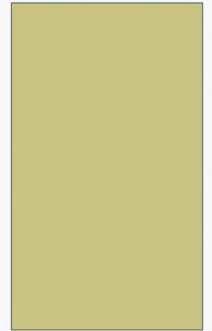


IMPLEMENTATION OF THE GREEN LABS CHECKLIST: MEASURING SYSTEM-WIDE SUCCESS

ARRIANA RABAGO AND LILY URMANN

California Higher Education Sustainability Conference
July 22nd, 2015

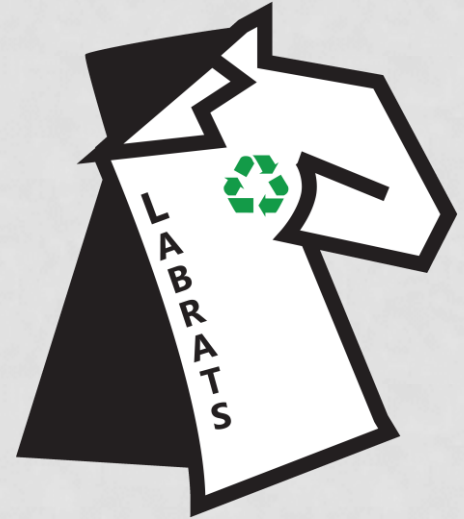


LAB SUSTAINABILITY CERTIFICATION: THE GREAT DEBATE

- Lab sustainability certification programs are being incorporated statewide as a tool to bring efficiency to labs
- Which program is most effective? And should there be one standard across all universities?

UCSB: LAB SUSTAINABILITY IN PROGRESS

- LabRATS re-launched its 2005 lab sustainability program in 2014 - LabSYNC
- Incorporates statewide MyGreen labs checklist



LABSYNC: HOW DOES IT WORK?

1. Walkthrough lab and use interview/verbal observation to document practices. Use energy metering equipment to document real-time equipment/lighting use
2. Record practices in comprehensive and to-scale excel sheet to provide lab with ranking
3. Prepare materials with pertinent info to assist lab with making changes
4. Send out initial report and work with participant to improve practices

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BENEFITS

- Obtain extremely thorough documentation of in-lab practices
- Establish one-on-one relationships with specific laboratories
- Energy metering provides data for use in future years

UCSC: SUSTAINABILITY OFFICE GREENLABS PROGRAM



Goals-

1. ENERGY EFFICIENCY: Lab buildings make up 47.4% of total electricity on campus
2. WASTE REDUCTION: Lab Operations produce 12% of landfill-bound waste from campus
3. GREEN PROCUREMENT □ Laboratories are the single largest purchaser from CruzBuy

GREEN LAB SUCCESS AND MOVEMENT

Labs and offices on campus will be a crucial component to success in the UC goal of carbon neutrality by 2025.

How can we increase efficiency in certification while also supporting researchers and maintaining strong leadership?

→ What model for certification is best?

STAKEHOLDERS



- Environmental Health and Safety
- MyGreenLab
- UCSC Sustainability Office



Sustainability
Office

UNIVERSITY OF CALIFORNIA
SANTA CRUZ

ADDING INCENTIVE

The GreenLabs program was awarded a \$13,000 Equipment Retrofit grant from the Carbon Fund in January 2015.

This fund will allow **certified labs** to upgrade or purchase new energy-efficient equipment.



UNIVERSITY OF CALIFORNIA, SANTA CRUZ

CARBON FUND

SUPPORTING CARBON NEUTRALITY BY 2025

ASSESSMENT & CERTIFICATION

Simple Certification:

Phase 1: [Online Self-Assessment](#) (MyGreenLab)

Less than 20 minutes → Expedited Walkthrough

Phase 2: Walk-through Evaluation with student team

Less than 60 minutes in Lab



Platinum (Pt): Achieved by labs with continuous sustainability practices and maintenance of certification through re-assessment.



Silver (Ag): Average application of environmental consciousness in the lab.



Gold (Au): Incorporating a sufficient amount of sustainable practices in the lab with goals of improvement.



Copper (Cu): Minimal sustainable applications, more integration needed.

ADDING INCENTIVE AND INCREASING ENGAGEMENT

From an interview with **UCSC's first platinum-certified lab:**

“-How do you communicate sustainable practices in your lab?”

-It's more about how we practice doing things in our lab- we like to recycle, and in general we like to do things that make sense. It all fell in line with being green and sustainable... everything adds up and has an impact” (Mascharak)”