

Green Campus Newsletter Humboldt State University

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Issue 20

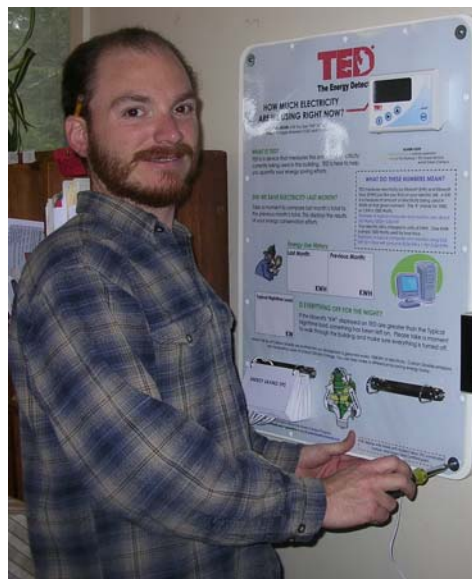
TEDs UP & RUNNING

BY BEN MATTIO

The Energy Detective™ (TED) is now tracking the energy usage of the Campus Center for Appropriate Technology (CCAT), the Multicultural Center (MCC) and the Youth Educational Services (YES) buildings. Each installation includes TED, an interpretive display, and a hands-on tutorial for the staff of each building. Until now, the only way building occupants could see electricity use is when it showed up on the energy bill once a month. TED makes energy use tangible by displaying the electrical load of a building on a simple digital meter in real-time.

TED measures the electricity consumed by each building at the electrical panel and then transfers that information over existing power lines. Plug TED into any outlet and it receives the signal and gives the information in dollars and kilowatts just like a power bill.

Some electrical loads are unavoidable. We measured the "nighttime" load" of each building by killing the power to everything that can be turned off at the end of the day. **CONTINUED PAGE 2**



Ben Mattio tightens the last screw on CCAT's TED Display

HSU PRESIDENT ENDURES GREEN CAMPUS AUDIT

BY JEFF STEUBEN

This year, one of the many offices Green Campus audited was none other than Rollin Richmond's, our campus President. Green Campus auditing and retrofit efforts generated a 25% reduction in annual energy consumption, equivalent to a reduction of 5.2 kWh per day, a substantial amount of savings. His staff was cautious at first, worried that we would use the audit results for negative publicity, but became excited about the audit once it was underway. We found that many of the problems that plague other student and staff offices are the same for the Office of the President. This goes to show that rank holds no grounds when it comes to energy inefficiency. **CONTINUED**

TED CONTINUED:

The "nighttime load" for each building is recorded on the TED Display. With a glance on the way out the door, it is easy to compare the number on TED with the posted nighttime load. If the numbers are close, then everything is off. If the number on TED is larger, something has been left on and the display asks them to do a quick check.

We expect TED to quantify energy conservation efforts, promote energy conservation, and serve as an interactive learning tool. With TED keeping everyone informed of their energy use, we will: save money, reduce our ecological footprint, and help break energy wasting habits. We will soon be holding a focus group to discuss TED's effectiveness.

TED Display Includes:



- Real-time energy usage monitoring device, TED (shown above)
- An introduction to kilowatts and kilowatt hours with examples
- A 2 month history of energy use for that building
- Display of the building's "Nighttime Load"
- Energy saving tips for every room
- An explanation of how TED works

BLACKOUT BASH CELEBRATES ENERGY COMPETITION

BY CARMEN KING

February 22 was Green Campus's first ever Blackout Bash, a free concert on campus to raise awareness about energy efficiency. The concert was linked to the Blackout Battle, which is the energy saving competition that our Energy Management Interns held in the dorms. The "battle" ended right before spring break and the winners will receive half of their total energy savings in cash to buy non-electronic entertainment for their residence hall.

Although the audience was small, the concert ran smoothly, the music was spectacular, and everyone had a great time. DJ J Sun opened the show and the venue began to retain people once the Humboldt Rockers began their breakdancing set. The headlining act, Jah Sun, energized the crowd with his soulful reggae tunes. Be it his vegan song, his passionate speech about the importance of energy efficiency, or his CD printed on recycled paper with soy ink, Jah Sun represents the type of performer we

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REGISTER TODAY!

UC/CSU/CCC SUSTAINABILITY CONFERENCE @ UC SANTA BARBARA, JUNE 24 – 27, 2007

An event not to be missed!!!

<http://www.sustainability.ucsb.edu/conference>

WATCH FOR:

Friday, April 6th &

Sunday, April 8th

Energy Audit Workshop:

Help reduce HSU's energy use and expenditures by learning how to do an energy audit of a building

Wed & Thurs, April 17-18

Energy Audit of HGH:

Green Campus and HEIP's first "Guerrilla Audit" will be of Harry Griffith Hall

Saturday, April 21st

SLAM Fest:

Come enjoy music, art, and celebrate sustainable living. While you are there you can attend Saving Energy at Home (an empowering workshop), the debut of "Phantom Hunter" (our second video) and stop by the Green Campus table to say hello and get a t-shirt!

Saturday, April 21st

Sculpture Contest winner announced at SLAMfest:

All sculptures must incorporate incandescent light bulbs provided by Green Campus. The best three pieces will receive \$\$\$ prizes. All pieces can also be entered in the SLAM art contest and we will pay the entry fee. Artists should register for the competition and get light bulbs by emailing: greenhsu@humboldt.edu

June 24th- 27th

Sustainability Conference:

Register now for the annual sustainability conference. Email Jocelyn if you are interested in ridesharing.

GUERRILLA AUDITS TO TRANSFORM BUILDINGS

BY JOCELYN ORR

Green Campus is teaming up with Humboldt Energy Independence Program (HEIP) to conduct energy audits of whole buildings on campus. The audit team will start with Harry Griffith Hall. This building is a priority because it will be undergoing renovations this summer. Plant Operations and Facilities Management are willing to hear our input for the future of the building.

We will examine Harry Griffith by room type and look for patterns of inefficiencies in each type of room. We will also be looking for ways that energy saving behaviors can be fostered through minor technological changes, like installing light sensors in the bathroom. In addition, we will be looking at ways to increase the day lighting in this building.

Together HEIP and Green Campus will train students to help conduct these 'guerrilla' energy audits. We have generated an audit form for the guerrillas to fill out along with interview questions for the building's users, and once trained they will be able to use their

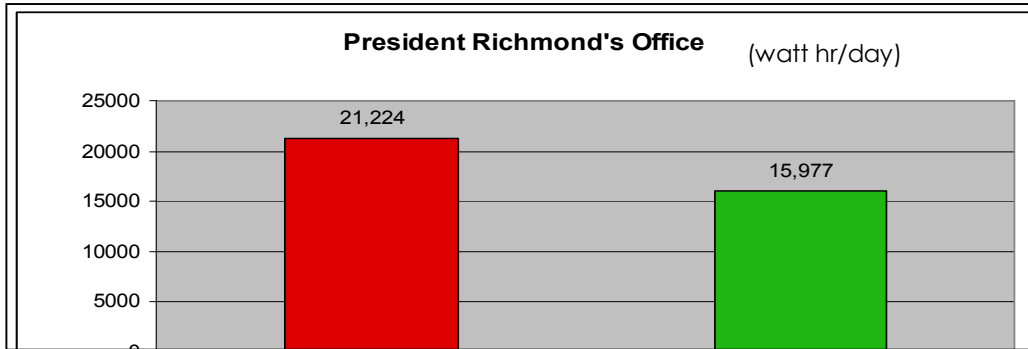


skills to critically examine their own energy use.

After completing the audit of Harry Griffith Hall we will inspect Founder's Hall and Student Business and Services.

The Student Health Center will also be undergoing renovations this summer and Green Campus interns are looking forward to providing input to help Associate Director Mary VanCott pursue a "green" center that meets the image of sustainability that Humboldt State wishes to create. Our hope is to help design buildings that are more efficient and user-friendly.

PRESIDENT CONTINUED:



Our inspection discovered computers with poorly managed sleep settings, phantom loads, and some inefficient equipment, primarily a dinosaur of a coffee maker and a few incandescent light bulbs. One of our recommendations was to add an occupancy sensor for one of the rooms which had poor lighting controls.

In every new office audit that we undertake, we seem to come to the same conclusions: educating staff about little measures, like phantom loads, and updating a few minor inefficiencies can result in an average of 30% reduction of energy use.

Green Campus plans on continuing these office audits until the entire campus is saving money and reducing energy loads. Only then can we rest easy.

BASH CONTINUED:

would like to see at future Green Campus events.

The peak of the show was without a doubt Carmen and Jeff's Green Campus rap about the many ways to save energy. (Don't worry, this performance will resurface at the SLAM Fest April 21). The goal of the event was to attract students who weren't informed about Green Campus or energy efficiency. In hindsight, that may have been too ambitious of a goal, but if Green Campus were to hold another concert, we would market the event more thoroughly and focus on recruiting our supporters.

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