



The statewide Green Campus program at the 5th annual Energy Efficiency Summit in Irvine.

Cal Poly Pomona

Green Campus Program



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Fall Quarter in Review

Inspired by the UC/ CSU/CCC Sustainability Conference in August 2008, the Green Campus Interns began the fall quarter with great momentum. In the fall quarter alone, CPP Green Campus achieved a total savings of 177,271 kWh, or \$24,817.88

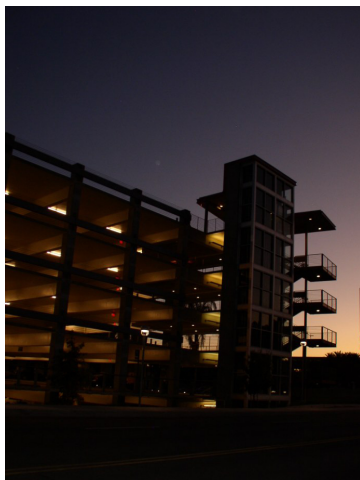
In August, interns planned and presented the University Parking Structure lighting audit to Parking and Transportation Services. Over the course of the fall quarter, Green Campus distributed a total 424 compact fluorescent light bulbs (CFL) during Bronco Fusion, Welcome Week, Housing Check-in, in the Architecture department, the Lyle Center for Regenerative Studies Haunted House, and the Rideshare fair. The CFL Exchange events gave us the opportunity to collaborate with many organizations on campus. The interns finished the quarter compiling the results of their "Reduce the Juice" pledge, in which 44 participants committed to reducing their energy use in some way. The competition achieved an estimated savings of 121,875 kwh, or \$17,062.50 in the residence halls. Green Campus anticipates even greater savings in 2009.



Welcome Week was one of the many tabling events that were held in Fall Quarter.

Recent Projects	kWh Saved	\$ Saved
Reduce the Juice Competition	121, 875	17,062.50
CFL Exchanges	55,396	7,755.38
Total	177,271	24,817.88

Parking Turns off the Lights



Parking Structure at dusk.

If you've passed by campus after midnight, you may have noticed that the Parking Structure is no longer a glowing energy hog during all hours of the night. Since December 15, 2008, the main lighting circuits of the parking structure have been programmed to turn off from 12am-6am every day saving thousands of kilowatt hours of energy for the university (see below for details)!

How did this come about? It all began in the spring of last year, when a group of student-interns from the Green Campus Program noticed that the newly built Parking Structure's lights remained on 24 hours a day, 7 days a week. They approached Energy Services Manager, George Lwin of the Facilities Planning and Management department with their concerns, and created a plan to conduct a lighting audit of the structure. Green Campus interns then presented their plan to Parking and Transportation Services who supported the idea, and gave interns approval to conduct a lighting audit of the structure during spring break. Using baseline light level readings and experimental test results, the team came up with two major options to reduce energy consumption in the structure on a large scale.

These results were presented in September 2008 to Parking and Transportation Services Director Glenn Shenker by Green Campus Program Coordinators, Brandon Ro and Razilee Tadeo. In this report Green Campus proposed two potential options of how to save energy within the structure. Option 1 consisted of using varied lighting levels on the different floors of the parking structure during the daytime, and option 2 involved utilizing a de-lamping strategy. Green Campus also presented and discussed alternative strategies that included part-time shut downs during nights, weekends, holidays, and breaks.

As a result of this meeting, Parking and Transportation Services has implemented nightly power downs of all auxiliary lighting within the Parking Structure. This action projects a potential yearly energy savings of 154,000 kWh and \$22,000. These savings help prevent as much as 74.5 tons of greenhouse gas emissions.

This is the same as the CO₂ emissions from the electricity use of 9.4 homes for one whole year or the annual greenhouse gas emissions from 12.4 passenger vehicles (Source: www.epa.gov). Parking Transportation Services and the Green Campus Program is assisting Cal Poly Pomona reduce its carbon footprint in support of President Ortiz's Climate Commitment. Saving projections will be verified and updated as the year progresses.

January CFL Exchanges

On the 27th and 29th of January, Green Campus Interns held their last CFL exchanges for the academic year distributing 153 bulbs. On January 27th, the team held an exchange with the American Planning Student Association's (APSA) team meeting in the College of Environmental Design, and another CFL exchange with Housing at the Los Olivos dining hall entrance on January 29th. Many students were drawn to the table and were interested in finding out more ways to save energy. Green Campus interns were delighted to see new and familiar faces participating in the event. A large number of students have already been using CFLs throughout their home. Despite this fact, Green Campus was able to get out 153 bulbs to residents.



Members of the American Planning Student Association proudly show off their CFLs

Did you

In 1998 the US made 3,620 billion kWh of electricity. About 70% of this was made from fossil fuels. (www.ecokidsonline.com)

Know?

CFL Exchanges:

American Planning
Student Association: 48
Housing Recycling
Competition Kick Off: 153
RS 302: 29
Total: 230

Total Energy Savings: 18,492 kWh**Dollar Savings: \$2,588.88**

Metrics

Energy Efficiency Summit 2009



On January 24-26th, the CPP Green Campus team traveled to Irvine, CA for the Alliance to Save Energy's 5th annual statewide Green Campus Energy Efficiency Summit. The Summit brought together students, staff, and faculty from 13 UC/CSU and private universities to share energy efficiency project best practices, develop new project ideas, and network with utility and energy professionals.

The Summit began on Saturday with a casual welcome dinner for interns and Green Campus staff. The all day intern training on Sunday began with morning tracks based on experience. Sessions ranged from a "Boot Camp" for new interns, intermediate energy audit training for continuing interns, and a resume, cover letter, and interview training for graduating interns. The highlight of afternoon was the peer-led stations facilitated by Green Campus interns. Projects highlighted included UC Irvine's fume hood adaptor and competition, UC Merced's LED tube lighting display, Cal Poly SLO's Dining Dishwasher Retrofits and bundled rebate projects, HSU's The Energy Detective, and UC San Diego's LEED building certification projects. More information regarding these presentations can be found at <http://www.ase.org/content/article/detail/5254>. This session provided

other campuses with new project ideas, and touted the success and effectiveness of our programs throughout the state.

On Monday, the Summit reconvened over 100 Green Campus interns, stakeholders, and energy professionals representing utility, governmental and non-profit organizations. California Public Utilities Commissioner, Timothy Simon and UC Irvine Chancellor Michael Drake were among the keynote speakers who discussed the importance of addressing climate change through energy efficiency and education. The World Café discussion in the morning allowed greater interaction with all attendees where new project ideas, how to best implement them, creative marketing, how to create more interest in energy efficiency, and how to get others outside of Green Campus involved were discussed. The Green Campus best practices showcase featured collaborative work between students campus staff, such as Cal Poly San Luis Obispo network based power management project with Big Fix, academic integration courses at Humboldt State, and UC Santa Cruz's bi-level LED outdoor lighting project. And finally the Summit culminated with a campus working session with stakeholders and interns brainstorming projects for the upcoming quarter. Overall, the interns learned a great deal and are excited to implement some of the ideas that came out of the event.



Attendees listen to UC Irvine's Chancellor Drake talk about the importance of the Green Campus Program at Irvine.

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