

## UTILITY SERVICES

### Interesting Facts About CU Boulder Utility Services



➤ Facilities Operations is currently engaged in an effort to **'green'** our operations. Recent commitments made by the University, as well as the State legislature, have primarily focused these efforts in the areas of conservation, carbon neutrality and zero waste.

➤ Billions of dollars are wasted every year by appliances even when they are not being used. Save money and the environment by having all your entertainment equipment plugged into a power strip that you manually turn off when you're done.

➤ Approximately 3,600 faucets, 2,000 showers, and 2,000 toilets were retrofitted with low-flow kits. Which, in addition to irrigation improvements, lab water conservation and water conservation campaigns, have saved the campus nearly 100 million gallons of water over the past few years.

➤ CU estimates a savings of \$440,000 a year from using ditch water instead of treated City-water.

➤ All 50,000 sprinkler heads in the CU system are controlled by radio from a computer in a small room off Folsom Stadium.

➤ The City of Boulder regulates CU-Boulder wastewater discharge to comply with Colorado Department of Public Health and Environment, and Federal EPA, regulations.

➤ Our campus is among the top in the nation in regards to its energy conservation focus and environmental stewardship.

➤ The cost of energy on our campus is about \$25 million/year and growing. Almost 100% of our campus electricity is purchased from Xcel Energy. We use about 15,000 desktops/laptops which consume about 4%-5% of total campus electricity (not including associated HVAC cooling load for campus data centers and desktops). The University consumes 120 million kWh (kilowatt hours) of electricity per year.

➤ The University consumes an average of 4,200,000 Ton Hours of chilled water per year and 575 million lbs of steam.

➤ The CU Main campus peak demand for electricity is 19MW, and 150,000 lbs per hour for steam.

➤ A typical 2000 sq ft. house uses 20 mmbtu/yr of natural gas. The Campus plant uses 20 mmbtu/10min.

➤ Two gas turbine generators are each capable of producing 15.2 mW of power.

## USEFUL LINKS

### **Air Care Colorado**

<http://www.aircarecolorado.com/links.htm>

### **Sustainable Colorado**

<http://www.sustainablecolorado.org>

### **Combined Heat and Power**

<http://www.chpcentermw.org/home.html>

### **EPA**

<http://www.epa.gov/>

### **International District Energy Association**

<http://www.districtenergy.org/>

**This link will allow you to do an energy audit on any building on the Boulder campus:**

[www.colorado.edu/conservation](http://www.colorado.edu/conservation)