CAMPUS SUSTAINABILITY PLAN

This Annual Sustainability Progress Report reflects the last year of reporting progress on the 2010-13 Campus Sustainability Plan. This does not mark an end, but rather a beginning and an opportunity for reflection.

For each topic area we have made progress and often achieved many of the goals established in the 2010-13 Sustainability Plan. We are tracking academic courses and engaging more community members than we ever have before. Our campus energy is coming from more renewable sources than it did three years ago, and we launched a pilot zero waste collection model at the McHenry Library.

We continue to build on the achievements made . . . committed to progress and bound by the responsibility we have to our campus environment, the people who live and work here, and the world we all share.

Next year our Campus Sustainability Plan will be updated and we will refresh our goals—steadily and energetically pursuing and creating a more sustainable campus.
Highlights

**Awareness, Education, and Engagement**
Created UCSC’s first living lab map which identifies places where students, staff, and faculty can go to learn about and practice sustainability on campus.

**Buildings**
The campus was awarded 15 LEED New Construction Master Site Points under topics including Sustainable Sites, Water Efficiency, Energy and Atmosphere, and Indoor Air Quality.

**Energy**
The Energy Department implemented several dozen energy efficiency projects this year, saving the campus over 1.8M kWh/yr and 175K therms.

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2013-16 Campus Sustainability Plan. Our progress.

<table>
<thead>
<tr>
<th>Achieved</th>
<th>Progressing</th>
<th>We can do better</th>
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</thead>
<tbody>
<tr>
<td>Document and promote sustainability learning opportunities via curricular and cocurricular opportunities and through campus communications.</td>
<td>Integrate sustainability into campus tours and orientation activities.</td>
<td>Develop a strategic communications plan to publicize campus sustainability opportunities and progress.</td>
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<tr>
<td>Develop a web tool to show live sustainability data.</td>
<td>Provide assistance to develop internship positions for sustainability working groups.</td>
<td>Develop and promote educational videos for CSP topic areas.</td>
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<tr>
<td>Engage faculty to identify and implement strategies to support sustainability research and teaching.</td>
<td>Utilize the campus as a living laboratory in order to link the operational and academic aspects of the university.</td>
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<tr>
<td>Use the Living Lab Map of places to learn about and practice sustainability.</td>
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**Buildings and Facilities**

**Energy and Greenhouse Gases**

Produce electricity for UCSC that has a Renewable Portfolio Standard (RPS) 15% higher than state required minimum (25%) by 2016.

Create consortium focused on energy research with specific goal of reducing energy use and GHG emissions through application of existing technologies.

Actively pursue funding opportunities to support four intern positions within staff departments to help accomplish energy initiatives by 2016.

Develop strategic energy plan for 2015-20 that reduces campus energy use by at least 15%.

Procure biogas that reduces the annual campus stationary combustion emissions to less than or equal to 20,000 metric tons by 2015.

Develop and begin implementation of a prescribed curriculum for sustainability education; energy-focused behavior change program, including development of educational videos, to support the execution of the 2013 Climate Action Plan.

Establish Green Revolving Loan Fund of at least $250,000 by Fall 2013, with first applications received in Winter 2014.

Actively pursue funding opportunities to hire at least one full time dedicated staff to work on energy efficiency in auxiliary units by 2015.

Identify permanent funding source to continue to employ staff currently funded by the Strategic Energy Partnership (SEP) by 2015.
### Land, Habitat, Watershed

The UCSC Campus Natural Reserve Academic Plan acts a road map for providing a diverse set of field experiences for students and strategies for getting courses into the outdoor classrooms that our campus natural lands provide.

### Water

UCSC achieved an average 26% reduction in peak season water usage from 2012 and 2013 baselines as part of the campus’s response to severe drought conditions.

### Transportation

UCSC installed six new electric vehicle (EV) charging stations on campus. Utilization and demand continues to grow serving 133 unique EV drivers in the past year and providing 8.75 MWh of energy.

### Highlights

#### Achieved

- Develop and begin implementing an academic plan centered on increasing the use of campus natural lands for education, research, and outreach.
- Increase water use efficiency by 5% through: 1) detecting leaks; 2) replacing old meters; and 3) installing meters where necessary.
- Develop and maintain a Water Action Plan that identifies the campus’s long-term strategies for achieving sustainable water systems.
- UCSC achieved an average 26% reduction in peak season water usage from 2012 and 2013 baselines as part of the campus’s response to severe drought conditions.
- UCSC installed six new electric vehicle (EV) charging stations on campus. Utilization and demand continues to grow serving 133 unique EV drivers in the past year and providing 8.75 MWh of energy.

#### Progressing

- Support >150 student interns and >500 volunteers actively engaged with stewardship, ecological research, and environmental education projects on the main campus each year. Engage >500 students in >35 formal undergraduate courses annually in educational, research, and/or stewardship activities on campus natural lands.
- Assess and create tracking systems for campus natural land use to set a baseline of current use.
- Actively pursue funding opportunities for permanent staff and operational resources to implement critical stewardship programs and initiatives that: 1) support instruction and research; 2) support environmental compliance and protect sensitive species and habitats; and 3) enhance community safety and responsible enjoyment of campus natural areas.
- Create and implement a Landscape Management Plan for UCSC’s main campus that includes a Fire and Vegetation Management Plan (FVMP) and Invasive Species Management Plan (ISMP). These plans will implement effective habitat and sensitive species management and restoration and establish priorities for specific projects.

#### We can do better

- Initiate three pilot projects that explore and examine non-potable supply options by 2016.
- Decrease weighted campus user demand by 5–10%.
- Develop a system to provide timely data and feedback on water use to the on- and off-campus community.
- Incorporate water education into residential programs for new students.
- Create and implement a Landscape Management Plan for UCSC’s main campus that includes a Fire and Vegetation Management Plan (FVMP) and Invasive Species Management Plan (ISMP). These plans will implement effective habitat and sensitive species management and restoration and establish priorities for specific projects.

- Conduct research and pilot-test development of an alternate funding model based on transportation-related GHG emissions, parking, and transportation costs.
Procurement

Increased use of 100% post-consumer waste recycled content paper by 122% and reduced overall paper use by 33% since fiscal year 2013.

Ensure Environmentally Preferable Product (EPP) training is part of CruzBuy training and that responsibility for doing so is a stated performance objective for the CruzBuy help desk.

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Use the Staff Human Resources Learning Management System platform to share EPP information.

Create tracking systems for all material streams and establish a centralized location for waste reduction data.

Create a centralized and comprehensive website link that clearly communicates recycling, composting, and waste disposal resources and locations across campus.

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Develop formalized procedures for supporting, promoting, and tracking zero waste events modeled on existing Catering Services practices.

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Increase efficiency of current recycling, compost, and other resource recovery initiatives through the creation of a material processing facility on campus.

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Explore opportunities to expand the current Dining Services compost collection infrastructure to serve a greater portion of the campus, including reporting on the viability of creating an on-campus or local composting facility.

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Evaluate the current fee structure and identify sustainable sources of funding to increase staff capacity for waste reduction education and material management.

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Develop waste reduction training for campus staff utilizing the campus’s online learning management system.

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Explore the viability of creating a location on campus where items can be traded and re-used among students, faculty, and staff across campus.

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Waste Reduction

Identified and funded space for the development of a campus recycle yard, including the potential for an on-site composting facility.

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Develop and complete effective tracking mechanism for “Real Food” procurement by Fall 2013 for UCSC Dining Services.

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Have at least two contract service vendors green business certified by Fall 2015.

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Increase undergraduate student hands-on involvement at the farm and campus garden sites.

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Host 20 food agriculture educational events for students per year.

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Food

UCSC Dining and food systems efforts succeeded in developing an annual staff and student food procurement assessment process for all campus food sites, and collaborated on over thirty annual events engaging the campus community on food, agriculture, and social justice.

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Increase and sustain 35% “Real Food” purchases by 2016 across UCSC Dining Services.

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Bring all contracted food locations to 20% “Real Food” by 2016.

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Develop residential waste diversion and composting education modules for all colleges by 2016.

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Implement a pilot Lean Path training strategy in at least one dining hall by January 2014.

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Establish an agro-ecology and food justice orientation program for new and transfer students by Fall 2015.

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Establish and sustain experiential learning sites co-managed by students throughout the calendar year at all colleges by Fall 2016.

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Reduce overall food waste and composting tonnage by 10% of 2012 levels by 2016.

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Campus Sustainability Plan continued

Achieved

Procurement

Identify competitive pricing for 100% post-consumer waste 8.5x11 white multi-purpose printing and copy paper to provide an incentive for increased campuswide use.

Increase products flagged as EPP in CruzBuy by 5% from 2012 figure by end of FY 2016.

Create and implement a life-cycle cost analysis tool for campus buyers by end of FY 2016.

Incorporate metrics that capture suppliers’ progress toward more sustainable business practices and operations.

Ensure Environmentally Preferable Product (EPP) training is part of CruzBuy training and that responsibility for doing so is a stated performance objective for the CruzBuy help desk.

Increase EPP office supply purchases by 150% from 2012 figures by end of FY 2015.

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Campus Sustainability Plan continued

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We can do better

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not only transforming infrastructure, operations, and policies,
 improving campuswide environmental performance means
aWaREnEss, EDuCatiOn, EnGaGEmEnt
living laboratory Opportunities
(CAsFs) utilize uCsC as a living laboratory.
Research and teaching facility committed
to plant conservation that serves
both the campus and the public. Its
rich and diverse collection, containing
representatives of more than 300 plant
families, provides beginning students
with a broad survey of the plant king-
dom. Facilities for growing plants offer
students and research faculty oppor-
tunities to experiment with living plants
and their ecosystems.
CAMPUS NATURAL RESERVE
Provides outdoor classrooms and liv-
ing laboratories for students and faculty
across academic disciplines. The Reserve
sponsors internships and volunteer op-
opportunities in environmental education,
ecology, and stewardship, and provides
teaching and logistical support for under-
graduate courses to connect their class-
room learning with hands-on examples
of course concepts in the field.
CENTER FOR AGROECOLOGY
AND SUSTAINABLE FOOD SYSTEMS
(CASFS)
Research, education, and public service
program dedicated to increasing ecoLOGi-
cal sustainability and social justice in
the food and agriculture system. CASFS
operates the two-acre Alan Chadwick
Garden and the 26-acre Farm. Both sites
are managed using organic production
methods and serve as research, teach-
ing, and training facilities for students,
staff, and faculty.
CURRICULUM
In 2013-14 UCSC offered 351 courses
that were focused on or related to sustainability. The Sustainability Minor
through College Eight was approved
and will begin in fall 2014. Sample
Courses: EEB80J—Focus on Renewable Energy Systems. Lecture
and lab series where students explore
different sources and renewable energy
technologies. College Eight two-unit
tutorial-Food, Water and Energy top-
ics. For a complete list of sustainability
courses visit sustainability.ucsc.edu.
EDUCATION FOR SUSTAINABLE LIVING
PROGRAM (ESLP)
Collaborative and interdisciplinary
student-led effort to reshape the way
students learn and engage them in
projects that support sustainability on
campus. ESLP supports student-led
two and five-unit sections, guest speak-
ers and inspires participants to internalize
the concept of sustainability within
academia and greater society.
FRIENDS OF THE COMMUNITY
AGROECOLOGY NETWORK (FOCAN)
Student-initiated, student-led commu-
nity on campus that supports CAN’s
mission of promoting rural livelihoods
and sustainable food systems through
action education and participatory action
research.
GREEN OFFICE CERTIFICATION
PROGRAM
Educates and encourages faculty and
staff to work toward a more sustainable
campus by providing them with a
framework for implementing waste
reduction and conservation practices
in their workplace.
IMPACT DESIGNS: ENGINEERING
AND SUSTAINABILITY THROUGH
STUDENT SERVICE (IDEASS)
Interdisciplinary five-unit upper division
capstone course open to students
from all majors but with emphasis
on building relationships between social
science (especially Environmental
Studies) and Engineering. Students plan,
implement, and evaluate “green-tech”
community based (mainly off campus)
service-learning projects.
INSTRUCTIONAL GREENHOUSES
The facility is funded by the Division of
Physical and Biological Sciences and the
Division of Social Sciences and serves
all students in the campus community.
Designed for student use, the facility
includes five greenhouses, two large
outdoor classrooms, and a lab holding
a collection of over 700 species of
diverse plants from around the world.
COLLEGE 8, KRESGE AND
STEVENSON COLLEGE GARDENS
College-based gardens provide oppor-
tunities for students to share skills and
develop gardening experience through
gardening work days, internships,
and educational workshops.
LIFE LAB GARDEN CLASSROOM
Farm and garden-based education that
promotes experiential learning for all
ages through children’s camps, field
trips, youth and internship programs,
and teacher workshops. They have also
created curricula and workshops for
educators interested in bringing learning
to life in gardens nationwide.
MUSEUM OF NATURAL HISTORY
Houses collections of plants, fungi,
lichens, marine algae, insects, fish,
amphibians, reptiles, birds, mammals,
and skeletons for research and teaching
purposes. The museum is actively cata-
logging and expanding its collections and
is involved in multiple internships.

AWARENESS, EDUCATION, ENGAGEMENT
Improving campuswide environmental performance means
not only transforming infrastructure, operations, and policies,
but also expanding knowledge and changing behavior. This
section characterizes opportunities to learn about and engage
in sustainability through classes, research, and co-curricular
opportunities.
how the activities of living plant roots break down organic matter in soil to better understand the release rate of carbon dioxide, which has implications for climate change.

SIERRA INSTITUTE
Introduces students to outdoor experiences as a venue for learning about the environment. It is a for-credit outdoor learning program that provides students fifteen units per academic quarter of learning, traveling, and outdoor activities.

SUSTAINABLE LIVING CENTER (SLC)
The Sustainable Living Center is a model action education center at UCSC where students apply classroom knowledge in real settings, gain hands-on experience in sustainable technologies and community food systems, and prepare for becoming environmental educators and leaders.

ZERO WASTE PROGRAMS
Campus-wide collaborate waste-reduction initiatives strive to improve campus waste diversion. Highlights include efforts by Grounds Services and the student-led Zero Waste Team to increase zero waste events across campus, the installation of electronic monitoring systems to track dumpster fill rates, and the Chancellor’s Sustainability Challenge to Reduce Waste, a campus-wide educational and behavior change campaign.

Student Fee Measures and Initiatives

STUDENT FEE MEASURE 24: TRANSPORTATION
The Student Transit Fee originated in 1972 to fund unlimited “fare-free” ridership by UCSC students on the Santa Cruz Metropolitan Transit District (SCMTD) buses operating within Santa Cruz County. In 1988 use of the fee was extended to include Campus Transit operations. In 2013-14, the fee generated $5.93 million in revenue, which funded the transport of 2.32 million UCSC student riders on SCMTD and another 2.21 million passengers on Day, Night, and Night Owl buses operated by TAPS Campus Transit. In 2013-14 SCMTD ridership (and billings) dropped by 0.14% while Campus Transit ridership dropped by 8.8% during this time.

STUDENT FEE MEASURE 43: FOOD, HEALTH AND WELLNESS
Provides funding for programming and educational support related to sustainable food, health, and wellness initiatives, for on-campus and off-campus undergraduate students. In 2013-14 the fee generated $106,000, which support the annual Campus Food & Garden Guide publication, five large annual events serving over 4,000 students, eight quarterly events serving 400 students, two regular year-round dining partnership promotion programs (Meatless Mondays and Farm Fridays) serving between 600-1,000 students weekly, six classes serving over 600 students, as well as additional faculty, staff, and student partnership programs funded.

STUDENT FEE MEASURE 44: CARBON FUND
In 2010, UCSC students voted, in record numbers, to pass Measure 44, creating UCSC’s Carbon Fund to provide funding for projects that reduce greenhouse gas emissions. During the 2013-2014 academic year the Carbon Fund received an allocation of $114,752. A total of $144,818.40 was allocated to 24 projects in the 2013-2014 funding cycle.

STUDENT FEE MEASURE 45: SUSTAINABILITY INTERNSHIPS PROGRAMS
Provides funding ($2.75/student/quarter) for the Sustainability Office to hire student interns and fund collaborative projects outlined in the Campus Sustainability Plan. In 2013-14 the measure generated roughly $85,000, which supported one staff position, 37 student internships, and provided professional development and relationship-building opportunities to 137 students working on sustainability issues, through the annual Sustainability-Inter-Organizational Retreat.

CAMPUS SUSTAINABILITY COUNCIL
Provides funding to registered UCSC student organizations for programs and events that create, implement, and monitor environmentally sound practices on campus as established through the protocol outlined in the Blueprint for a Sustainable Campus. In winter 2013, CSC funded projects in seven organizations for a total of $36,000.

BLUEPRINT FOR A SUSTAINABLE CAMPUS
The Blueprint for a Sustainable Campus is a multi-use, living document that strives to encompass the current visions of students, faculty, staff, and community members that have come together to share their ideas and goals for the future of UCSC at the annual Campus Earth Summit event. This document is meant to serve as a launching point for students to create meaningful, collaborative projects on campus that inspire lasting change.

REAL FOOD CHALLENGE
Commits UCSC to meet or exceed 40% of real food purchases in dining services by 2020. Currently UCSC has exceeded 20% by 2020, as mandated by the UCOP Sustainability Practices Policy and is operating at a 22% real food level.

Events

ANNUAL END-OF-YEAR SUSTAINABILITY CELEBRATION
Annual event where students, staff, and faculty across campus come together to celebrate accomplishments. The event includes a poster symposium of student and staff sustainability projects.

EARTH SUMMIT
A student-led event organized by the Student Environmental Center (SEC) that is the culmination of an annual planning process to develop the Blueprint for a Sustainable Campus document. It includes educational workshops, guest speakers, and information-sharing opportunities.

OPEX FALL FESTIVAL
The Office of Physical Education, Recreation and Sports kicks off the school year with the annual Fall Festival, the campus’s largest zero waste event. 93% of waste was diverted from the landfill at the 2014 Fall Fest through composting, recycling, and waste reduction initiatives. The event included 6,000 campus community members, 225 organizations, and more than 4,400 meals served by Dining Services.

SUSTAINABILITY INTER-ORGANIZATIONAL RETREAT
The Sustainability Inter-Organizational Retreat brings students and staff together to foster a shared vision of sustainability, share best practices, learn through workshops, and develop collaborations to implement innovative solutions to environmental challenges on campus.
University of California systemwide sustainability goals.

In FY 2013–14, the amount of food purchased by UC Santa Cruz’s residential dining services that met one or more sustainable food criteria dropped slightly due to some contracting changes. The campus anticipates that the percentage will increase again in FY 2014–15. UCSC’s residential dining services continues to outperform the 2020 policy goal of 20% sustainable food purchases.

In FY 2013–14, UC Santa Cruz consumed 9,700 gallons of potable water per capita. This is a 31% reduction from its FY 2002–03 to FY 2004–05 baseline. The campus has outperformed the 2020 policy goal of reducing potable water consumption by 20% below the baseline.

Scopes 1-3 emissions are reported here. In 2013, Santa Cruz’ GHG emissions totaled 51,000 metric tons, a decrease in Scope 1 emissions by 24% and in Scope 3 emissions by 19%, while Scope 2 emissions increased 6% from 2012. Total emissions in 2013 were lower than 1990 levels and UCSC is on track to meet the 2014 and 2020 policy goals.

UC’s goal for achieving carbon neutrality by 2025 requires UCSC to reduce all of its Scope 1 and 2 emissions.
### Annual Sustainability Metrics for UC Santa Cruz

#### Data in Fiscal Years (unless otherwise noted)

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<td>Number of Faculty Engaged in Sustainability Research, by division:</td>
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<td>Division of Physical and Biological Sciences</td>
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<td>Division of Social Sciences</td>
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<td>Jack Baskin School of Engineering</td>
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<td>Division of the Arts</td>
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<td>Number of Sustainability-Related Courses, by division:</td>
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<td>Buildings &amp; Facilities</td>
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<tr>
<td>LEED Buildings (Outside Gross Square Footage)</td>
<td>281,308</td>
<td>316,942</td>
<td>430,729</td>
<td>528,593</td>
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</tr>
<tr>
<td>Total Campus Outside Gross Square Footage</td>
<td>3,951,523</td>
<td>5,693,505</td>
<td>5,792,245</td>
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<td>5,794,434</td>
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<td>84%</td>
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LOOKING FORWARD

The goals of the 2013–16 Campus Sustainability Plan maintain the areas we still need to work on, but build on what we have accomplished, pushing us to continue setting new limits and striving to always do better—for our campus and our world.