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New Electrical Substation

In mid-August Campus Operations successfully began receiving power directly from Bonneville through their newly built, high voltage electrical substation. Campus community will no longer be dependent on EWEB for any power, rather will receive all power directly from the Bonneville power grid. This new substation has two large 33 MVA transformers. One of these transformers can carry the entire campus load when preventative maintenance needs to be performed on the other one.

Power to the campus will be fed through the new switch house which has four tie breakers installed to make a loop feed. This allows the power to be fed from alternate directions which increases power stability. The new sub-

station proximity to campus also provides voltage stability as it is closer than the EWEB substation that had fed us part of our power source.

Our standby feeders that are fed through our power source are backed by three large diesel generators that have a combined total power capacity of 6.75MW. If something should happen to our primary source of power, these generators have the capability to power the campus standby feeder and certain other critical feeders.

Not only does our new dual redundant substation look sleek and high tech, it provides us with the technology to provide campus the needed power and redundancy that is needed for a large, well respected research campus.



The dual-redundant electrical substation incorporates the latest technology to serve campus.

Did you know?

The first buildings on campus in 1876 were heated by fireplaces in each classroom. Over the years, improvements have been made to the campus heating systems. After the classroom fireplaces, the Lawrence Heating Plant was established in 1924 before the current Millrace Site was developed in 1948. This Central Power Station was originally designed to run off of wood fuel. Today it runs with the aid of two new boilers, with capacity to produce roughly 130,000 pounds of steam per hour between both of them.

UO “Walks the Walk” of Being Green

LEED certification on the horizon for two university buildings.

The Knight Law Center and the HEDCO Education Building will be the first two UO buildings to apply for the LEED certification of existing buildings. “LEED for Existing Buildings” requires building owners and operators to document cleaning and maintenance plans, recycling programs, exterior maintenance programs, and systems upgrades, all with the goal of maximizing operational efficiency, while minimizing environmental impacts.

LEED buildings generally have:

- 13% lower maintenance costs
- 26% less energy usage
- 27% higher levels of occupant satisfaction
- 33% lower CO2 emissions

These two existing buildings must meet specific standards in the following areas: water efficiency, energy and atmosphere, sustainable sites, materials and resources, indoor environmental quality, innovations in operations, and regional priority credits.

Building operators must be meticulous in their planning; from heating and ventilation effectiveness, to cleaning supplies used, to the amount of mercury in the lamps. Paper us-

age is also stressed in the LEED handbook. At least 50% Forest Stewardship Council certified paper products must be purchased.

Beyond basic building standards, there are other requirements that must be met. Surveys are sent to determine the number of students and staff who use alternate transportation on a regular basis. The distance to the bike racks and bus stops from the building is also taken into account. The HEDCO Education Building, built in 2009, has great potential to become a LEED building because of its existing sustainable features. The Knight Law Center, built in 1999, also has great potential to be LEED Certified. Sustainability is already a popular topic among the department. UO’s Law School takes pride in its Green Business Initiative, one of the first law school programs in the country dedicated to the intersection of law, business, and the environment.

Students are working diligently on the preliminary data

collection, so a final report can be submitted by the end of this calendar year. There will then be an intensive three month performance period during which the building’s operation and maintenance is closely monitored and measured. It will likely be next August before the Knight Library can be approved for LEED certification and another four months after that for the HEDCO Education building to receive their certification. We wish our LEED certification team the best of luck in going for the LEED certification for existing buildings.



Knight Law Center is one of two buildings trying for LEED Certification of Existing Buildings. It won't be approved for certification until August of 2012, but preliminary data collection has begun.

After a Year of Construction, Fenton Opens to Students and Staff

Fenton Hall has been in a state of flux since its inception. It began as the first library on campus, nicknamed “Old Libe” in 1907. Then in 1937, the Law School moved into Fenton. Now that the Math Department is housed there, it’s time that the interior be updated from its previous library layout.

The building’s 20,000 square feet have been totally gutted, allowing for seismic structural upgrades, and classroom improvements, including the re-orientation of Lecture Hall 110. The significant demolition has provided opportunities to improve the layout of the spaces as well.

Other upgrades include the retrofitting of the existing ventilation system, and the installation of an energy-efficient hydronic heating system. This project also included the installation of an elevator to increase accessibility to all floors, making the building fully ADA compliant.

To match the traditional exterior of the building, the east entry staircase was removed and rebuilt to resemble the original 1906 layout.



The Mathematics Department is currently housed in Fenton, whose interior has recently been updated.



LEFT: Fenton Hall in 1906, when the building finished construction and became UO’s first library. **RIGHT:** Fenton Hall now, after its recent interior renovations, with much of its exterior preserved.

Helpful Tips

Did you Know?

Office garbage is only emptied once per week. In public areas, such as hallways, the garbage is emptied daily. If disposing food waste, it is best to place it in a trash can in the hallway; this will keep it from creating an odor and attracting ants and other pests.

Reminder:

Please do not feed the birds or squirrels on campus, as this increases the chance of having more rodents in the area.

