

Green Pastures

CAL POLY POMONA

Green Campus Summit 2012
Energy Efficiency at UC Berkeley



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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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Live in the Dorms?

Here are few tips to save energy for the CCN Competition! Or, just anywhere...

- Turn off the lights when leaving the room
- Take shorter showers
- Turn the refrigerator down
- Turn power strips off
- Use cold water for laundry
- Turn off the faucet when brushing teeth

On the Cover

Overlooking the Marina at Berkeley

Right

All Green Campus interns gather at UC Berkeley for a group picture at the 2012 Energy Efficiency Summit



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ALLIANCE TO
SAVE ENERGY

Creating an Energy-Efficient World



Pacific Gas and
Electric Company



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.

Engage our Energy Future a Huge Success!

By Grace Jaen

January 24th finally arrived, as the Engage Our Energy Future was underway, with all the teams, including Southern California Edison, Green Campus Program and the Green Team, setting up bright and early at 8am for this wonderful event. Not even the rain could slow us down. Students arrived 10am sharp to learn about energy efficiency and the amazing programs Southern California Edison has to offer students, and I'm sure the free pizza didn't hurt. Roughly 200 people were in attendance, which was more than we anticipated. Apparently our marketing efforts really paid off! A group of elementary school kids visit even attended and were so enthusiastic about learning how to save energy in their homes and at school. Other students were motivated by the free hourly raffle to participate in the scavenger hunt where they would go from person to person learning about different ways to save energy. One freshman student recounted, "I actually learned a lot from the scavenger hunt about that different aspects of my house that might be wasting lots of energy and how I can fix it to save myself some money." And educating students about energy efficiency and how to save them money was our main goal during the event. So with Engage Our Energy Future a successful outreach event for students and faculty, it seems only logical that Green Campus Program will work with Southern California Edison in the near future, continuing to teach others about the importance of water efficiency and how everyone can help make a difference.



Photos above: Representatives from SoCal Edison visited Cal Poly Pomona to promote efficient energy use in homes.



Photo above: A Walking Globe from SoCal Edison promoting the Engage our Energy Future Event

Promoting the SCE Event

By Sony Bui

Did you catch a glimpse of the giant walking globe on campus by any chance? If so, then you're probably wondering what was happening at that time. Well, on January 18th, with the help of the giant walking globe, the Green Campus Team managed to help spread the words on campus about the upcoming SCE Event. A large number of flyers were also distributed to students in order to help promote the event further and in turn increase the amount of participants. Students who were interested in participating were asked to bring back the flyers on the day of the event for free gifts and foods. By the end of the day, the team managed to pass out all the flyers and at the same time built awareness of the Green Campus to students.



*Photo Right: Cal Poly Pomona's Green Campus Program interns and campus lead Danielle Lauber at the Summit
Left: Alliance to Save Energy associates welcome Green Campus interns to Berkeley*



Energy Efficiency Summit 2012

By Sony Bui

It is that time of year again; it is time for the Energy Efficiency Summit! On January 28th, Green Campus' interns from sixteen different colleges in California are gathered together at UC Berkeley to participate the energy conference. Every year, the Green Campus Program holds an annual three-day meeting in order to look back at last year's accomplishments and at the same time prepares interns for the upcoming year. During the summit, interns of different academic or professional pursuit will be provided with valuable opportunities to interact with faculties, stakeholders and other interns to tackle some of the energy problems of today. From breakout sessions to career panels, interns will partake on multiple activities provided at the summit in order to enhance their experience in the energy field.

This year's summit theme is "Fueling the Future", which focuses on the concern of climate change. As it is known, climate change was not created overnight, and therefore it cannot be solved overnight. However, by educating the future generation and building awareness to the public, the solution to climate change can be found. With this in mind, interns are encouraged to take advantage of this conference to help fuel the future with projects that can help reach out into the public and at the same time ignite the green interests in the younger generation that will come to follow.

Overall, summit was a time to introduce new faces to everyone. But this year however, we will not be introducing just new faces, but rather new campuses! It has been announced from the Tennessee Valley Green Campus Network that six different colleges will be joining the Green Campus Program. From the University of Alabama in Huntsville to the University of Memphis, these campuses will be joining the Green Campus Program in California in fueling a sustainable future. Although the interns from these colleges did not participate in this year's summit, there is a chance that we might be seeing them in future summits!

Spotlight: Summit Sessions

By Crystal Huang

The Energy Efficiency Summit was a packed event. There were breakout training sessions, hands-on technology stations, an intern poster session, and even a talent show! Here are a couple of my favorites:



Photo Above: Former Green Campus Interns on the Alumni Panel

Green Campus Alumni Panel: Transition from GC to the Green Workforce

A representative from Lucid Design Group Inc., Levi Strauss & Co., Energy Solutions, and Integral group made up the panel of former Green Campus interns in the green workforce. With similar background training such as their audience, the panel discussed their respective fields and how Green Campus guided them towards energy efficiency related careers. Furthermore, the panel also commented on the skills they learned as interns, such as team management, and how the experience helped them land the job. With the emphasis that Green Campus places on future workforce in efficiency, all former and current interns are able to get a glimpse of the possibilities of energy fields.

Fundamentals of HVAC: A Look into a Building's Lungs

Over 20% of California's electricity use in the commercial sector is dedicated to powering HVAC systems. HVAC or Heating, Ventilation, Air Conditioning is a fundamental piece in a building, essentially its "lungs". This technology session introduced the interns to HVAC basics, the parts that make up the system, and how it functions. Led by Jim Kelsey, founding principal of kW engineering and a HVAC expert, the session went thoroughly through its terminology, importance, and energy efficiency opportunities.



Photo Above: Jim Kelsey presenting the fundamentals of the HVAC system

GCP Interns meet again...

Green Campus Interns meet twice a year to share project ideas, attend the aforementioned training sessions, and simply to have fun learning about efficiency! The next summit will be in the summer where interns will meet again. More specifically, the California Higher Education Sustainability Conference which will be in UC Davis this year.



Looking Forward to Campus Conservation Nationals 2012!

By Crystal Huang

Once again, the residence halls are in competition to see who can reduce their energy and water use the most in three weeks! Energy and water meters are read by Green Campus interns once every week to quantify savings from the competition. Participating halls include Aliso, Alamitos, Encinitas, Montecito, Palmitas, and Cedritos. Among the few behavioral changes to keep in mind, residents should remember to turn off their lights, try to take shorter showers, and use power strips for a winning hall ice cream party! On a larger scale, this competition is hosted by CCN (Campus Conservation Nationals) and the residence halls will be competing against over 150 schools nationwide. Not to worry, last year Cal Poly Pomona was awarded 1st place out of all California participants out of the competition with a total savings of roughly 10,700kWh. Hoping to surpass our success last year, let's turn off our lights and compete to reduce!

To learn more about CCN: <http://www.competetoreduce.org/>

How much are we saving? Check out CPP's dashboard: <http://www.buildingdashboard.net/csupomona/>



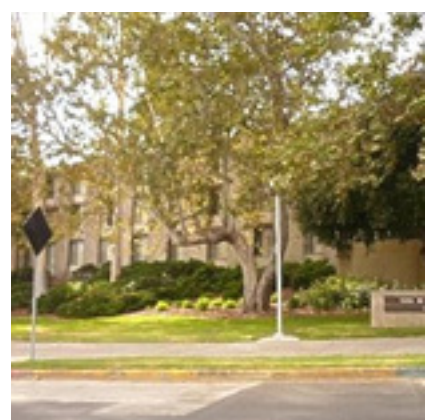
Alamitos Hall

160 kWh
3 CCF



Aliso Hall

160 kWh
384 CCF



Cedritos Hall

- kWh
7 CCF



Encinitas Hall

160 kWh
3 CCF



Montecito Hall

- kWh
498 CCF



Palmitas Hall

800 kWh
- CCF

Competition Week 1 Savings

Energy & Water

*NOTES: *1 CCF is equivalent to 748 gallons of water*



Photo above: An Aquacue system in use. A few of this technology is also installed around the Cal Poly Pomona campus.

New Technology On Campus: Aquacue

By Grace Jaen

As interns of the Green Campus Program, we aren't only interested in energy conservation, we are also dedicated to reducing water waste. We want to engage the community and campus in this goal as well, and the installation of Aquacue monitors, called Barnacles, helps us accomplish this. Aquacue was founded in 2009 by a group of engineers from Silicon Valley who are concerned about the water issues surrounding our planet and are developing innovative products and services to empower people to help resolve the world's water crisis. And today they are helping us do just that, minimize our water waste here on campus, while educating us on how much water we use, waste and could be saving. Aquacue Barnacles are placed over the standard water meters and within seconds transform them into "smart" meters. They provide real-time reporting of water usage, which helps eliminate excess consumption and detect leaks in the pipes, not to mention reduces expenses. Aquacue has already helped the Green Campus Program install 23 monitors around campus, including near all the first year dormitories. Barnacles were placed specifically around the dorms in order to implement Aquacue's water competition, a fun and educational way to increase awareness and save water. Other UC and State campuses throughout California like UC Merced have already participated in these water saving competitions. Within the span of one month, UC Merced students were able to save just under 90,000 gallons of water with the help of the Barnacles. And with the continued installation of Aquacue Barnacles, Cal Poly Pomona can do the same.

Contact Us!

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