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Best Practices - Sustainability Innovation

# **Sustainability Mentor Program**

Cal Poly State University, San Luis Obispo

Presented to the California Higher Ed Sustainability Conference

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### Cal Poly at a glance:

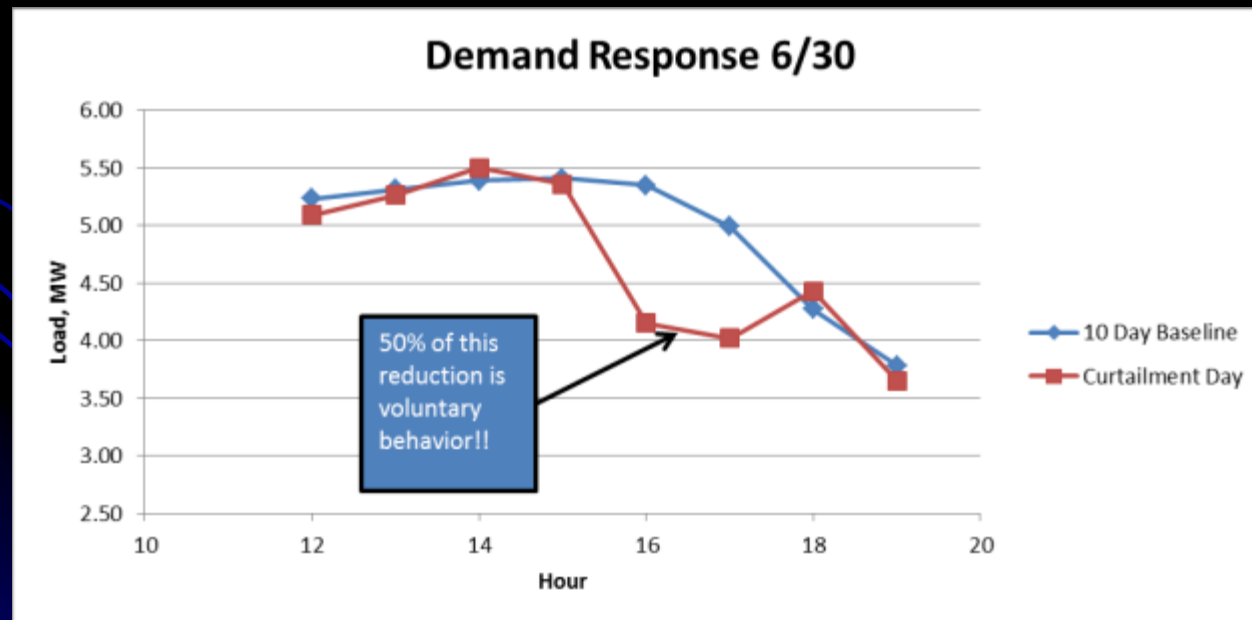
- Founded 1901
- Over 300 Buildings
- 5.8M gsf
- 19,000 Students
- 6,700 Residents
- 2,200 Faculty & Staff
- 10,000 acres
- "Learn by Doing"



### Background:

#### Summer Electrical Demand Response:

- Automated load shed of non-critical HVAC through EMS
- Request for voluntary conservation by building occupants via email
- Test of notification system found that behavior change reduced load by an amount equivalent to that of our HVAC reductions!





### Background:

#### AFD Professional Training Series

- Leadership and Management
- Communication
- Customer Service
- Team Building
- Time Management
- Motivation
- Final Team Projects
  - Quality Service
  - AFD Principles
  - Diversity
  - ***Sustainability***



### Background:

#### Green Campus Program

- Founded 2006
- Successful at Student Outreach
- Dorm Energy Competitions
- Involvement in Open House, SOAR, WOW, Fall Launch, Job Fairs
- Challenge: How to reach faculty and staff?

Green Campus Workplace  
Certification Program!



## Green Campus Certified

- Modeled after LEED
- Point based system - 55 points available - 18 prereqs, 37 optional
- Categories:
  - Administration
  - Energy Conservation
  - Water Conservation
  - Recycling & Waste Reduction
  - Purchasing
  - Transportation
  - *Innovation*
- Levels: Certified, Silver, Gold, or Platinum



## Sustainability Mentor Program "Green Campus Certified" Certification Checklist Updated October 3, 2011

The following document describes the Cal Poly Green Campus Certification program for workplaces. This program is intended to provide a framework and guidance for individual offices, departments, buildings, divisions, or colleges to implement and reinforce sustainable practices in day to day operations and planning. The certification program addresses the areas of:

- Administration
- Energy Conservation
- Water Conservation
- Recycling and Waste Reduction
- Purchasing
- Transportation

Certification is voluntary, and is accomplished by implementing and documenting sustainability initiatives in the areas described. Items identified as prerequisites are required for all certification submissions, and all other points are optional. Submissions will be evaluated by the Green Campus Program and Facility Services. Certification will be awarded based on the number of points achieved, and will be recognized with a framed certificate and announcements in:

- The Cal Poly Sustainability website [www.sustainability.calpoly.edu](http://www.sustainability.calpoly.edu)
- The Green Campus Program website [www.greencampus.calpoly.edu](http://www.greencampus.calpoly.edu)
- The Green Campus Program monthly newsletter, and
- The Cal Poly Report.

Departments wishing to start the certification process should send a request via email to [greencampus@calpoly.edu](mailto:greencampus@calpoly.edu), and identify the contact person within their department. The Green Campus team manager will respond and arrange an initial meeting to explain the certification process and help the department get started. There are a total of 55 points possible, of which 18 are prerequisites, and 37 are optional. The levels of certification are:

Green Campus Certified:	30 points
Green Campus Certified - Silver:	35 points
Green Campus Certified - Gold:	40 points (Including minimum 1 Innovation Point)
Green Campus Certified - Platinum:	45 points (Including minimum 2 Innovation Points)

### Certification Process

- Establish department contact person  
“Sustainability Mentor” – role:
  - Coordinator, champion, cheerleader
  - Disseminate information
  - Recognize and reinforce
- Interns perform audit
- Implement measures – some funded by department, some by Facilities
- Write final report including employee training manual, written policies and procedures
- Quantify savings and certify






### Certification Point Highlights:

- Prereq A1: All Space Scheduling in Resource 25
- Prereq E2/E3: Power management for PC's and copiers/printers
- E9: Eliminate CRT's
- E8/E11/E12: Eliminate personal heaters, fans, mini-fridges, printers
- E15: LED task lighting
- W3: Take Back the Tap pledge – 50%
- Prereq R1-R3: Proper recycling, bins, and signage
- R5: Default 2-sided printing
- Prereq P1/P3: Energy Star appliances (new purchase vs. replacement)
- T1/T2: Web conferencing and telecommuting
- T3-T5: Alternative Transportation Pledge (25/50/75%)
- T6-T9: Alt fuel fleet vehicles (25/50/75%) or eliminate vehicles
- I1-I5: Innovation points – min 1 for Gold, 2 for Platinum

### Certification Highlights:

- Biggest Savers:
  - Lighting retrofits
  - Paper reductions, default 2-sided printing, going “paperless”
  - “Light switch fairy”
- Innovation ideas:
  - Sustainable employee recognition
  - Junk mail (3<sup>rd</sup> Class mail) elimination
- Lessons Learned:
  - Monthly meetings for discussion and collaboration helped
  - Making point system broad and flexible helped – departments can choose what fits their needs and resources
  - Keep it fun and positive – recognize and celebrate!
  - Having a motivated Sustainability Mentor is critical

## Certification Results in AFD:

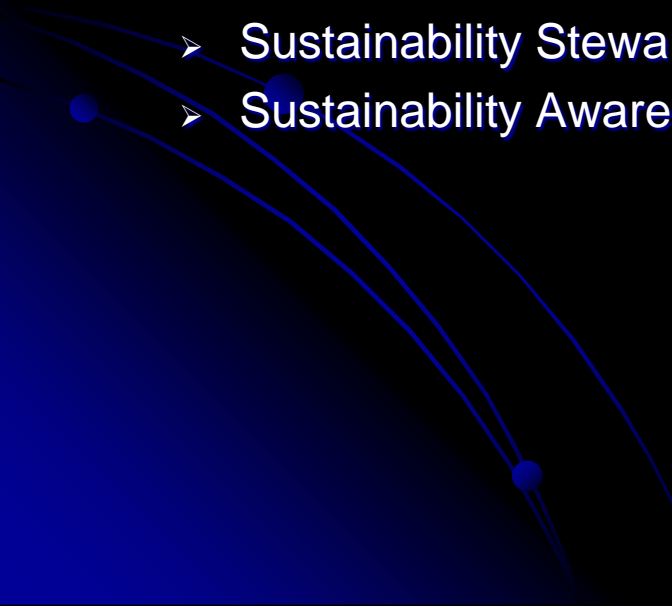
- VP Directed all 11 departments in AFD to certify
  - All 11 departments achieved Platinum
  - Total Annual Savings:
    - 168,000 kWh of electricity
    - 84,000 lb CO2 emissions
    - 880,000 sheets of paper
    - \$103,000 total savings
- 



### Going Forward:

- Academic Senate passed resolution AS-734-11 endorsing Green Campus Certified, and recommending implementation by Academic Departments
- Pilot audits under way in Ag Business and Landscape Architecture

### Spinoffs:

- EPP – Environmentally Preferred Product Catalog
  - Sustainability Stewards Program in CAFES
  - Sustainability Awareness Months
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[delliot@calpoly.edu](mailto:delliot@calpoly.edu)  
[www.sustainability.calpoly.edu](http://www.sustainability.calpoly.edu)  
[www.greencampus.calpoly.edu](http://www.greencampus.calpoly.edu)

Green Campus Certified Program and checklist:  
<http://www.afd.calpoly.edu/greencampus/certification.asp>

Senate Resolution on Green Campus Certified:  
<http://digitalcommons.calpoly.edu/senateresolutions/735/>

Sustainable Products Presentation from Pilot/Office Max:  
<http://www.afd.calpoly.edu/cprm/forms/Open%20Forum%20Pilot%20BeGreen%20Cal%20Poly%20SLO.pptx>

CAFES Sustainable Stewards Program:  
<http://cfs.calpoly.edu/programs/stewards.html>

# QUESTIONS??

**This concludes The American Institute of Architects  
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