

Blueprint for a Sustainable Campus 2010



**Student Environmental Center
College Eight Commons, Room 2010
www.envirolug.org**

Executive Summary

2010 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 the UCSC at the Annual Campus Earth Summit event. The 2010 Blueprint for a Sustainable Campus is the ninth blueprint compiled by the Student Environmental Center. This document is meant to serve as a launching point for students to create meaningful, collaborative projects on campus that inspire lasting change. The Blueprint for a Sustainable Campus will also act as a guide for student organizations interested in receiving funding from the Campus Sustainability Council for the upcoming 2010-2011 school year. While the Blueprint for a Sustainable Campus reflects no commitments from the administration, the process through which the Blueprint has been compiled displays multiple points of collaboration throughout the campus and community. In light of the new Campus Sustainability Plan, the first eight sections of the Blueprint for a Sustainable Campus include supplemental visions and actions to further build upon the goals laid out by the administration in the plan. It is a distinct pleasure for the Student Environmental Center to present the collective visions of our campus and community members in the 2010 Blueprint for a Sustainable Campus. We thank you for reading and sharing in the evolution of the UC Santa Cruz sustainability movement.

Collective Vision for Campus Sustainability

Throughout the compiling of the Blueprint for a Sustainable Campus, it is clear that there is a single collective vision for sustainability at UC Santa Cruz. Within each topic group the common vein is the desire to have a mutually respectful relationship with the environment through sharing in educational experiences with one another.

Action Steps for Students

The items that are listed below were frequently mentioned throughout each of the different breakout group sections as visions & actions that could be taken by students. Please feel free to utilize these ideas, expand upon them, and mold them in whichever way the movement takes you.

- Increase educational opportunities for incoming students, particularly at orientation, welcome week, and through Res-Life. When students are exposed to sustainability at an early stage on campus they are more likely to continue to follow best practices.
- Explore the possibilities of integrating sustainability into the core-curriculum of each residential college.
- Build stronger campus and community relationships that are collaborative in nature and that strive to provide a foundation for the sustainability movement, as students are continually transitioning.
- Create an open space for all campus community members to discuss sustainability issues with the administration.
- Join a student organization that interests you and utilize that opportunity to learn and work in a field that you are passionate about.
- Check out www.envirolug.org for more information on how to get involved in campus sustainability!

Introduction

This spring the Student Environmental Center and College Eight hosted the 9th Annual Campus Earth Summit and Ode to the Globe on Friday, April 23rd, 2010. The event had a group of over 350 participants including students, faculty, staff, and community members. Each year the Annual Campus Earth Summit strives to bring together a wide variety of people to collectively vision for the future of sustainability on the UC Santa Cruz campus. This year featured ten breakout group discussions, all of which were facilitated by student leaders in sustainability. Eight of the ten breakout group discussions correlated with the Campus Sustainability Plan sections and provide valuable supplemental visions and actions on these subjects. All of the collaborative ideas, projects, plans, and visions are captured by the Blueprint for a Sustainable Campus and are meant to act as a starting point for anyone interested in the evolution of sustainability at UCSC. It is the hope of the Student Environmental Center that the Blueprint will inspire students to become active members of their campus community and join in the amazing learning experiences that the sustainability movement has to offer.

Funding for Student Projects

The Blueprint for a Sustainable Campus is meant to act as a guide for student organizations interested in receiving funding for sustainability projects and campaigns from the Campus Sustainability Council. While a wide range of project ideas and visions are mentioned in the breakout group sections, there are still a multitude of options that have not yet been explored. Student organizations that wish to further sustainable practices on the UC Santa Cruz campus are encouraged to review the "Visions & Actions" section of each breakout group topic for ideas and inspiration. The Campus Sustainability Council holds two funding rounds, one in winter and one in spring. Grant proposal trainings and workshops are offered in the weeks prior to a funding round so it is important to plan ahead. Please visit <http://www.enviroslug.org/csc> for more information.

Structure of the 2010 Blueprint for a Sustainable Campus

The 2010 Blueprint for a Sustainable Campus is a compilation of the notes taken from the ten breakout group sections at the 9th Annual Campus Earth Summit. The first eight of the ten topics correlate with the sections in the Campus Sustainability Plan and strive to further add to the visions and goals of the plan. The remaining two sections focus Social & Environmental Justice and Academics & Curriculum, both of which are of critical importance for the future of sustainability and the campus community. During each breakout group section, participants were asked, "What is exciting?" "What is challenging?" and "What are your visions for the future?" in regards to their topic of focus. The following sections have been compiled from the notes of each group in as clear and concise a method as possible.

Green Building & Facilities

History & Current Mandates:

- UC Policy on Sustainable Practices
- Ballot Measure 44: Addendum to Renewable Energy Credit Purchases
- All new construction must be LEED-Silver or equivalent

Current Interest in Green Building:

- Renewable Energy Center on the Wharf
- Dialogue around development and expansion

Challenges in Green Building:

- Recognizing the fragile ecosystem that our campus rests on – How can we integrate responsible design and practices into our construction and maintenance?
- What are the construction impacts on the general health of the community?
- Expanding campus to meet the demands of more incoming students – How can we balance the needs of the campus population with the environment?
- Involving students in the UC bureaucracy, decision-making process - How do we channel student concerns and passions in a cooperative and effective way?
- Meeting state and university regulations for building can be very time and capital intensive – How can we streamline these processes?

Visions & Actions for Green Building:

- Increase the amount of educational opportunities for students to conduct research on green building practices that can be implemented on campus
- Explore the possibilities for outside funding the complete renewable energy projects
- Promote responsible contract agreements which take sustainability measures into account
- When possible, utilize low-impact construction and avoid unnecessary building
- Expand the incentives to lower the carbon footprint of our current and upcoming structures
- Develop more academic opportunities for architecture and green building for those interested in sustainable design
- Further investigate alternatives to LEED and what those possibilities could mean for our campus
- Create a website for UC Expansion and Development to act as a forum for discussion and transparency in the planning process

Energy

History & Current Mandates:

- The UC Policy on Sustainable Practices & American Colleges and Universities Presidents' Climate Commitment
- UCSC's Climate Action Plan and Chancellor's Executive Committee on Sustainability and Climate Change

Current Interest in Energy:

- Solar PV at the East Field House & McHenry Library
- New Cogeneration plant
- Meter retrofits around campus
- Beginning on site renewable energy projects
- Opportunities for UC wide renewable energy projects

Challenges in Energy:

- Onsite energy production would not fall under legal regulations – How can we work to change the legislation?
- New energy projects require an investment – How long is the payback?
- Many renewable energy projects require a lot of space – How can we overcome the “not in my backyard” outlook? Is education enough?
- Investor owned utilities are heavily invested and entrenched in keeping the revenue stream intact through lobbies and contracts – How can we give renewable energy a fighting chance? How can we change the foundations of our system?

Visions & Actions for Energy:

- For any new construction, set goals for maximizing renewable energy and integrating energy efficiency into the design process of the building
- Implement solar concentrated thermal on campus, preferably before the solar PV project on McHenry Library
- Expand the Green Campus Program by increasing the amount of for-credit interns, as well as by increasing the breadth through new campaigns such as Reading by Daylight
- Provide educational opportunities and exposure to energy efficiency practices at the time of orientation to the UCSC campus. This requires little money and the payback will be recognized as students alter their behavior.
- Implementing the LUCID Dashboard campus-wide for real time, up to the second data consumption which residents can log on to the site and look at energy consumption in “relatable terms”.
- Campus is a net positive generator of renewable energy by “2030”.
- Expanding educational opportunities with more outdoor classes, sustainable learning spaces (straw bail, renewable powered) as well as through further integration of sustainable energy practices in the general curriculum

Food Systems

History & Current Mandates:

- Students stood up against Sodexo, the contracted food operator/distributor for UCSC, demanding a change in the University's current food system
- Solidarity campaign around labor, food system, and social justice
- UCSC Food Systems Working Group (FSWG) has been working with campus dining for sustainable foods, fair trade goods, organic goods
- For over 10 years, we have increased our local and organic food purchases, which now primarily come from the Monterey Bay Consortium of Organic Farmers. We have one of the highest levels of organic foods across the country.

Current Interest in Food Systems:

- College & Rooftop gardens
- Increasing accessibility
- The Farm & the Apprenticeship program
- Fair trade issues and fair competition for farmers

Challenges in Food Systems:

- Maintaining a balance between meeting the needs of the students and the needs of the administration through greater communication
- Understanding the production yields of organic crops – How much food is ideal to produce on campus?
- Maintaining social equity and justice in the sustainable food movement – How to address issues of distribution and allocation, as well as elitism and green-washing?
- Overcoming our current, linear food system – How to become more engaged? How to bring people closer to the site of production?

Visions & Actions for Food Systems:

- Utilize and expand the College Gardens for an on-campus farmer's market, while also considering integration of livestock at CASFS
- Increase communication and trading through a community bartering network, as well as sharing successes and challenges with other UC campuses
- A school garden Farmers' Market
- CAN: Coffee labeling → Clearly defined (i.e. fair trade, organic, etc)
- Exploring more plant-based options in the dining halls, including Meatless Days, Cage-free eggs, more organic & local choices, reduced processing, etc.
- Ballot Measure 43! Voting period begins May 18
- Create more education opportunities including: incoming student orientation at the Farm, waste reduction campaigns, and a life cycle analysis of dining hall food
- Increasing composting efforts campus-wide, including: educational & visible composting programs and in vessel composting systems

Land, Habitat, & Watershed

History & Current Mandates:

- Land, Habitat & Watershed Working Group meets regularly throughout the year
- Campus land is often utilized for educational purposes, such as labs and other outdoor programs
- The UC Santa Cruz campus has many distinct ecosystems that are currently undeveloped

Current Interest in Land, Habitat & Watershed:

- Current natural world, let's preserve it
- ENVS - students getting credit for real-world applications of textbook-based knowledge
- Student organizations serve as stewards of the environment through action and best practices

Challenges in Land, Habitat, & Watershed:

- Involving students in the UC bureaucracy, decision-making process - How do we channel student concerns and passions in a cooperative and effective way?
- Making history of land use more accessible to everyone - How can we implement natural history of UCSC into the curriculum? How can we expand this education more departments?
- Raising awareness of endangered species & taking the natural world in to consideration when planning new infrastructure
- Connecting the staff and faculty in the Site Stewardship Program
- How can we give people a sense of place, belonging, interconnection, and accountability for their surroundings so they understand their impacts?
- Culture of sustainability - How do we impart the sustainability culture into our own social groups beyond UCSC?

Visions & Actions for Land, Habitat & Watershed:

- Implement natural history and land use decisions into the core-curriculum of each of the residential colleges
- Expand the campus tours to include the natural habitat of the university
- Utilize nature immersion in classes such as field classes to directly involve students with the world around them
- Promote responsible guidelines for construction: build up, not out to prevent developing natural, undeveloped land
- Create a new student organization to address LRDP concerns in a constructive and collaborative method
- Explore the possibility of making a documentary on the natural history and land use of UC Santa Cruz for the purpose of educating the campus community

Green Purchasing

History & Current Mandates:

- Green Purchasing Working Group started in 2009
- All departments utilize purchasing & procurement
- 6 years ago the purchasing department was created
- UCSC is fairly strong in green purchasing because of CruzBuy
- UCOP level they have system wide contracts and they consider sustainability in their point system but this is not mandatory.

Current Interest in Green Purchasing:

- The Green Campus Program: low flow urinals, lighting retrofits, and smart strips
- Energy efficient lighting
- Environmental student organizations
- Student Union Assembly collaborating with the Chancellor's Office & administration
- Solar PV on McHenry from the EPA grant

Challenges in Green Purchasing:

- Involving students in the UC bureaucracy, decision-making process - How do we channel student concerns and passions in a cooperative and effective way?
- Educating consumers to make responsible purchasing choices – What campaigns and methods could be utilized?
- How can we lobby for better purchasing guidelines throughout the state and UC system?
- Maintaining involvement in the green purchasing movement and building collaborative relationships between staff and students
- Recognizing the possibility of increased costs when utilizing socially-responsible purchasing

Visions & Actions for Green Purchasing:

- Create a campus wide policy mandating green purchasing practices
- Provide educational programs for all campus departments (educational and administrative) such as “track your trash”, sustainability measurements, and a green purchasing guide
- Explore further funding & grant opportunities through student-driven research
- When possible, transition to more local suppliers and merge campus deliveries
- Implement a seat for the Green Purchasing Working Group on the purchasing board for renewable energy
- Promote more student involvement to maintain momentum, possible an SEC campaign
- Start a lobbying campaign for more city and state funded renewable energy projects on campus
- Expand the Chancellor's Undergraduate Internship Program to include a position for Green Purchasing

Transportation

History & Current Mandates:

- UC Santa Cruz has always promoted the use of alternative transportation methods for commuting to and from campus
- In the past years, sustainable transportation use has grown significantly

Current Interest in Transportation:

- Civil right to a healthy environment

Challenges in Transportation:

- The desire and convenience of driving to campus – How can we make the idea of alternative transportation more desirable?
- The current LRDP plans include expansion of roads and parking lots/structures – Is this really the best option for the campus to promote the increase of vehicular traffic?
- Building collaborative networks amongst students, staff, faculty, and administration – How can we better include everyone in the transportation planning process?
- Construction on campus makes for unsafe biking conditions – What can we do to provide alternative routes or safe corridors?
- Campus is often highly congested with traffic – Is the new TAPS traffic direction working well? Should this be continued?

Visions & Actions for Transportation:

- Increase the amount of educational opportunities for students to explore walking and alternative transportation; for example, showing walking shortcuts during campus tours or a campus bike ride during summer orientation
- Improve the current TAPS funding model to avoid the conflict of interest that arises from relying on parking income
- Contract with metro of monthly passes instead of \$1.50 per ride
- Explore the possibilities for making fleet services more sustainable through retiring old vehicles, utilizing more electric carts, or having vehicles operate on bio-diesel
- Promote the reduction of delivery vehicles operating on campus
- Expand the amount of bike shuttles and research the funding opportunities for electric bikes
- Further research UC Santa Cruz's options for contracting with Santa Cruz Metro

Waste Management & Recycling

History & Current Mandates:

- Many grassroots campaigns for recycling on campus, dating back to first Earth Day
- Dave Wade was hired to create a coherent, consistent recycling system
- Waste Working Group
- Expanding composting programs on campus

Current Interest in Waste Management & Recycling:

- Changing the way the dining hall provides food and manages waste
- Saving money through programs like tray-less dining
- Interactive and educational trash bins
- Educational opportunities for creating a zero-waste campus
- On campus composting systems, including a solar powered system
- Bringing power back to the consumers and students

Challenges in Waste Management & Recycling:

- Composting poses many challenges including: meeting environmental regulations, handling large quantities for the entire campus, creating an in-vessel system
- Many purchasing choices have the power to create more or less waste
- Behavioral change for all campus community members – How can we influence more conscientious behavior? Are educational programs the answer?
- Prioritizing projects – There are many short-term projects that need attention, however looking toward the future is also critically important.

Visions & Actions for Waste Management & Recycling:

- Improve the current waste & recycling system through better labeling and locating the bins in convenient locations
- Start handling all our waste with on-site programs through more responsible purchasing and in-vessel composting systems
- Increase the zero-waste educational opportunities for the campus community, particularly incoming students at orientation and student organization events
 - Environmental Awareness Move-in plan/campaign
 - RA training (through the summer): environmental training centered around food waste & recycling on campus
- Build more collaboration amongst campus entities as well as throughout the community in order to maintain accountability for our waste and to lead by example for other education centers and organizations

Water

History & Current Mandates:

- UCSC has been conservative with water and per capita use has gone down
- Grounds services has been very conscientious regarding the landscaping choices
- The majority of the water used on campus is in the residence halls
- A large water reduction campaign that was successful: Trayless Dining

Current Interest in Water:

- In light of the LRDP and impending expansion of the UCSC campus, how can we continue to grow without infringing on water needs?
- Water meters and LUCID dashboard for current energy usage data

Challenges in Water:

- Meeting state and university building and treatment regulations for alternative water systems – How can we change the legislation?
- Many students are unaware of the city/university conflict over water resources – How can we provide an educational opportunity for these people?
- Campus expansion means more water will be needed – How can we implement more sustainable practices to keep water usage at the same levels pre-expansion?

Visions & Actions for Water:

- Explore the possibilities for implementing more greywater systems on campus, as well as more rainwater catchment facilities
- Increase the amount of educational opportunities, particularly for incoming students, in regards to quick ways to save water and make a difference on campus
- Engage students through water campaign programs such as mock utility bills and water saving competitions
- Integrate responsible water usage into the planning and renovation of campus buildings, including the possibilities of living roofs
- Continue and expand the Meatless Days in the dining hall and utilize the educational materials that correlate meat with water usage
- Develop an orientation for Res-Life to pass on to their incoming students regarding water usage in the residence halls

Social & Environmental Justice

Current Interest in Social & Environmental Justice:

- Understanding the possibilities and struggles that the university faces in creating a socially and environmentally just campus and community

Challenges in Social & Environmental Justice:

- Broad terminology that is not always clearly understood – How can we spread awareness about social & environmental justice in a way that is accessible to everyone?
- Administrative buy-in to social & environmental justice policies is limited – How can we supplement the Campus Sustainability Plan to include areas of justice and equity?
- Student activism is an amazing force on campus, however students are continually leaving – How can we create a movement that is grounded in the campus community regardless of the rotation of students?
- The environmental movement often disregards questions of equity and justice – How can we as a campus promote fair environmental policies that do not leave any groups marginalized by our waste, carbon footprint, etc?
- Attending a university is expensive - How can we provide higher education opportunities for all people?

Visions & Actions for Social & Environmental Justice:

- Increase the amount of educational campaigns on social & environmental justice that include all members of the campus community; for example, this could include panel discussions, student organizations, or days of action or demonstration
- Express the need for a system wide social & environmental justice policy
- Utilize the opportunity to raise awareness of social & environmental justice efforts on campus amongst new students at orientation, welcome week, and through RA training as well
- Build stronger relationships with the community organizations that work in social & environmental justice
- Promote responsible investing, purchasing, and waste management practices on campus

Academics & Curriculum

History & Current Mandates:

- New G.E. “perspectives” will be implemented in Fall 2012 with a focus in environmental education
- SEED program (Sustainable Engineering and Ecological Design)

Current Interest in Academics & Curriculum:

- UCSC Summer Sustainability Institute
- CASFS: Apprenticeships, experiential learning, grassroots action, life lab
- PICA: garden, class and community, internships for students for garden education
- CAN: Community Agroecology Network, offers different ways for experiential learning by interning in the office, through food systems, in organizing events and campaigns, international internships; FOCAN
- OPERS: learning journey programs
- Sierra Institute: born at UCSC and moved to Humboldt State- eco psychology, community and sustainability
- Education for Sustainable Living Program (ESLP), Student Directed Seminars, College Garden Classes, & Bike Class
- ENVS: internships, field quarter, new environmental education focus

Challenges in Academics & Curriculum:

- Difficulties in creating a new major – How can we promote and streamline this process?
- Budget cuts have drastically impacted educational opportunities at UCSC, including the loss of the Community Studies major – How can we protect our academics, students, lecturers, and resources?
- Limited awareness of educational opportunities for incoming students

Visions & Actions for Academics & Curriculum:

- Protect the Community Studies major through collaborative efforts with other campus departments
- Increase the amount of environmental education opportunities in the general curriculum, including the utilization of outdoor education
- Continue and expand the College Garden classes to be more student run with faculty advising
- Strive to acknowledge UC Santa Cruz as a “green curriculum” campus
- Streamline the processes for creating your own major to encourage interdisciplinary studies
- Promote an open-space for all campus community members to discuss environmental education opportunities on campus
- Call for the matching of administrative support on sustainable education measures

Earth Summit Breakout Group Attendees

Green Building & Facilities Participants:

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