

Green Pastures

CAL POLY POMONA

Green Campus Awarded Statewide Grant
Funds for Los Olivos Dining Commons Retrofit



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A Publication of the Green Campus Program at Cal Poly Pomona

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What is the Green Campus Program?

The Alliance to Save Energy's Green Campus Program empowers college students to be tomorrow's energy efficiency leaders. Currently on 16 universities and colleges and employing over 75 interns each year, the program engages students in building pathways to green careers, realizing measurable energy savings, infusing energy and energy efficiency concepts into academic curricula, and promoting energy efficiency awareness. Green Campus interns work closely with faculty, staff, administrators, and other students to engage them in energy efficiency projects.

For more information please visit our website:

www.GreenCampusCPP.org

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On the Cover

California State Student Association (CSSA) awards Green Campus funds to retrofit Los Olivos Dining Commons (see page 6).

Right

Green Campus intern Krishna J. Hernandez-Pruhs helps a fellow student sign up for Earth Hour (see page 3).



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WE WANT YOU!

Are you interested in sustainability? Do you want to help Cal Poly Pomona save energy? If so, the Green Campus Program would love your help and participation!

If you would like to get involved on campus, contact us at greencampus.cpp@gmail.com!



ALLIANCE TO
SAVE ENERGY

Creating an Energy-Efficient World



A Sempra Energy utility



A Sempra Energy utility

The Alliance to Save Energy's Green Campus Program is funded by the ratepayers of California under the auspices of SCE, SDGE, PG&E, and Sempra Energy.



Photo Above: A student successfully signs up for Earth Hour and shows off his brand new Green Campus t-shirt with intern Crystal Huang.

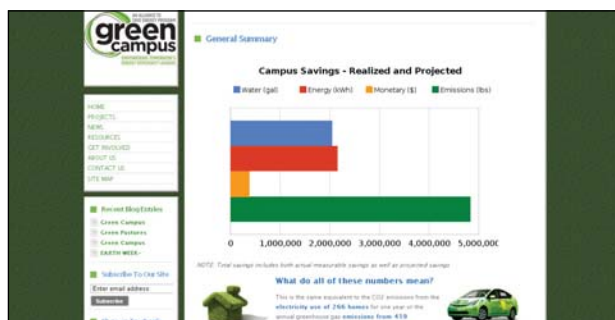
Earth Hour Sign-Ups at University Quad

By Crystal Huang

On March 10th, Green Campus set up tables outside Building 5 in promotion of Earth Hour. Using online forms, passersbys were able to "sign up to power down" with Green Campus for one hour on Saturday March 26th. By pledging to shut off all lights from 8:30 to 9:30pm, Cal Poly Pomona joined the global sustainability movement that involved countries from all around the world. In addition to taking a stand against climate change, participants also scored some free t-shirts and canteens with printed Green Campus logos!

MISSED EARTH HOUR? DON'T FRET!

Join Green Campus and Green Team on Tuesday, April 19th at U-Hour to celebrate **Earth Week**! Show up to take our Sustainability Pledge and grab some free swag. For a full list of Green Team-hosted activities, please visit: www.cppthegreenteam.weebly.com. See you at Earth Week around University Park and the BSC!



WHAT'S NEW?

Green Campus Cal Poly Pomona has revamped the website! The screenshot above is the old website, and one on the right is the new website!

Visit us at:

www.greencampuscpp.org

A screenshot of the new Green Campus website. The header features the text 'Cal Poly Pomona's Green Campus' and 'empowering tomorrow's energy efficiency leaders'. Below the header is a navigation bar with links: HOME, PROJECTS, NEWS, RESOURCES, GET INVOLVED, GREEN SPACE, ABOUT US, CONTACT US, and SITE MAP. The main content area has a 'GREEN CAMPUS NEWS FLASH' section with the headline 'Will You Join Green Campus for Earth Hour?' and a large graphic of the number '60' with 'EARTH HOUR' written below it. To the right of the main content is a 'Recent Blog Entries' section with links to 'Read the Latest News In', 'Will You Join Green', 'Cal Poly Pomona Wins', and 'Green Campus Releases Its'. Below that is a 'Subscribe To Our Site' section with an email input field and a 'Subscribe' button. At the bottom right is a 'Share on Facebook' section with a 'Share on Facebook' button.

Green Campus Initiates Collaborative Xeriscaping Project

By Krisha J. Hernandez-Pruhs

As many are already aware, turf (also known as grass or lawn), requires excessive amounts of watering in order to remain green in warmer months here in Southern California. This is very true for our home at Cal Poly Pomona, where lawns and turf areas require watering year round to remain green, mostly due to the arid climate that our campus sustains. It is for this reason that many who live in regions such as ours, have decided to transform their lawns into xeriscaped yards. Xeriscaping is a concept of minimal water usage in outdoor spaces that usually incorporates native plant species that use little water and retain as much rainwater as possible, removing the need to water turf with potable drinking water.

With a goal of creating actual water savings on campus, the Green Campus interns have begun working with stakeholders, including Energy Services Manager George Lwin and Manager of Landscape Richard Farmer, to identify an area of the Cal Poly Pomona campus where a xeriscape-based design could be drafted and implemented. While areas have been identified as potential xeriscaping locations, the interns wanted to incorporate the students of Cal Poly's own Landscape Architecture program, specifically those who are actively pursuing course work in sustainability through the curriculum of the Regenerative Studies program. Therefore, three senior Landscape Architect students were recruited as Green Campus volunteers to work with the interns and stakeholders on the upcoming xeriscaping projects, thus building pathways to future green careers through actual job training with the stakeholders as the clients.

Presently, two plots of turf grass - both on Citrus Lane - have been identified for removal and are slated to be replaced with a new landscape design with the xeriscaping concept. It is the hope of the Green Campus interns that the xeriscaping projects will be expanded across campus, providing actual water savings while providing a mechanism to green career training for additional students as the projects continue to unfold.



Left to right: Senior landscape architect students Gabe Madera, Joshua Vanduyne, and Oscar Gomez stand in the lawn that will be replaced with California native plants.



Photo courtesy of www.seekershof.wordpress.com
Photo Above: An example of a drought resistant garden with cacti, succulents, and a rockbed.

Green Campus By the Numbers - March 2011

EVENT	ENERGY	WATER	CO2 EMISSIONS	\$\$\$
Green Commons (Los Olivos Dining Hall) Lighting Retrofit*	22,492 kWh	n/a	15,384 lbs	\$3,036
External Walkway Lighting Audit**	3,806,730 kWh	n/a	2,603,803 lbs	\$513,908

NOTES: *Comprises projected savings for 4 years. **Comprises project savings for 15 years.

Are You Going Green?

Take the Cal Poly Pomona Green Campus Sustainability Pledge today! This is a simple way you can commit to saving energy, water, resources, and money.

* Required

I pledge to...

Take shorter showers by 2 minutes *

- ☐ Yes
☐ No
☐ I already take short showers

Turn the water off when I brush my teeth or shave. *
You could be wasting 1 gallon of water every minute!

- ☐ Yes
☐ No

Sustainability Pledge Gets a Makeover!

By Crystal Huang

Cal Poly Pomona's Sustainability Pledge has been advertised all across campus from the ENV College to Parking and Transportation Services. An integral part of the Green Campus Program's outreach, we are proud to announce that the Sustainability Pledge has gone through some changes in its format and content. The updated form is available on the website. So if you haven't already, sign up to join Green Campus in promoting sustainable behavior for a more efficient future! The pledge is online at: www.greencampuscpp.org/sustainabilitypledge.htm

Left: A screenshot of the brand new Green Campus Sustainability Pledge. All 16 campuses use a variation of one adapted by Alliance to Save Energy staff.

Have You Noticed?

By Krisha J. Hernandez-Pruhs

If you have not already noticed, your Green Campus team at Cal Poly Pomona has been in lights this past month. Poly Post noticed the work that Green Campus is doing, as can be seen in the article posted on February 28th at <http://www.thepolypost.com/news/students-promote-greener-future>. Also, Green Campus' efforts to invite Cal Poly staff, students, and faculty to commit to participating in Earth Hour 2011 was flashed on the campus marquees. Furthermore, interns were able to meet the students in front of building 5 during finals week and distribute free CFLs, reusable water bottles, and t-shirts. Look for Green Campus out and about during Earth Week in April to get your own green gear!



ENERGY HOG MAKES AN APPEARANCE AT NEARBY ELEMENTARY SCHOOL

Green Campus interns Andrew Coyne, Cynthia Joe, Haroon Rahmani (Cal State Fullerton), and Emily Edris (Cal State San Bernardino) performed a skit to elementary school students at Newman Elementary in Chino, California. After speaking about energy saving behavior, the Energy Hog Buster (above, to left of the Energy Hog) helped students solve a secret message which was revealed to be "Save Energy, Don't Be An Energy Hog!"

California State Student Association Awards Grant for Los Olivos

By Andrew Coyne

After months of anticipation, the Green Commons project is finally becoming a reality! Over Spring Break, University Housing facilities personnel completed a Green Campus recommended retrofit of the lights in Los Olivos Dining Commons, replacing all the 32W fluorescent lamps with more efficient **25W lamps**. This was made possible through a "Greenovation" grant from the California State Student Association (CSSA), which is awarded to student-led sustainability initiatives on CSU campuses. Cal Poly Pomona's Green Campus team submitted a grant application for the Green Commons project in late February and received the exciting news this past month that the application had been approved and that the CSSA would fund the purchasing of the new lamps in Los Olivos. The interns immediately contacted Barney Wright, Facilities Manager of University Housing Services and made arrangements with him to install the new lighting. The projected annual energy savings from this retrofit is **5,623 kWh**, and an **annual monetary savings of over \$750**. With a lifespan of approximately four years, the new lamps will ensure that Los Olivos Dining Commons will reap the benefits of this Green Campus project for years to come. The interns' appreciation goes out to George Lwin, advisor to Green Campus, for his expert advice during the preparation of the report and for his assistance with coordinating the implementation of the retrofit. Special thanks are also in order to Barney Wright and Patrick McCoy (Manager of Los Olivos), whose active support and involvement made this project a reality.

Interns Present Induction Lighting Savings to Facilities

By Cynthia Joe

In August 2010, Green Campus Program alumnus Brandon Ro conducted a campus-wide audit of Cal Poly Pomona's exterior walkway lights. By November, he completed a report and suggested the following three options for all Kim lights on campus (which currently contain 175 watt metal halide bulbs): (1) replace with 100 watt induction bulbs; (2) replace with 70 watt induction bulbs; or (3) replace with 70 watt induction bulbs and install motion sensors. Induction lighting lasts 15 years in comparison to metal halide lighting which only lasts 3.5 years. Not only does metal halide lighting have a shorter bulb life, but they also cost more to maintain and use more energy. Early in March, Brandon Ro (now working as a student assistant for Energy Services) and Green Campus intern Cynthia Joe presented the audit findings to Mechanical Services Manager Don Johnson and Electrical Maintenance Shop Supervisor Earl Roberts. If Cal Poly Pomona switches to induction lighting in all Kim fixtures with **70 watt bulbs** (the recommended strategy), **annual savings would be 253,782 kWh and \$20,435**. Both Johnson and Roberts responded with positive feedback and supported the decision to switch from metal halide to induction lighting. More information about the exterior walkway lighting audit is in our October 2010 newsletter issue: www.greencampuscpp.org/Newsletters/CPPGreenPastures_October%202010.pdf.

*Upper right: Intern Cynthia Joe and Energy Services student assistant Brandon Ro present audit findings to Office of Facilities and Management staff.
Lower left and right: The induction bulb (left) would replace metal halide bulbs in Kim lighting fixtures (right).*



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