

- **Institute for the Built Environment (IBE)**

IBE students provide expertise and support for community green building projects, including nationally recognized projects such as Poudre School District's Zach Elementary School & Fossil Ridge High School

- **Green Classrooms**

An interdisciplinary team of students applied lessons from sustainable design coursework to the renovation of the historic

Guggenheim building classrooms. The project achieved silver certification from the US Green Building Council's LEED-CI rating system.

- **Transit Center**

Students and staff provided green building expertise for the City Transit Center located on the north end of the Lory Student Center. This building received LEED-Gold certification in 2007.

- **Academic Village**

The University is using green building practices to optimize the features of the new housing, dining and learning facility.

- **Green Building Certificate Program**

Developed a 12-week program to meet the needs of professionals interested in including more sustainable practices in their work.

GLOBAL EFFORTS

- **EECL**

The Engines and Energy Conversion Lab staff and students developed direct injection technology to significantly reduce the pollution from 2-stroke motorcycle taxi engines, which received a World Clean Energy Award in 2007. Among other projects, they are currently working to commercialize technology that can cheaply mass produce oil derived from algae and turn it into biodiesel.

Climate Wise

Climate Wise is a voluntary City of Fort Collins program that recognizes and assists businesses in quantifying and reducing their environmental impact. Fort Collins Utilities provides free energy assessments to Climate Wise partners.

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