

I. Green Building Design, New Buildings

UCOP Policy	UCSB Campus Sustainability Plan (CSP)	Comments
A) All new buildings except acute care facilities will surpass California Energy code Title 24 by 20%	Included in CSP, Built Environment, Current Sustainable Practices. Standard practice at UCSB.	
B) UC will design all new buildings except for laboratories and acute care facilities to a minimum standard equivalent LEED 2.1 certified and strive for silver	Included in CSP: Built Environment section, Current Sustainable Practices. All new buildings (even labs) programmed after July 1, 2004 will meet LEED silver.	
C) Campuses will strive to achieve a standard equivalent to a LEED Silver rating or higher whenever possible within the constraints of program needs and standard budget parameters.	Included in CSP: Built Environment section, Current Sustainable Practices. All new buildings programmed after July 1, 2004 will meet LEED silver.	
D) Important to address laboratories to a minimum standard of LEED certified or use the Labs 21 EPC criteria. Design process will address energy efficiency for systems not addressed by Title 24.	Included in CSP: Built Environment section, Current Sustainable Practices. All new buildings programmed after July 1, 2004 will meet LEED silver and required to surpass Title 24 by 20%.	
E/F) OP will develop internal evaluation and certification standard based on the LEED and Labs21 measures. The measures required by this policy guideline will be incorporated into all new building projects, other than acute care facilities.	N/A; UCSB is committed to external LEED certification.	
G) Further study will be conducted before a similar sustainable design policy for new acute-care facilities is adopted.	N/A; UCSB does not have acute care facilities.	

I. Green Building Design, Building Renovations

UCOP Policy	UCSB Campus Sustainability Plan (CSP)	Comments
<p>A) Any significant renovation projects involving existing buildings will also apply sustainability principles to the system, components and portions of the building being renovated. At budget approval all renovation projects should include a list of sustainable measures. Design and specification of renovation components should meet or exceed Campus Baseline Green Building points.</p>	<p>Included in CSP: Built Environment section, Short Term Goals.</p>	
<p>B) Major renovations (100% replacement of mechanical, electrical and plumbing and over 50% of interiors should comply with a minimum of LEED NC 2.1 certified equivalent or most current version of LEED NC. Perform lifecycle analysis-out perform T24 by 20% and register with Savings by Design.</p>	<p>Included in CSP: Built Environment section, Short Term Goals</p>	
<p>C) Renovation projects with a project cost of \$5 million or greater (CCCI 5000) that do not fall into category 1 about should at a minimum comply with a UC equivalent to a LEED CI certified rating and register with Savings By Design.</p>	<p>Included in CSP: Built Environment section, Short Term Goals.</p>	
<p>D) Green building requirements b and c above will apply to the listed categories of renovations, receiving budget approval after July 1, 2007.</p>	<p>Included in CSP: Built Environment section, Short Term Goals.</p>	

II. Clean Energy Standard

<p>A) Encourages implementation of a system-wide portfolio (efficiency, renewables, green power, etc) approach to reduce consumption of non-renewables</p>	<p>UCSB has pursued the portfolio approach since the 1990s. Addressed in CSP: Energy section, Current Sustainable Practices.</p>	
<p>B) The University will strive to achieve a level of grid-provided electricity purchases from renewable sources that will be similar to the State’s Renewable Portfolio Standard, which sets a goal of procuring 20 percent of its electricity needs from renewable sources by 2010.</p>	<p>UCOP level/Campus Energy Managers working together for this to happen. Leverage influence and purchasing power.</p>	<p>UCOP level goal. All UC energy managers work together. UCSB purchases energy from Edison. Edison power content label is already at 16-18%. UC Energy managers and others will encourage utilities to increase the percentage.</p>
<p>C) With a goal providing up to 10 megawatts of local renewable power by 2014, the university will develop a strategic plan for renewable power projects in existing and new facilities.</p>	<p>From CSP: Energy section, Intermediate and Long Term goals: “Increasing renewable energy is in the plan. Part of the Portfolio approach. Intermediate and long term goals for energy:</p> <ul style="list-style-type: none"> • Increase renewable photovoltaic production to 7% • Increase wind energy production to 20%(maybe not local) • Increase new green technology to 6% of total consumption” 	<p>UCSB on the way to local renewable power. In summer ’07, UCSB will have up to 210 kW on campus (100-133 kW Rec Cen solar, 42 kW Bren solar, 4 kW Carrillo dining solar). Also exploring additional onsite renewables.</p>
<p>D) With a goal of reducing system-wide non-renewable energy consumption, the University will develop a strategic plan for implementing energy efficiency projects for existing buildings and infrastructure to include operational changes and the integration of best practices.</p>	<p>See CSP: Energy section, Current Sustainable Practices and Mission Statement.</p>	<p>Standard practice at UCSB. UCSB Energy Team has a strategic plan for energy efficiency goals for the next 3 years and has implemented operational changes utilizing the LEED EB rating system. See</p>

UCOP Sustainability Policy/UCSB Campus Sustainability Plan Comparison
 May 2007

		attachment titled Energy Projects Proposed, 4-13-06. This list is FM's proposed energy projects to reduce energy and CO2 emissions.
E) The University will continuously evaluate the feasibility of other energy-saving measures with equivalent demonstrable effect on the environment and reduction in fossil fuel usage. In particular, campuses will strive to implement the Sustainable Transportation Practices described in Section III below.	In CSP: Energy section, Goals.	
F) The University will develop a variety of funding sources and financing alternatives for energy efficiency, renewable energy, and clean energy projects that will enable campuses to be flexible in addressing their energy needs.	In CSP: Energy section, Short Term Goals.	UCSB has been receiving grants and rebates from CPUC and Edison for many years. We will be submitting proposals to TGIF and working closely with Development to more effectively pursue donations.
G) The University will pursue marketing of emissions credits as a means to bridge the cost feasibility gap for green power projects.	In CSP: Energy section, Intermediate/Long Term Goals.	Several concerns have been raised on emission credits such as making sure the credits are retired properly.

III: Climate Protection Practices

UCOP Policy	UCSB Campus Sustainability Plan (CSP)	Comments
A) An overall goal of reducing greenhouse gas emissions while maintaining enrollment for all eligible students, enhancing research, promoting community service and operating campus facilities more efficiently. The University will voluntarily meet the State of CA Goals, pursuant to the	In CSP: Energy section follows the goals listed in the California Global Warming Solutions Act of 2006.	Chancellor Yang also signed the Presidents Commitment Letter for Climate Change. This has a detailed list of action items to reduce climate change. Majority of the recommendations the campus

UCOP Sustainability Policy/UCSB Campus Sustainability Plan Comparison
 May 2007

<p>“California Global Warming Solutions Act of 2006”: by 2020 reduce GHG by 1990 levels. In addition, by 2014, reduce to 2000 levels.</p>		<p>already follows.</p>
<ul style="list-style-type: none"> By December 2008 the university will develop an action plan for becoming climate neutral. Climate Neutrality means that the University will have a net zero impact on the earth’s climate, and will be achieved by minimizing GHG emissions as much as possible and using carbon off sets or other measures to mitigate the remaining GHG emissions. 	<p>In CSP: Energy section, Short Term Goals. The Bren School’s CCNI group project that maps out campus climate neutrality. Not all recommendations are feasible at this time, but with modifications, a campus climate neutral plan is possible.</p>	
<ul style="list-style-type: none"> Each campus will pursue individual membership with the California Climate Action Registry. 	<p>UCSB has been a member since 2005. The Registry has designated the UCSB campus as a Climate Action Leader for 2 years. Stated in CSP, Energy section, current sustainable practices.</p>	<p>See The Registry reports at sustainability.ucsb.edu</p>

IV: Sustainable Transportation Practices

UCOP Policy	UCSB Campus Sustainability Plan (CSP)	Comments
<p>A) In implementing a most efficient and effective economic and environmental strategy for campus fleets, campuses shall implement practicable and cost-effective measures, including, but not necessarily limited to, the purchases of the cleanest and most efficient vehicles and replacement tires, the use of alternative fuels, and other conservation measures.</p>	<p>CSP goal is slightly different but same overall goals: UCSB Campus sustainability plan goal: By 2011, 75% of campus fleet purchases will be fueled with alternative fuels, or ultra efficient vehicles. This goal coincides with the Dept. of Energy’s Energy Policy Act fleet goals.</p>	
<p>B) Campuses will be encouraged to collect data on Average Vehicle Ridership (AVR) of commuters.</p>	<p>In CSP: Transportation section, short term goals.</p>	<p>Been in conversation with Jamey Wagner about UCSB AVR and what</p>

UCOP Sustainability Policy/UCSB Campus Sustainability Plan Comparison
 May 2007

		area of campus would be responsible for documenting the AVR.
C) Senior Vice President, UCOP writes to auto manufacturers to talk about fuel choice and efficiency.		Covered at UCOP level
D) Using the time period 2004-2005 increase PZEV or ZEV's by 50% more or to 20% of total or to 50% non carbon fuel by 2010	In CSP: Transportation section, Intermediate goals: 75% of new purchases as super efficient or alt fuel by 2011. (Super efficient = SULEV (which is the same emissions level as PZEV), >30 mpg)	OP goals revolve around increasing numbers of alt fuel/clean cars, while UCSB's involve more of a phase out by purchasing clean vehicles on an as needed basis.
E) The University will work with regulatory agencies and other entities (regional transit, air quality mngmt. Districts) to speed the development, approval and implementation of programs and technologies that support the goals of sustainable transportation as related to the increased use of biodiesel or other alternative fuel sources.	Not in Plan; however, several UCSB staff routinely work with regulatory agencies, in part to explore new options for fuel.	Arjun Sarkar works with Air Resource Board, Jamey Wagner MTD.
Transportation Programs		
A) Share best practices		UCOP level. Currently done informally
B) The University will develop a mechanism for ongoing involvement of undergraduate and graduate students in effort toward achieving sustainable campus transportation. The means may include but are not limited to undergraduate and graduate internships and/or scholarships for relevant conference attendance.	In CSP: Transportation section, Short Term Goals.	
C) By January 2009 each campus will implement a pre-tax transit pass program to facilitate the	Campus already does this through TAP. Mentioned in CSP: Transportation section, Current Sustainable	

UCOP Sustainability Policy/UCSB Campus Sustainability Plan Comparison
May 2007

purchase of transit passes by University employees, or will establish a universal access transit	Practices.	
D) University will pursue ride share programs at each campus for all eligible program participants. In conjunction campuses will engage in advocacy efforts with local transit districts to improve routes in order to better serve student and staff ridership.	In CSP: Transportation, Current Sustainable Practices: “TAP employees and board members also work with local transit agencies and government groups to encourage affordable and convenient transportation options for commuters.” Also, see http://www.carpoolworld.com/ucsb.html .	
E) To the extent practicable, campuses will develop a business case analysis for any proposed parking structure projects.	From CSP: Transportation section, Long Term Goals: “The Campus will work towards no net growth in campus parking spaces beyond 2006 levels.”	

V. Sustainable Operations

UCOP Policy	UCSB Campus Sustainability Plan (CSP)	Comments
A) University will explore the development of a standard methodology for sustainable practices and standards for facilities Management, by assessing the LEED EB tool.	UCSB has already evaluated and assessed the LEED EB tool. Girvetz hall received a LEED EB silver in the Fall of 2005. Stated in CSP, Built Environment section, Current Sustainable Practices.	
B) UC will develop a plan to operate and maintain all scope eligible campus buildings at a minimum standard equivalent to a LEED EB “certified” rating.	UCSB has already evaluated and assessed the LEED EB tool. Girvetz hall received a LEED EB silver in the Fall of 2005. Stated in CSP: Built Environment section, Current Sustainable Practices.	
C) University will incorporate these Sustainable Operation Policy Guidelines into existing facilities related training programs, with aim of promoting and maintaining the goals of the Policy.	Stated in CSP: Built Environment section, Current Sustainable Practices.	
D) The University will work with the USGBC to address the needs and concerns of campuses in	In CSP: Built Environment section, Current Sustainable Practices. UCSB is a pilot member of the	See attachment for a list of UCSB buildings involved in the Portfolio

UCOP Sustainability Policy/UCSB Campus Sustainability Plan Comparison
 May 2007

further development of the LEED EB rating system and the Portfolio Program.	Portfolio Program. Will provide information to UCOP on our progress.	approach.
E) Campuses will explore ways to connect the buildings it certifies through the LEED EB with the University's educational and research mission using the buildings as living laboratories.	In CSP: Built Environment section, Intermediate Goal 1 states vision to showcase sustainable design techniques using a "Building that Teaches Approach".	Student interns assist with the LEED EB documentation and professors have used data collected from sustainability projects for academic work.
F) Eligible scope buildings for the purpose of this policy will be all buildings on site at the ten campuses; except the following buildings or building types: acute care and patient care facilities; Buildings scheduled for demolition, replacement or major renovation; any building not located on the main campus; and any building less than 50,000 maintained gross sq. ft.		UCOP criteria for LEED EB eligible buildings.
G) Timetable for full campus implementation will be further evaluated after completion of the interim milestones listed in the Implementation Procedures below.	UCSB has already complied.	

VI: Recycling and Waste Management

UCOP Policy	UCSB Campus Sustainability Plan (CSP)	Comments
A) Waste diversion: 50% by June 2008, 75% by June 2012, 100% by 2020	UCSB waste diversion already meets 50% goal. CSP: Waste section, Long Term Goals states: 5-10 yrs, 50% reduction in weight of trash per capita leaving campus (what's the baseline?). 10-15 yrs: 80% reduction per capita. 20-25 yrs: 95% reduction per capita. 25-30: 100%. Also more specific plans for construction, food,	UCOP's diversion goals are easier to understand, but CSP's reduction of total waste includes reduce and reuse, so makes more sense. CSP should address issue of baseline average and needs to re-organize

UCOP Sustainability Policy/UCSB Campus Sustainability Plan Comparison
 May 2007

	and hazardous waste.	some goals like wastewater and waste heat.
B) All campuses will develop an Integrated Waste Management Plan (IWMP) and funding mechanism by June 30, 2007.	Included in CSP, Waste section. Campus has plans/policies for all types of waste.	UCSB needs to create an IWMP, including source reduction steps and goals. Waste section of CSP needs also needs to develop a baseline.
C) Waste reduction integrated into Green Building Design and Sustainable Operations	This is met through the LEED EB Portfolio Program/ LEED NC, not explicitly in the CSP, which regards diversion rates.	Currently LEED NC diversion rates range from 95-98% for construction waste.
D) The University will seek to develop funding sources for financing waste reduction projects.	Included in CSP: Waste Short Term goals.	

VII: Environmentally Preferable Purchasing Practices

UCOP Policy	UCSB Campus Sustainability Plan (CSP)	Comments
A) University will utilize its purchasing power and academic and research excellence to advance the development of sustainable technologies by pressing markets to continually improve resource productivity.	Included in CSP: Procurement section.	
B) For products and services that do not currently offer environmentally preferable alternatives, the University will work with its existing and potential suppliers to develop options.	Included in CSP: Procurement section.	
C) Use “cradle to cradle” as a model	Uses cradle to cradle and other models.	
D) The university will continue to transition all locations toward electronic and paperless processes and utilize web-based catalogs and programs.	Included in CSP: Procurement section, Short Term Goals.	
E) The University will incorporate the credit requirements set for by LEED into product and	Included in CSP: Procurement section, Current Sustainable Practices and Short Term Goals	

UCOP Sustainability Policy/UCSB Campus Sustainability Plan Comparison
 May 2007

services sourcing and procurement.		
F) The University evaluates total cost of ownership including purchase price, operating cost, maintenance, collection and disposal, and recycling costs when selecting suppliers.	Included in CSP: Procurement section, Short Term Goals.	
Energy and Water		
A) For product categories that have ENERGY STAR rated products available, the university will focus its procurement efforts only on products with ENERGY STAR rating consistent with the needs of UC Researchers.	Included in CSP: Procurement section, Short Term Goals.	
B) All electronic equipment will be delivered with energy efficiency and conservation features enabled.	Included in CSP: Procurement section, Short Term Goals.	
C) University will utilize its strategic purchasing program to negotiate better pricing for rated commodities.	Included in CSP: Procurement section, Short Term Goals.	
D) UC shall establish an ongoing partnership with ENERGY STAR and press market for greater energy efficiency for products and services.	Included in CSP: Procurement section, Short Term Goals.	
E) Products and services using water, the university will give preference to technologies that ensure efficient use of water resources.	Included in CSP: Procurement section, Short Term Goals.	
Recycled Content		
A) UC will phase out the use of virgin paper and adopt a minimum standard of 30% PCW for all office supplies	Included in CSP: Procurement section, Short Term Goals.	
B) Uncut paper supplies UC will adopt a standard of 100% PCW recycled content paper.	Included in CSP: Procurement section, Short Term Goals.	

UCOP Sustainability Policy/UCSB Campus Sustainability Plan Comparison
 May 2007

C) University will utilize its strategic purchasing program to negotiate better pricing for commodities with recycled content as compared to commodities without recycled content.	Included in CSP: Procurement section, Short Term Goals.	
D) University will continually work towards increasing the procurement of products with high recycled content	Included in CSP: Procurement section, Short Term Goals.	
E) Outside suppliers and consultants are encouraged to print proposals and reports double sided.	Included in CSP: Procurement section, Short Term Goals.	
Green Seal Certified Products		Currently 80% of UCSB custodial cleaning products meet green seal; all custodial paper products meet green seal except toilet seat covers.
A) University will work to phase in Green Seal products	Included in CSP: Procurement section, Current Sustainable Practices and Built Environment Current Practices.	
Reduction of Hazardous Electronic Waste		
A) All desktop computers, laptops and computer monitors purchased by the university are required to achieve Bronze registration or higher under the EPEAT tool.	Included in CSP: Procurement Section, Short Term goals: Commodities.	For more information on EPEAT, see attachment.
B) Additional consideration will be provided for electronics products that have achieved EPEAT Silver or EPEAT Gold registration. The registration criteria and a list of all registered equipment are provided at http://www.epeat.net .	Included in CSP: Procurement Section, Short Term goals: Commodities.	

UCOP Sustainability Policy/UCSB Campus Sustainability Plan Comparison
 May 2007

C) The University will recycle all electronic waste in a responsible manner, as specified in the Implementation Procedures.	Included in CSP: Procurement section, Short Term Goals.	
Environmentally Responsible Packaging		
A) Packaging for electronics products should be designed, produced, and managed in an environmentally sustainable manner, as specified in the Implementation Procedures.	Included in CSP: Procurement section, Short Term Goals.	
B) The University will specify that all packing materials abide by at least one of, and preferably all of, the criteria listed in the Implementation Procedures:	Included in CSP: Procurement section, Short Term Goals.	
C) The University will work with its suppliers to ensure effective waste management and recycling programs are in place for all business operations.	Included in CSP: Procurement section, Short Term Goals.	
Effective Recycling and Manufacturer Take-Backs		
A) The University will work to incorporate effective end-of-life recycling programs into each commodity as applicable.	Included in CSP: Procurement section, Short Term Goals.	
B) The University will work with its suppliers to establish, re-use or recycling “take-backs” at no extra cost to the University, and in compliance with environmental standards that abide by	Included in CSP: Procurement section, Short Term Goals.	

UCOP Sustainability Policy/UCSB Campus Sustainability Plan Comparison
 May 2007

Federal, State, and local legislation regarding waste disposal.		
Supply Chain Environmental Responsibility		
A) The University will encourage suppliers to demonstrate environmental stewardship through their Environmental Management Programs.	Included in CSP: Procurement section, Short Term Goals.	
Evaluating Environmental Claims		
A) Suppliers citing environmentally preferred product claims shall follow requirements specified in the Implementation Procedures below.	Included in CSP: Procurement section, Short Term Goals.	
Training and Annual Plan and Report		
A) The University will incorporate the Environmentally Preferable Purchasing Policy into existing strategic sourcing and other training programs, with the aim of promoting and maintaining the goals of the policy. The University shall provide training seminars, supplier fairs, and workshops on purchasing environmentally preferred products and establish educational programs and materials for faculty, staff, and students.	Included in CSP: Procurement section, Short Term Goals.	
B) An annual plan and report shall be completed by each campus to define their environmental purchasing plan and report their efforts.	Included in CSP: Procurement section, Short Term Goals.	

UCOP Sustainability Policy/UCSB Campus Sustainability Plan Comparison
May 2007

Attachments:

1. **LEED Portfolio Program buildings**, this document is a list of campus buildings going through the LEED EB Portfolio Program
2. **Energy projects, proposed. 4-13-06**, this document is a list of proposed energy projects for then next 3 years showing energy and CO2 reductions.
3. **Ban.org pledge text**, this document is the actual pledge the UCOP policy specifies. This pledge is for responsible recycling of electronics.
4. **EPEAT criteria**, EPEAT evaluates electronic products according to three tiers of environmental performance – Bronze, Silver and Gold. This document provides further explanation of the levels and requirements for EPEAT.