

## Sustainability at the University of Redlands

Here at the University of Redlands, we aim to be a model of campus and community sustainability. We are recognized nationally for student's efforts towards sustainability, being a part of programs such as Tree Campus USA. At Redlands, we provide a wide array of opportunities in sustainability for students to pursue as volunteer projects, work-study jobs, and educational workshops. Environmental based club, Students for Environmental Action (S.E.A) help promote sustainability through education and programs on campus such as green week. National organization United States Green Buildings Council (USGBC) is a student movement on campus to improve sustainability and building efficiency. Students are also responsible for the construction and development of the Sustainable University of Redlands Farm (S.U.R.F) and the LaFourcade Community Garden. Thousands of volunteered hours were spent planning and producing these beautiful landscapes. Students still work in S.U.R.F on a daily basis to maintain crop growth where crops are sold to our campus food service, Bon Appetit.

### Green buildings

University goes Gold (LEED)—Center for the Arts

University goes Silver (LEED)—Lewis Hall

Green Residence—Merriam Hall

### Energy -- Cogeneration Plant

Redlands cogeneration and chiller plant enables the University to produce a majority of its own energy, as well as heating and cooling for a third of the buildings on campus. *"As one of the 605 colleges and universities across the country to have signed the American College & University Presidents' Climate Commitment, the University of Redlands is committed to significantly reducing its carbon footprint. The cogeneration plant is an important milestone toward this objective."*

- Phil Doolittle, University of Redlands chief operations officer.

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The system uses a 1,500-kW Caterpillar lean-burn natural gas engine, which has a selective catalytic reduction (SCR) system to control emissions. Waste heat produced in the process is used to provide energy for a chiller, which then gives chilled water for the campus cooling loop. The waste heat is also used to help provide hot water for the heating loop.

The idea for an onsite cogeneration plant came several years ago during a state energy crisis. The University consulted with Goss Engineering of Corona, which designed the system; Johnson Power Systems, with which the University has a strong partnership, provided the reciprocating diesel engine and the Kato gen-set, the electrical generator.

The University's efforts to be environmentally conscious resulted in a 30-percent reduction of its carbon footprint—and a rebate of \$739,000 to the University from Southern California Gas Co. (The Gas Company) in 2009 as part of its Self-Generation Incentive Program.

Redlands cogeneration plant not only allows the campus to rely less on outside energy suppliers, it also provides environmental benefits that are equivalent to planting more than 1,000 acres of forest while removing 640 cars from the road.

### Our carbon footprint

On campus co-generation has reduced the carbon footprint by 33%

Facilities Management will eliminate gas-powered vehicles from our fleet by 2012

### Recycling & Annual Recycling Day

Food service provider Bon Appetit's sustainable food initiatives: Farm-to-Fork, Eat Local Challenge, Marine Stewardship Council Sustainable Seafood, Fair Trade, Low Carbon Diet Calculator, Cage-Free Eggs, Crate-Free Pork.

### SURF—Sustainable University of Redlands Farm

The Sustainable University of Redlands Farm (SURF) is a natural farm in its beginning stages, including a Campus Community Garden.

### Programs of Study

Environmental Business

Environmental Policy & Management

Environmental Science

Environmental Studies – Other initiatives include:

Proposals launched for infusing sustainability across the curriculum and developing a minor in Sustainability Studies

Named a "Green College" by the Princeton Review '10, '11

Named a Tree Campus USA by the Arbor Day Foundation '09, '10, '11

A charter signatory of the American College and University Presidents' Climate Commitment