

Academic and Research:

Short Term (1 year)	Intermediate (5 year)	Long (10year)
<ul style="list-style-type: none"> • Support Recommendations of Environmental Task Force • Complete Assessment of what is being done • Modify Instructional Development mini grant program to include sustainability • Instructional improvement grants • Work with Development Office to identify outside funding • Identify opportunities to develop curriculum materials • Facilitate the connection between course materials and what is needed in the community • Ecological restoration internship model • Energy modeling • Have a presentation from Perrin on how to LEED EB certify and from Scott on purchasing for staff and faculty • Internships for students to work on LEED EB (utilize Katie) • Incentive in freshman seminar program on sustainability • web access • faculty meetings for quarter • access and knowledge to this information; effective access and dissemination campaign • Using environmental task force's recommendations on outreach • facebook example; blog • Define outreach models • Identify current champions • Sustainability Conference • Solidifying the Office of Sustainability as a focal point; via funding and housing • article in 93106; publicity • work sustainability into orientation program • Staff Education/training (Scott Mackenzie is doing this) • Environmental Marketing in the bookstore (already doing) • Student-led courses in sustainability (already doing) • Statement into Academic Plan 2005, work into cluster hire sustainable faculty for global, enviro, and service learning? • Tours – orientation tours, publicizing the bren tour, Girvetz LEED EB • Meet with Counseling and Career Services about sustainable career fair and options for graduating seniors • Working with existing educational outreach programs such as Kids in Nature • Encourage participation from academics at the June 25-28, 2006 UC/CSU/CCC Sustainability Conference 	<ul style="list-style-type: none"> • Conference/Colloquium on Sustainability (2year) • Develop a proposal for the specialization of sustainability (interdisciplinary PHD, undergraduate degree emphasis) and approved • More Faculty specialized in sustainability, evenly distributed throughout the university (cluster hiring) • 10 departments/programs sustainability included in lower division courses • Sustainability integrated in daily campus activities; creating a sustainability culture • TA training? • Yearly Campus Sustainability Day in the Fall 	<ul style="list-style-type: none"> • Have specialization running (interdisciplinary PhD and undergraduate degree emphasis) • 80% departments/programs sustainability included in lower division courses • Integrating into next version of Academic Plan

Built Environment:

- Establish campus sustainability standards for new building construction and renovation work. Make these standards available on our web site.
- Develop Sustainable Design Language for Consultant Proposal Requests and University Contracts.
- Buildings should showcase sustainable design techniques in a “Building that Teaches” approach.
- Design buildings in a sustainable manner as described in both the “Whole Building Design Guideline”, developed by the Federal Government and LEED, developed by the U.S.G.B.C.
- Select consultants based on proven skills in designing buildings that meet UCSB standards.
- Building design would be flexible to accommodate future sustainable features.
- Continue to educate campus on impacts of new construction as well as resulting sustainable practices.
- Each design team member participates in eco-charette prior to designing the building

Communications Goals:

- 1) Initiate a program of Campus Sustainability presentations, working with change agents to develop these, either as broad views of the campus plan or especially focused on their areas in the campus community. Seek out both the groups and the appropriate methods of information.
- 2) Develop a universal powerpoint to assist all change agents giving presentations around campus. It will be downloadable from the website. A CD/DVD will be developed for use as a self-contained presentation that can be used anywhere that is properly equipped. Powerpoint should be completed and posted on the web by next week. DVD TBD.
- 3) Change campus printing purchasing and policies:
 - Reduce paper use – ask departments to analyse needs for paper, both within the dept. and for publications, meet with publishers (Arts and Lectures, Presenters, Development) towards this end.
 - Effect purchasing policies to use only sustainable harvested and recycled content papers, environmentally friendly inks.
 - Work with purchasing on encouraging companies to provide infinitely upgradeable or returnable machines (e.g. computers, printers, etc.)

Food UCEN:

- * Use green cleaning chemicals

* Organic and Locally Grown Food Selections

Paterno currently has organic dough, pizza sauce, and pasta. The short term goal is to add other organic items as they become available in commercial sizes. The new Arbor store also has a small supply of organic options in a variety of both refrigerated and non-refrigerated products.

* Composting

By the end of February, in conjunction with Marborg, we will compost both coffee grounds and green waste.

* Testing Compostible Flatware and Disposal Ware

In the process of doing a compost test on flatware and disposable paper-like products that are made of corn, potato, and sugar beet. A test site will be monitored by Mark Rosseau in housing.

* Vendor Blanket POs

All 200 purchase orders to our vendors at the start of the fiscal year will have verbiage regarding sustainability, green, organic, etc and the need to partner with vendors that practice

Long Term:

- * Expanding Organic and Locally Grown Options to all units
- * Switching Disposables to Products that Compost

Working in conjunction with the campus or Marborg to find site for composting all disposable products.

* Food Manufacturers

Getting support from the organic manufacturers to package and provide foodservice products in commercial sizes

Grounds

I. Where we are now

(This is filled in only from the perspective of grounds department in Housing and so would not accurately represent the entire campus. I will ask Jon to add to this from Physical Facilities information)

WATER

- Approximately 50% of our present irrigation is potable water
- Present excess water is drained to water retention ponds and holding areas in several of our properties

- Our existing water conservation plan outlines several ways that we are focusing on saving water, including reduction in turf, incorporation of recycled water, and advanced central irrigation programs.

PLANT MATERIALS

- Several turf areas have been replaced with plants that require less irrigation. Astro turf and porous hardscape *(e.g., decomposed granite) have been installed in limited areas, with possible future sites still being explored
- High water use plants are replaced in several areas with plants requiring less water.
- Demonstration gardens highlight new plants and plant groupings that show possible ways of incorporating water conserving plants while still getting color and style in the garden
- Green waste is being removed and recycled to provide mulch and compost to local users

STAFFING/MAINTENANCE (Quality of life at work)

- H&RS Grounds is utilizing equipment such as tailgate lifts, skid steer loaders, lightweight backpack blowers, and ergonomically-friendly tools to reduce injury and strain to staff throughout their daily work
- Minimal to zero exposure to pesticides and hazardous materials in the workplace
- Safety training that provides directives for staff to take care of their health and well-being - both at work and during their daily lives.

II. Where we want to be

WATER

- No potable water to be used on the grounds
- Grounds water to first be locally derived to the degree possible
- Supplemented by recycled water

PLANT MATERIALS

- All un-necessary turf to be discontinued and replaced by low maintenance, potentially low-water ground covers, Astro turf or porous hardscape *(e.g., decomposed granite)
- Larger plantings to be dominated by low-water, low maintenance taxa possessing year-round beauty
- Those taxa desired for teaching purposes that have high water-requirements are to be clumped in limited area.
- Exotic taxa are to be clumped towards the center of campus in the "developed zones", while native taxa are to be placed at the periphery, forming a broad buffer between exotic taxa and the larger natural setting of the campus (per original landscape plan).
- Invasive exotics (desired for teaching) are to be planted sparingly in the campus core, and then within contained spaces, e.g., courtyards.

STAFFING/MAINTENANCE

- H&RS Grounds will seek to reduce mechanized maintenance procedures, and base those necessary upon renewable energy sources.
- In developing low maintenance landscape, H&RS will seek to create a smaller, but better paid work force.
- H&RS will seek to use a portion of its lands as a garden to provide food for food services. These gardens will be maintained by H&RS grounds staff in return for which they shall be allowed access to produce for personal consumption.

EDUCATION

- Signage will describe sustainability practice to the passing public.
- H&RS will participate and encourage both public education by outreach and the use of its resources in campus courses.

Procurement

“Quick Wins”

- Electronic systems:
 - catalogs (elimination of decentralized hard copies)
 - process payments
 - travel, including back-up documentation and signatures
- Begin implementation of e-signatures
- Packaging (recyclable, rapidly renewable, bio-based, practical & effective)
- Phase out non-recyclable products (20%)
 - Virgin paper, goldenrod, astrobrite, etc.
 - Office equipment
 - Carpet
 - Office supplies
- 100% Energy Star utilization written into contracts and enabled in current machines
- Creation and *pilot* of matrix, criteria, and guidelines for more sustainable procurement (emphasis on vendor selection/qualification)
- Alignment of goals for strategic initiatives (systemwide, campus, department understanding)

“Intermediate”

- 100% e-procurement
- E-signatures for all forms
- Phase out non-recyclable products (50%)
- Continuous improvement and *utilization* of matrix, criteria, and guidelines for more sustainable procurement (emphasis on vendor selection/qualification)
- Campus specific e-bay/reuse of surplus sharing system

“Long Term”

- All vendors “sustainable” certified
- Phase out non-recyclable products (100%)
- UC wide e-bay/reuse of surplus sharing process
- Restoration

Transportation

1. Campus Fleet
 - a. On Campus E-85 fueling station
 - b. On Campus BioDiesel fueling station
 - c. Create purchasing policies that coincide with our fuel availability and further our sustainable vision
 - d. Ex: Flex Fuel Vehicles for new purchase and retrofitting existing fleet
 - e. Waste Stream Management related to campus fleet

2. Fair Pay-as-you-Go Parking Pricing to encourage alternatives to Single Occupant Vehicle Use
3. Affordable Housing for 80% of Faculty and Staff within 5-mile biking distance
4. Carbon Neutrality for Transportation
 - a. Built-in Carbon offset fee per gallon charged at the pump when fleet vehicles fill up
 - b. Option to purchase voluntary offsets when ordering online campus parking permits.
 - c. Other alternatives to purchase offsets: Paid for by other aspects of the University OR voluntary donation by campus users perhaps with local campus perks that reduce greenhouse emissions.
5. Encourage employees and students to commute by bicycle:
 - a. Design a Bicycle master plan and a Bicycle Planner for all areas of the campus.
 - i. UC Davis has such a full-time employee at this position
 - b. Continued presence of UCSB bike repair shop in a central location
 - c. Bicycle rental fleet for personal and related local trips
 - d. Periodic free bike tune-up for bicycle commuters
 - e. Monthly *Street Skills for Cyclists* training (will ask City of SB for details)
 - f. Shower facilities in admin buildings (already available at Rec Cen I, II, and Bren Hall)
 - g. Wider distribution of bike and transit maps, and brochures on campus
 - h. Bike locker available on campus for a nominal rate (\$25/quarter)
6. A Transportation Plan and Transportation Planner for UCSB
7. Long Range Development Plan and Campus Growth should be accommodated through Transportation Demand Management (TMD).
8. Pursue the possibility of siting a Biodigester to create methane and hydrogen as a fuel source for campus fleet vehicles.
 - a. How it works:
 - i. Steam conversion of CNG into Hydrogen (?)
 - ii. Methane energy sold back to grid, lowers net cost to run biodigester (?)
 - b. Potential CA state grant to cover ~50% of costs from Hydrogen Highway Initiative
 - c. Biodigester contractor - OnSite Power, Inc. - Davis area
9. Achieve UCSB's intellectual goals with energy conservation

- a. Work with the Transportation Alternatives Board
10. Influence Local Transit
 - a. Santa Barbara Metropolitan Transit District
 - i. Increase transit service, esp. 15x Route, possibly others
 - b. Valley Express
 - c. Clean Air Express.
 11. Influence Regional and Long Distance Transit
 - a. Amtrak Rail
 - b. Coastal Express
 - c. Greyhound Bus Line
 12. Cooperation with Goleta, Santa Barbara and County Planners
 - a. Opportunities for “smart corridor” technology
 - i. Maximize existing road capacity by adjusting signal timing and highway access depending upon existing traffic volumes
 - b. Develop recycle-a-bike program
 - c. Participation in local and state grant programs funding improvement projects with local industry mitigation fees (CREF)
 13. Work with UCSB Travel Management
 - a. Business Travel
 - i. Video Conferencing and Conference calls
 - b. Athletic Travel
 14. UC System wide Travel by UCSB Administrators to UCOP or other UC campuses
 15. Human Resources Options
 - a. FlexTime 4/40s 9/80s and other ways to reduce trips through schedule adjustments (this relates to the work that the HR group is doing)
 - b. FlexWork (this relates to the work that the HR group is doing)
 - c. TeleCommunting (this relates to the work that the HR group is doing)

Barriers to Achieving Goals

1. Increasing limited funding and resources without shifting funds away from necessary programs
2. The perception that the automobile will always be the most convenient mode of transportation

- = Some material borrowed from the City of Santa Barbara’s Sustainable City Program, First Annual Report, pg. 41 – 46.
<http://www.santabarbaraca.gov/NR/rdonlyres/E3C79253-42CE-4E0B-B0C3-D50961E40781/0/SustainableCityProgram1stAnnulRpt.pdf>

Waste

Mission: Reduce the UCSB waste stream to a minimum using the parameters of the Natural Step system.

Goal 1: To characterize the waste on the UCSB campus

Goal 2: To evaluate the waste stream characterized in goal 1 with regard to the parameters of the Natural Step system.