

UTILITY SERVICES

Electrical services

- The University of Colorado distributes high voltage electricity at both 13.2 kV and 4160 V through University owned transmission cables.

Steam/condensate distribution

- Steam is exported to either the 130 psig or the 10 psig steam header for delivery to the campus. Approximately 80% of our condensate is returned. 300 psig steam is then exported to the gas turbines for Nox control and steam injection for power augmentation. .

Tunnel systems

- The main campus utility tunnel system transports steam, condensate, chilled water, compressed air, electrical and telecomm. The age of the utility tunnel dates to the turn of the century with the majority being constructed in the 1920 – 1960 timeframe.

Chilled water

- The 10 psig steam is used to generate chilled water. 3300 tons of absorption chilling capacity on the plant site and chilled water is distributed through the underground tunnels to 14 buildings on the central campus.

Compressed air

- Compressed air is used for building control systems and in laboratories using pneumatic tools.

Natural gas

- A high-pressure natural gas line provides service to the Power House for conventional and co-generation operation.

Irrigation water

- CU uses shares of Anderson Ditch and Smith-Goss Ditch to water nearly 100% of its main Boulder campus and most of East Research Park and Newton Court. The use and payment for treated water was significantly reduced when large parts of the main campus irrigation systems were converted from treated water to untreated ditch water during the mid-1980's.

Potable water

- The potable lines provide water for domestic, laboratory and fire protection needs.

Sanitary sewer

- Wastewater leaving the campus in sanitary sewers is delivered to the City of Boulder wastewater treatment plant that regulates CU-Boulder wastewater discharge to comply with C D P H E, and Federal EPA, regulations.

Storm drainage

- Storm water is collected by a complex system of on-grade facilities and university storm sewer lines. Most storm-water runoff is routed to Boulder Creek or other creeks.

Outdoor lighting

- The campus outdoor lighting system provides night time lighting to illuminate campus walkways, streets, parking lots, and building entry ways.

Mapping/Locate Services

- Before construction starts on the campus the University of Colorado locate technician marks and identifies lines that are underground. For more information on locate services you may visit www.uncc.org.

Metering

- Most campus buildings are metered for steam, chilled water, electric, water & irrigation use. If you would like to view your buildings energy usage visit: www.colorado.edu/conservation/.

Monitoring/recording cost and consumption/ Billing process and utility budget estimates.

- The short-term and long-term data collected from metering is used to verify performance, initiate trending, or validate energy efficiency improvements, bill campus auxiliaries and to report the annual utility budget.

Utility Interruptions

- We utilize email to notify building occupants prior to planned utility outages. If you would like to be notified about utility outages in your building, you may contact the Service Desk at 303-492-5522. .

Utility Locates

- To request utility locates prior to any underground digging including the installation of signs, tent stakes, or posts, please call 303-735-6630 or the service desk at 303-492-5522.

Non-Working Lights

- Please use the online form for 'Lights Out' <http://www.colorado.edu/facilitiesmanagement/index.html> or call the Service Desk at 303-492-5522.

Utility Billing Questions

- If you have any question regarding billings associated with utility meters you may visit <http://www.colorado.edu/conservation/> and view your buildings energy usage or call 303-735-4981.

Power Plant Tours

- The Power Plant is available for tours. Tours can be tailored to the individual needs of many groups from elementary, middle and high school groups, to university classes, professional groups, and other organizations. Tours should be limited to approximately 25 people although larger groups can be handled with special arrangements and multiple tours. Individuals or groups who are interested in setting up a tour can make arrangements by contacting the Utilities Services at 303-735-4981.