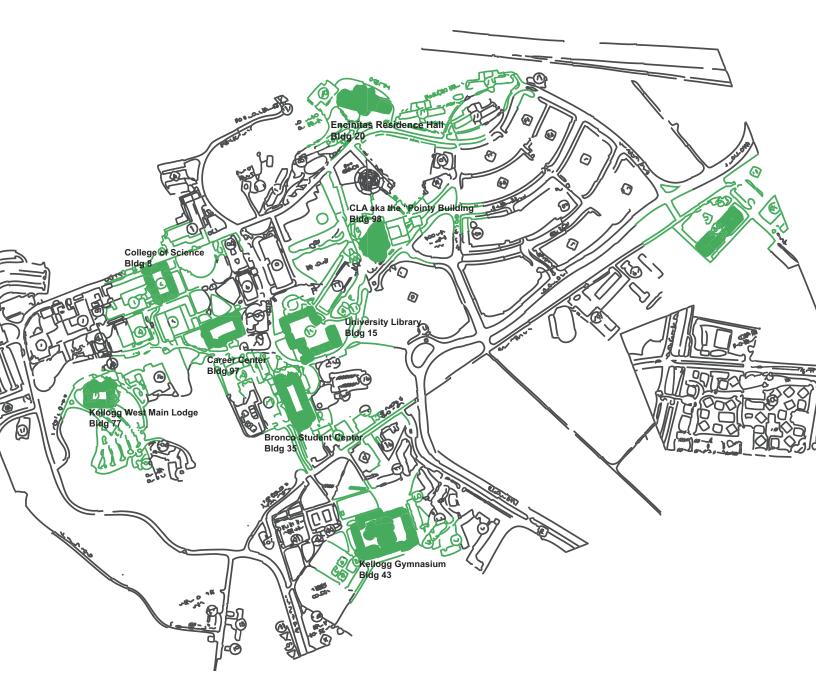
Green Pastures CAL POLY POMONA



Happy New Year from Green Campus! What we are looking forward to this year



Green Pastares CAL POLY POMONA



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

For general inquiries contact us at:

greencampus.cpp@gmail.com

Editor In Chief Senior Editor Contributors

Danielle Lauber Crystal Huang Grace Jaen Sony Bui

Bringing in the New Year...

The Cal Poly Pomona's Green Campus interns have a few exciting new projects for the new year and quarter!

- WiFi THermostats
- Sustainability Course Guide
- Campus Conservational Nationals
- PLOS Smart Strips

On the Cover

A preview of Cal Poly Pomona's poster for the 2012 Energy Efficiency summit featuring Green Space. pg 7

Right

The UC Berkeley campus, where 2012's Energy Efficiency Summit will be held.



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Saving Energy Has Never Been This Simple

By Grace Jaen

If you want an easy way to save energy while simultaneously reducing your electricity bill, then the installation of Plug Load Occupancy Sensors or "Smart Strips" is the smartest way to go! Simply put, Smart Strips detect motion in the workspace. When the workspace is unoccupied for 30 minutes, the Smart Strip shuts off power to selected outlets, leaving power on only for the devices that need it. When the sensor detects motion in the workspace, power is restored. The power strip also protects all of your equipment with surge suppression and AC line noise reduction technology. The Green Campus has already installed over 1,000 Smart Strips around campus, including the colleges of Agriculture and Letters, Arts, and Social Sciences. And with the implementation of an additional 200 Smart Strips in offices like yours, the potential annual savings for Cal Poly Pomona will total over \$20,000. If your office is interested in having the power strips installed for free, contact the team at Green Campus for more information. We all should try to reduce our environmental impact while here on earth and Smart Strips are simple solutions that not only reduce our energy use, but help our campus save thousands of dollars.



Future of Etap

By Sony Bui

In May 2011, Cal Poly Pomona provided information on the HVAC (Heat, ventilation, air conditioner) systems of the Old Administration Building, Agricultural Building, and the Aerospace Building to ETAP, an Energy Technology Assistance Program. A plan was drawn using this information to estimate the energy and financial savings of retrofitting the buildings with the new wireless HVAC controls. ETAP claimed that the switch to the new wireless HVAC system shows a potential energy savings of approximately 272,000 kWh and 15,600 thm per year with a total financial savings of \$45,000 a year after three years. In addition to the savings, the report also indicates a reduction of Green House Gas emission of roughly 202 MTCO2 per year.

One of ETAP's wireless HVAC technologies, VigilentTMDARTTM, was recommended for the retrofit due to its additional HVAC advanced control system. Overall, DARTTM has a higher potential output due to its performance of handling Constant Air Volume (CAV) and Variable Air Volume (VAV). During ventilation and climate control, DARTTM operates using a network of wireless sensors which can monitor temperatures throughout a building and adjust the airflow accordingly. Compared to other ordinary retrofit, DARTTM optimizes its fan rotation cycle which is both cost and energy efficient. With the new HVAC installation, wireless control system can help modernize new ways of saving energy and lead Cal Poly Pomona to become a greener campus.



Career Center Green Certified!

By Grace Jaen

Congratulations to the Career Center for being the newest department at Cal Poly Pomona to become Green Certified! Dawn Finley, Job Location & Development Coordinator at the Career Center, stepped up as their representative and, along with the rest of the staff, dedicated their time and efforts to making their department more environmentally friendly. By making simple changes around the office like turning off unattended computer monitors and making recycling bins available in all common areas, Dawn Finley and her co-workers was able to successfully finish the Green Space program and received the highest certification level! But what is Green Space and how do I become certified? Green Space is a simple energy assessment and certification program for buildings on campus. The goal is to award departments and offices with a certification rating and recognize their outstanding sustainability efforts to lower their environmental impact. The Green Space program identifies a set of conditions and actions – some optional and some required – that departments should implement to improve sustainable practices. Essentially, a do-it-yourself audit! All levels of certification are based on a point system and are valid for 2 years. They include the following (from highest to lowest):

Green (Prerequisites and 40+ points) Silver (Prerequisites and 35+ points) Bronze (Prerequisites and 30+ points)

And it's so easy to get started! Just go to the Green Campus website at www.greencampuscpp.org/greenspace.htm to begin the first steps by having a representative from your department or office submit an application online. And shortly after submitting your application one of the Green Campus interns will be in contact with your department to discuss the next steps. If you want to find out more about the Green Space program simply visit www.greencampuscpp.org/greenspace.htm

Engage our Energy Future

By Grace Jaen

Did you know Southern California Edison, a subsidiary of one of the largest electric utilities company in California, has dozens of environmentally friendly programs and rebates that help you save money, while reducing your carbon footprint? These changes can be as simple as replacing your old incandescent light bulbs with new CFLs, which use up to 75% less energy than incandescent bulbs and last up to 10 times as long. SCE believes saving energy is an important part of our future. Which is why Green Campus and the Green Team are helping SCE host Engage our Energy Future, a fun, educational event where representatives from all three organizations will have exciting activities for students to participate in while learning about the importance of energy efficiency. Engage our Energy Future will be held Monday January 23 at 10 am at University Park, outside the BSC. There you will be given the opportunity to voice your opinions on energy conservation, and discuss with SCE staff which programs you can become a part of in order to save money and help reduce your environmental impact. So what's stopping you?! Come join Southern California Edison, the Green Team and Green Campus on January 23rd, 10 am at University Park for Engage Our Energy Future!!



Sustainability Pledge Sheet

BUCK THE JOHNSON BUCK T	"I piedge to sustain Cal Poly Pomona's climate commitment and sustainability efforts. This year, I will commit to at least 3 new ways to reduce my own certificational impact." Pleific Bas and Belletic Company Woman and Supplemental	I pledge to take shorter showers by 2 minutes	I pledge to turn the water off when I brush my teeth or shave	I pledge to turn off the lights when I leave a room.	I pledge to plug appliances into power strips and turn off when not in use.	I pledge to replace one incandescent light bulb with a CFL	I pledge to activate power save features on my computer so it "sleeps" when I'm not using it.	I pledge to wash loads of laundry in cold water each month.	I pledge to dry loads of laundry each month on a clothesline or drying rack instead of a clothes dryer.	Volunteer with Green Campus	Free monthly Newsletter subscription
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NOTE: Pledging to all actions can potentially save up to \$1,000, 10,500 gallons of water, 3,500 kWh of energy, and 14,000 lbs CO2 emissions annually! (Source: EPA)

New Sustainabiliy Pledgel

The Sustainability Pledge has been updated once more! An essential component of Cal Poly's Green Campus program, the sustainability pledge promotes sustainable behavior getting pledges to commit to a year of more efficient living. Available on our website and at our tabling events, come an join Green Campus in advancing to a more sustainable future!

http://www.greencampuscpp.org/sustainabilitypledge.htm

Wi-Fi Thermostats

By Sony Bui

Recently, the Green Campus team has been approved by the CSSA Greenovation to start implementing the WiFi Thermostats Project. With this approval, the team will begin retrofitting the Facilities and Management buildings with the new wireless thermostats. The objective of this project is to compare the energy savings of the programmable wireless thermostats with the ordinary thermostats. While ordinary manual control thermostats require the time and the effort to be individually maintained, wireless thermostats can easily be managed through a central unit which remotely monitors and controls all thermostat units within the network. These individual thermostat units can be programmed to automatically update for optimum energy savings, resulting in systems running at full capacity during the busiest times and running at lower capacity during nighttime or weekends. With this installation, technicians can simply flip a switch to adjust the changes for the thermostats without being on campus.

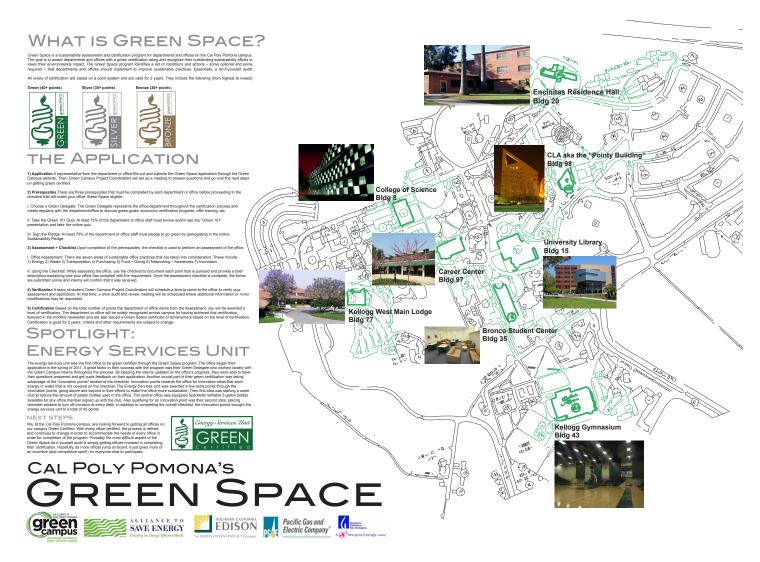
Between January and February 2012, the Green Campus team will be working with the staffs from the Facilities and Management to collect energy data from the two different thermostats. If the wireless thermostat proves to be the next innovative technology capable of reducing the usage of energy and the maintenance cost, a campuswide installation project could be implemented in the future. Overall, Cal Poly Pomona University would greatly reduce the amount of GHG emission, save thousands of dollars per year, and also set an example for other CSUs to follow.



Green Campus By the Numbers - A Summary of 2011

	Actual Savings	Potential Savings				
ENERGY	22, 492 kWh	3,890,539 kWh				
WATER	17,600 gal	319,010				
COST	\$3,115	\$527,695				

NOTES: *Comprises potential, projected savings for 1 year. **Comprises of actual savings for 1 year.



Sneak Peek: 2012 Summit at UC Berkeley

By Crystal Huang

In just a few weeks, the Green Campus interns will be attending the annual Energy Efficiency Summit at UC Berkeley! Events featured include training sessions and networking opportunities, as well as speakers such as the Director of Global Facilities for Adobe, Michael Bangs. This 2012 Summit will leave attendees with a better understanding and deeper knowledge of current energy efficiency issues and possible next steps. Also featured during the Summit is a poster competition between the Green Campuses, highlighting their favorite project from the past year. This year, the Pomona campus designed a poster to detail the Green Space office audit project. On the track to get the entire campus certified, the Poster competition gives each campus a chance to show off how much they have done and also receive some feedback. Each poster is also judged on design and content. Hopeful, the Cal Poly Pomona interns are excited to attend the three-day summit.

Contact Us!

Green Campus Interns:

Crystal Huang: crystalhuang3@gmail.com Grace Jaen: graceajaen@gmail.com Sony Bui: sonyybui@gmail.com

Green Campus General Inquiries:

greencampus.cpp@gmail.com

www.GreenCampusCPP.org