

# Berkeley Green Campus

Green Campus Program Coordinators:  
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As Green Campus Program Coordinators at UC Berkeley, we have set goals to educate students, staff, and faculty on the importance of energy conservation and realize real energy savings on our campus. To achieve these goals, we have worked on several programs throughout this year as explained below.



Left: Students exchange their light bulbs for energy efficient ones at the campus dining halls.



Right: Students design posters to advertise the Blackout Battles energy competition.



Below: Students win green products after a raffle at the Sustainability Fair.

## Housing Projects

### Light Bulb Exchange

Green Campus coordinated its third light bulb exchange, where we trade residence hall students' 60 watt incandescent bulbs for 13 watt energy efficient compact fluorescent lamps in the residence halls (CFLs). We have distributed 1,400 bulbs this year, with a total of 4,550 bulbs exchanged in the past three years. In addition, each student that was given one of the bulbs also signed a pledge stating that they promised to conserve energy.

### Blackout Battles Energy Competitions

We held our fourth Blackout Battles energy competition between the different residence halls in the fall semester and our fifth in the spring, encompassing over 5,000 students. The hall with the highest percentage decrease in electric usage compared to the usage of the past three years is declared the winner. This year our fall competition yielded an average energy savings of 11.29% and our spring competition had an 11.67% energy reduction in the targeted residence halls compared to the set baseline level!

### Green Demonstration Areas

The Green Demonstration areas are comprised of the Green Room, Green Apartment, and Green Suite. These interactive demonstration areas teach students, faculty, and staff how to easily live a more sustainable lifestyle. They each address four different aspects of living a more "green" lifestyle: waste, energy usage, water usage, and purchasing decisions. The Green Room focuses on the life of a typical dorm student, while the Green Apartment looks at apartment living, including topics such as bulk purchasing and cleaning products. The Green Suite, which opened in April, focuses on "green innovations," with many structural changes, such as no-voc paint, pressure assist toilets, and recycled carpet. To date the Green Demonstration Areas have appeared in 17 news publications and they have been toured by 365 people including students all over California, UC Berkeley staff and faculty, and community leaders.

### Residence Hall Staff Outreach

Green Campus has worked with the student hall staff members in the residence halls for three years. We have given six presentations, with information about sustainability at their training sessions, including two presentations to over 120 student leaders this year. This collaboration has resulted in the first Think Green! Sustainability Fair, where over sixty students learned about reusing waste and how to be more energy efficient.

## On-Campus Projects

**Energy 101 Class:** We are currently running the fifth semester of our Energy 101 DeCal course, which incorporates innovative curriculum to engage a class of 30 students through awareness, education, and activism. In the Fall 2006 and Spring 2007 semesters, students participated in two different projects: in-room energy audits and group projects. In the in-room audit, students were given tools to examine the sources of their primary residential energy usage and assess its impact on the environment and the economy. The group projects involved running publicity campaigns for the Blackout Battles energy competitions. Students also had the opportunity to calculate their ecological footprint, see solar panels on campus, ride in a hydrogen vehicle, and hear from several sustainability specialists.

**Vending Misers:** Green Campus is working to implement vending misers on campus vending machines. In April 2006, we piloted this technology, installing four misers in the ASUC. Based on our energy monitoring, we have found that UC Berkeley can save about \$5,500 annually by implementing these devices on 40 campus vending machines. We installed nine additional vending misers last month and will be expanding over the summer. The misers we have installed will save over \$1000 per year.

**Campus-wide Green Events:** Green Campus has collaborated with several different environmental groups to host large on-campus awareness events including Sustainability Week, the Climate Change fair, and Earth Week. During each of these events, we have tabled on campus and in dining facilities to distribute energy savings tips, free buttons, CFLs, pens, and educate students on the importance of energy conservation by promoting the use of compact fluorescent light bulbs and power strips.

**"Shut the Sash" Fume Hood Project:** The "Shut the Sash" campaign targets Tan Hall and Birge Hall and involves placing stickers on fume hoods as a reminder to close the sashes on the hoods to a safe level when they are not being used, educating instructors at meetings, and going on monthly walkthroughs of each lab. Based on results of similar campaigns at Harvard and Duke University, we estimate this project could potentially save \$190,000 per year through reductions in the volumetric flow rates of Variable Air Volume (VAV) fume hoods.

**Green Sorority:** With the help of Green Campus, the Psi Chapter of Alpha Delta Pi sorority will be initiating a comprehensive campaign to promote sustainability in their chapter house, geared toward achieving Green Business Certification from the city. The proposed project was unanimously approved by the House Corporation Board of the chapter. Green Campus interns conducted an energy audit of communal spaces in the house and will be installing 48 light bulbs, with an estimated savings of over \$300 per year. This project will be a long term collaboration that will lay the foundation for spreading greener, sustainable living practices to more than 40 Greek chapters at UC Berkeley.



Left: Energy 101 students learn about their carbon emissions.



Right: Vending misers installed on two machines in Wheeler.



Left: Green Campus Coordinators table on Earth Day.

## TOTAL Energy Savings from All Programs

	0405 Housing	0506 Housing	0607 Housing*	0607 Misers	TOTAL
% Saved	3.85%	8.62%	11.26%	26.52%	
\$ Saved @ \$.10 kWh	\$18,925.50	\$43,258.10	\$52,755.10	\$183.79	\$115,122
MWh Saved	189.3	432.6	527.6	1.8	1151
CO2 Emissions Avoided (lbs)	215278	492061	600089	2091	1309518
Cars Taken off the Road	18.6	42.6	51.9	0.2	113



Chancellor's  
Advisory  
Committee on  
Sustainability

The success of these programs resulted from a significant amount of collaboration between Green Campus Coordinators and various campus groups, departments, and individuals including: Residential Student Services and Programs (RSSP), Residential Sustainability Education Coordinators (RSECs), the Green Room Committee, Hall Staff Members (Resident Assistants and others), Housing Facilities Managers, the Campus Recycling Manager, the Campus Energy Manager, the Housing Director, Professor Dan Kammen, office clerks, and many others.

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