Attachment
Green Building and Clean Energy Policy Implementation Progress

Item		Policy	Objective	Progress
I	a	*… the University will set a goal for all new building projects, other than acute-care facilities, to outperform the required provisions of the California Energy Code (Title 24) energy-efficiency standards by at least 20 percent*	Achieve 100% participation of new projects in Savings by Design (SBD) process to document progress towards outperforming Title 24 by 20%	1) Received agreement from all Utilities to provide SBD analysis for all UC projects. 2) Formed SBD users group from campus D&C staff and commenced quarterly phone calls with all utilities. 3) "Exceeding Title 24" training course provided in Novembe with attendance of 9 of 10 campuses.
I	b	*The University of California will design and build all new buildings, except for laboratory and acute care facilities, to a minimum standard equivalent to LEED™ 2.1 "Certified" rating.*	To set up a process to certify LEED equivalency to Regents for all projects starting their planning process as of July 1, 2004	1) As of Oct. 31, 2004, received campus baselines from 6 campuses. Seventh baseline expected in January 2005 (note that 3 campuses seeking LEED certification not required to submit baselines - UCI, UCSB, UCM). 2) Review committee has reviewed all submitted baselines, and returned comments to campuses.
I	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*	Study the feasibility of adopting LEED silver rating as UC policy	Merced, Santa Barbara and Irvine have committed LEED Silver standard. UCOP will evaluate cost implications of LEE Silver standard as information from these campuses become available.
I	d	*… the University of California will design and build all new laboratory buildings to a minimum standard equivalent to a LEED™ 2.1 "Certified" rating and the Laboratories for the 21st Century (Labs21) Environmental Performance Criteria (EPC), as appropriate. The design process will include attention to energy efficiency for systems not addressed by the California Energy Code (Title 24).*	Develop system for integrating Labs21 criteria into new lab design. Work with USGBC in development of LEED for Labs	1) Evaluated Labs 21 environmental performance criteria scoring system and incorporated into UC Green Building Policy Application Guide. 2) Received commitment from LBNL to assist with this effort. 3) Held three Labs21 trainings for UC project management and other relevant staff.
I	e	*Any proposed exception from this standard may be requested administratively during preparation of the PPG. Any exception proposed after approval of the PPG will be treated as a scope change and processed in accordance with standard University procedures*	Will use standard exception procedure - so no action necessary to establish implementation	N/A
I	f	*Further study will be conducted before a similar sustainable design policy for new acute-care facilities is adopted*	Will address in 2005-2006	N/A
I	g	*Any significant renovation projects involving existing buildings will also apply sustainability principles to the systems, components and portions of the building being renovated*		Initiated discussion with campuses on how to implement this item.
I	h	*In consultation with the campuses, the Office of the President will develop an internal evaluation and certification standard based on the LEED™ and Labs21 measures*	Develop a UC Green Building Application Guide	1) Application Guide developed, sent to campuses for comment and to guide baseline submittals. 2) Meetings held with all campuses to review application guide and to explain baseline requirements.
I	I	*Although the University certification standard of equivalency to LEED™ "Certified" will be internal, campuses may choose to pursue external certification through the LEED™ process, augmented with Labs21 criteria as appropriate for laboratory systems, in lieu of the internal process for a given project*	Assure all projects subject to Green Building policy are certified either internally by UC or through USGBC	Merced, Santa Barbara and Irvine have declared that they will pursue certification through USGBC
I	j	*The measures required by this policy will be incorporated into all new building projects, other than acute care facilities, submitted for first formal scope and budget approval after the start of Fiscal Year 2004-05*		New projects included in Regents' 2005-2006 Budget for Capital Improvements, which was approved in November 2004, must meet these standards. 1) First design review project submittals received from UCSF and UCD in Fall 2004.

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I	k	*To the extent feasible within approved funding, campuses are encouraged to apply sustainability principles to allprojects currently in design.*		N/A
I	l	*The University planning and design process will include explicit consideration of lifecycle cost along with other factors in the project planning and design process, recognizing the importance of long-term operations and maintenance in the performance of University facilities.*	Develop a consistent life-cycle cost analysis process for new design/retrofit projects to be utilized in decision making to determine operating cost implications of design choices	Using Savings By Design program to document life-cycle costs and savings of energy measures for all new design projects.
I	m	*The University will explore the development of a standard methodology for sustainable policies and standards for facilities management of existing buildings, including assessing the LEED™ Existing Building (LEED™ EB) evaluation tool being developed for this purpose. These policies and standards will address aspects of building cleaning, maintenance, and operation to include factors such as chemical usage, indoor air quality, utilities, and recycling programs*	To develop a program for sustainable facilities management for UC campuses	1) Submitted joint comments with several campuses on LEED EB review draft. 2) UCSB is testing one facility as a pilot project. 3) Two LEED EB training sessions held, attended by approximately 70 UC staff.
I	n	*The University will work closely with the US Green Building Council, Labs21, the US Department of Energy, the US Environmental Protection Agency, State government, and other organizations to facilitate the improvement of evaluation methodologies to better address University requirements. Additionally, the University will work with the US Green Building Council to develop a self-certification tool for University use*	To present coordinated information, review and program development needs to USGBC and other entities involved in environmental sustainability efforts. To maximize resources available from outside sources to support UC's sustainability policies and practices	1) Coordinated with USGBC to offer LEED EB trainings and to provide input to USGBC staff on UC concerns and interest. 2) UCOP and three campuses submitted comments on final LEED EB draft. 3) Held meeting for accessing federal resources. Attended b officials from EPA, DOE, LBNL. 4) Signed Partnership Agreement with DOE to join ReBuild America program and access free technical and consulting advice. 5) Secured participation from EPA and Alameda County Waste Management Authority to provide expert assistance in Strategic Sourcing efforts. 6) Actively participating in state's Green Building Task Force and Energy Policy Advisory Committee.
I	o	*The University will use its purchasing power to promote the availability of resource-efficient, energy-efficient, water-efficient, recycled-content, and rapidly renewable content products for building materials, subsystems, components, equipment, and supplies*	Integrate green procurement initiatives into UC's strategic procurement program	1) DOE has committed to funding small demonstration of energy eff dorm rooms with energy star rated appliances. 2) In response to UC request of manufacturers, 14 models of lab-grade fridges and freezers now rated Energy Star. 3) Partnered with EPA for ongoing expert EPP consulting - see item (n) above.
	p	*The University will work with regulatory agencies and other entities to speed the development, approval, and implementation of products and technologies that improve energy efficiency and support sustainable design, construction, and operating practices*	To gain acceptance and certification of new energy efficient fume hood design	1) Agreement has been reached on testing required by Cal OSHA. 2) Contract issued and testing underway.

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Item		Policy	Objective	Progress
I	q	*The University will develop a program for sharing of best practices*	To provide campuses tools to meet Green Building/Clean energy policy and to provide sharing of best practices amongst campuses.	1) Offered 3 kickoff meetings on energy efficiency partnership program. 2) Offered several best practices seminars at UC/CSU sustainability conference. 3) Monthly system-wide sustainability conference calls initiated in July. 4) Held 2004 UC sustainability conference at UCSB. 5) Secured commitment from UCSC to host 2005 sustainability conference. 6) Committed $40,000 from utility energy partnership program to document and present best practice case studies.
I	r	*The University will incorporate this policy into existing facilities-related training programs, with the aim of promoting and maintaining the goals of this policy*	same as q, plus integrate training with PMI programming	1) Offered Exceeding Title 24 training course in at three regional sessions across state. 2) Offered Labs 21 training course in northern Cal and soCal.

Attachment
Green Building and Clean Energy Policy Implementation Progress

Item		Policy	Objective	Progress
II	a	*The University will implement a systemwide portfolio approach to reduce consumption of non-renewable energy. The portfolio will include a combination of energy efficiency projects, the incorporation of local renewable power measures for existing and new facilities, green power purchases from the electrical grid, and other energy measures with equivalent demonstrable effect on the environment and reduction in fossil fuel usage.... Since each campus's capacity to adopt these measures is driven by technological and economic factors, the campus will need to reevaluate their energy measures mix on a regular basis...*	Develop analysis tools and resources for campuses to strategically plan their clean energy portfolio in compliance with the Clean Energy standard	1) Developed template for clean energy assessment. Met with all campuses in Spring 2004 to review Clean Energy standard and reporting requirements. 2) Most campuses submitted draft strategic implementation plan.
	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 2017. The University will initiate progress towards this objective in 2004 by purchasing 10 percent of grid-supplied electricity from renewable sources, subject to funding availability, and will track progress annually toward achievement of the 2017 goal of 20 percent.*	Meet the California Renewabl Portfolio Standard of 20% renewable content in electricitly supplied from the grid.	Currently, campuses taking service from SCE, PG&E and Riverside muni meet this goal. The main work is on direct access electricity supply. 1) Formed renewable energy advisory committee with experts from LBNL. 2) Currently negotiating renewable content of 2005-2008 direct access contract beginning at 12% renewable and increasing to 14% to follow state requirement.
	c	*With a goal of providing up to 10 megawatts of local renewable power by 2014, the University will develop a strategic plan for siting renewable power projects in existing and new facilities. The plan will include demonstration projects for photovoltaic systems and other renewable energy systems, such as landfill gas fueled electricity generation or thermal energy production. The strategic plan will include criteria for evaluating the feasibility of a variety of projects, such as incorporating photovoltaic systems in replacement roofing projects and in new buildings, as well as forecasting the accommodations necessary for eventual installation of photovoltaic systems....*	Install 10 MW of renewable power at campuses in the nex decade	1) Solar PV system installed on MLK student center at UCB. 2) Solar site assessment completed at UCB by MBA students. 3) Participation of UCSC, UCSB and UCOP in submitting sites for CPA 3rd party finance pilot program. 4) UCOP working with UCSF Mission Bay new parking structure project to incorporate solar PV array with 3rd party financing. 5) Best practices session on solar PV at UC sustainability conference held at UCSB.
	d	*With a goal of reducing systemwide 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. ... As with renewable energy projects, the University will develop funding sources and establish a program for financing retrofit projects. The initial goal for energy efficiency retrofit projects will be to reduce systemwide growth-adjusted energy consumption by 10 percent or more by 2014 from the 2000 base consumption level. The University will strive to achieve even greater savings as additional potential is identified and funding becomes available.*	Reduce campus energy consumption by 10% compared to a FY 99/00 base on a BTU per sf basis	1) Applied for and received grant funding for approx $6 million in energy efficiency and commissioning projects in 2004-05. 2) Applied for and received an additional $1.5 million grant fo demonstrating emerging energy technologies.

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Item		Policy	Objective	Progress
	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 evaluate transportation services, including fleet vehicles, Transportation Demand Management (TDM) programs, public transit, and on-campus housing goals.*	To examine other systems such as co-generation and thermal energy storage, and their equivalent effect on reducing fossil fuel consumption	1) Actively participating in a project to implement co-generation at UCI. 2) Participating in a co-generation users group convened by the Department of Energy.
	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.*	Develop an energy project delivery system including funding and financing sufficient to fund efficiency and renewable projects required to meet clean energy goal	1) 19-993 funds being approved for potential use on energy efficiency projects. 2) Preliminary discussions on linking deferred maintenance t energy efficiency projects.
	g	*The University will pursue marketing of emissions credits as a means to bridge the cost-feasibility gap for green power projects*	Develop additional funding incentives for development of clean energy projects by marketing project emissions credits	Student research project completed at UCB - conclusion that currently emissions credits will not provide significant economic incentive for renewable power projects
III		*On an annual basis, the President will provide a report to The Regents that details the impact of the University's sustainability efforts on the overall capital program and University operating costs. ...University will provide the means for the ongoing active participation of students, faculty, administrators, and external representatives in further development and implementation of this policy.*	Prepare annual green building/clean energy implementation status report for the Regents	1) see item II (a) above