MEETING AGENDA

TO: CAMPUS SUSTAINABILITY COMMITTEE MEMBERS
FROM: Campus Sustainability Committee Staff – Institute for Sustainable Development
SUBJ: CAMPUS SUSTAINABILITY COMMITTEE MEETING
DATE: August 21st, 2013 3:00 – 4:30 pm
LOCATION: Kendall 209

I. Committee Member Introductions
II. Approval of Minutes from June 5th, 2013 CSC Meeting
III. Update on CSU Living Labs Grant Proposals
IV. Update on CSU System-wide Draft Sustainability Policy
V. STARS Working Group Update
VI. Campus Sustainability Plan – Proposed Development Framework & Timeline
VII. Reports
   A. Campus Conservation Committee – Wymore
   B. Transportation Advisory Committee – Hearne
   C. Energy & Utilities Committee – Patterson
   D. Sustainability Education & Research Committee – Sistrunk
   E. Sustainable Food Systems Committee – Rankin
   F. University Housing – Bates
   G. Associated Students Sustainability – Goodsell
   H. Institute for Sustainable Development – Pushnik / Alexander
VIII. Campus Sustainability Day 2013 – W October 23rd
IX. Other Items
X. Next Steps
XI. Adjourn
MEETING MINUTES

TO: CAMPUS SUSTAINABILITY COMMITTEE MEMBERS
FROM: Campus Sustainability Committee Staff – Institute for Sustainable Development
SUBJ: CAMPUS SUSTAINABILITY COMMITTEE MEETING
DATE: June 5th, 2013  3:00 – 4:30 pm
LOCATION: Kendall 209

I. Committee member introductions
   a. Present: Hoffman, Wei, Hearne, Patterson, Bates, Sistrunk, Rankin, Banks, Wymore (David), Harmon, Hailey, Canada, Pushnik, Alexander
   b. Not Present: Wymore, Herren, Dizard, Scholtes
   c. New Committee Member – George Rankin, Director of Dining Services, as representative for Associated Students Director

II. Minutes from January 23rd, 2013 CSC Meeting Approved

III. Update on CSU Living Labs RFP
   a. 3 Proposals from CSU, Chico passed to second round of review
      i. Dr. Brown – Electricity and Water metering on four campus buildings
      ii. Dr. Sistrunk – Partnering with community interests to solve regional sustainability issues
      iii. Dr. Kallio – Experimental solar array monitoring on O’Connell

IV. Update on STARS Report
   a. Silver rating – on par with other CSU’s
   b. ACTION ITEM: Convene a working group to begin review and update of STARS report in an effort to achieve a Gold rating in the coming academic year

V. Campus Sustainability Updates
   a. Campus Conservation Committee
      i. Update on annual report, includes new recommendations related to Housing, standardizing waste/recycling bins, partnering with SCOOP
   b. Transportation Advisory Committee
      i. Update on new campus vehicle access gates, on-campus vehicle restrictions, bicycle support facilities
   c. Energy & Utilities Committee
      i. Building-wide lighting retrofits in Tehema and O’Connell recently completed; Modoc, Trinity and Laxson next in line
   d. Sustainability Education & Research Committee
i. Sustainability is second most popular GE pathway choice, FLC Civic Learning Institute

e. Associated Students Sustainability Program
   i. Planning to hire up to 16 interns for Fall semester, launching alternative transportation incentive program, aerators installed on all sinks in the BMU, SFAC project update

VI. Update on Campus Sustainability Planning Proposal
   a. Called for in EM 11-017
   b. Nine Focal Areas identified – divided among five Affiliate Committees
   c. ACTION ITEM: Distribute sample Sustainability Plans
   d. ACTION ITEM: Establish new Affiliate Committee focused on sustainable food systems for the campus, George Rankin, Dining Services Director volunteered to Chair

VII. Adjourn
COMMITTEE ON CAMPUS PLANNING, BUILDINGS AND GROUNDS

Revised Policy on Energy Consumption, Sustainable Building Practices, and Physical Plant Management

Presentation By

Elvyra
F. San Juan Assistant Vice Chancellor
Capital Planning, Design and Construction

Summary

This item presents the proposed policy to incorporate the application of sustainability principles across all areas of the university, including the academic program and business operations. The policy sets the goal to reduce greenhouse gas emissions (GHGs) pursuant to the California Global Warming Solutions Act (AB 32, 2006).

This policy continues to advance energy efficiency programs, expand onsite energy resources, and seek further savings through water efficiency and trash reduction programs.

Strategic Plan

The CSU’s mission promotes “an understanding and appreciation of the peoples, natural environment, cultures, economies, and diversity of the world.” It is in this context that the board’s policy be broadened to introduce sustainability into the academic curriculum through teaching, research, and service learning, in order to advance graduates who are environmentally literate, technically capable, and inspired to transform their future businesses and communities. The policy will encourage CSU students, faculty, and staff to use our campuses as living laboratories, developing, testing, and implementing new technologies and model practices to enhance the quality and richness of learning in concert with respecting and improving the environment.

Background

The California State University energy policy, in place since 1978, has been periodically revised to incorporate updated energy conservation, on-site and renewable generation goals, and reduce utility costs. The policy requirement to outperform the state’s Title 24 energy standards have promoted efficient buildings with reduced environmental impact, while allowing projects that reflect unique campus academic, geographic, and funding needs.

In addition, the existing policy contains physical plant management principles to promote utility conservation and model practices in CSU building and facilities operations, aligning with the governor’s Executive Orders S-12-04 and S-14-08 and resulting state issued Management Memos.

In September 2005, the trustees set systemwide goals as follows:

1) To reduce energy consumption by 15 percent from 2003-04 levels, to 73,300 BTU/GSF, by the end of 2009-10
2) To promoting energy independence and reducing procurement of electricity from the
electricity grid by increasing on-campus energy generation capacity from 26 to 50 megawatts by 2014.
3) To meet or exceed the state’s Renewable Portfolio Standard that sets a goal of procuring 20 percent of its electricity needs from renewable sources by 2010.
4) To design new buildings and major renovations to meet or exceed the minimum requirements of the (to be developed) CSU Sustainability Measurement System, patterned upon the U.S. Green Building Council’s LEED standards.

The CSU has made substantial progress on the goals established by the board in EO 987. However, due to the lack of capital outlay funding since 2008, the CSU has reduced its energy use intensity by only 10.5 percent, or to 77,100 BTU/GSF, as compared to the 15 percent goal.

Since the board approval of the 50 megawatt goal, the system increased self-generation capacity from 26 to 43.7 megawatts (MW). Renewable solar increased from 2 to 11.5 MW, surpassing the
goal of 10 MW. A goal of 40 MW was set for efficient self-generation, which has increased from 24 to 32.2 MW. The CSU procures 20 percent of its purchased electricity from renewable energy.

The CSU designed a sustainability measurement system similar to the US Green Building Council’s (USGBC) LEED standards, but modified to rate the campus master plan community rather than a standalone building. The CSU measurement system recognized the typical campus design in ways LEED did not, especially in regards to centralized heating and cooling. However, due to the preference of the campus community for participation in the LEED rating system, and in recognition of changes made to LEED to encourage energy efficiency and promote central plants, the proposed policy removes the requirement for a separate CSU measurement system.

*The CSU Commitment to Sustainability, 2011 Report* summarizes the accomplishments in sustainability across the system, resulting in national recognition of sustainability in the CSU. Seven Presidents have signed the American College and University President’s Climate Commitment which commits campuses to exert leadership to address climate change. In addition, ten campuses are participating in the Association for the Advancement of Sustainability in Higher Education Sustainability Tracking, Assessment and Rating System (STARS), a system to measure campus sustainability advancements in Education and Research; Planning, Administration and Engagement; and Operations.

**Need for Broader Policy**

As the primary educator of California’s workforce, and a significant business entity in local communities, the CSU is positioned to positively impact the future by strengthening its practices in sustainability. The vision is for the CSU to operate in an environmentally sound manner while educating a workforce capable of creating a more sustainable world.

The proposed policy encourages the incorporation of sustainable principles into the academic curriculum such that students can apply this knowledge to their selected field of interest. According to Next 10, a non-partisan research foundation, between 1995 and 2008, California’s green sector jobs saw growth nearly triple the overall job growth, with the CSU at the forefront of educating future environmental leaders. The proposed policy reflects the importance of matriculating students mindful of our impact on local and global environments.
The proposed revision is in alignment with the Academic Senate Resolution, Sustainability in the California State University (AS-2800-07/FGA/AA- May 10-11, 2007), which encourages CSU to instruct students concepts in sustainability, and develop environmentally, financially, and socially responsible campus operations.

The policy redefines the method of calculating on-site renewable and cogeneration energy resources. Instead of increasing the current goal based on installed capacity, the policy proposes that, by 2025, the system produces on-site a minimum of 50% of all electricity consumed, with at least 10% of electricity consumed coming from renewable sources. By reporting on-site generation progress on a proportional basis campuses can in part achieve the goal by reducing their energy consumption through energy efficiency.

Currently, the system reports producing 22% of total consumption on-site, with 1.5% of consumption produced from renewable sources. To achieve this goal would translate increasing on-site generation capacity to approximately 100 MW, including 45 MW of renewables.

The policy also directs campuses to encourage and promote alternative means of transportation and alternative fuels. Many campuses have already instituted programs and built infrastructure to support this goal. X campuses have installed electric vehicle charging stations. Many campuses have provided students with bus passes to encourage transit use, and defined bike lanes to for cyclist and pedestrian safety. The proposed policy would encourage campuses to expand and enhance these programs.

The proposed policy seeks to extend the state per-capita recycling goal and achieve zero waste by 2025. This would require campuses to consider the waste involved in many areas of operations, including procurement, construction, and food service, as well as educating students about what not
to bring to campus.

In addition, this policy seeks to promote sustainable practices across business units, enterprise operations and auxiliary entities that comprise the campus community. While energy efficiency and building operations are in board policy, broadening the sustainability principles to areas such as procurement, information technology, food service, parking and transportation recognizes that the entire campus contributes to the CSU’s environmental impact.

**Fiscal Impact**

The fiscal impact of this policy is difficult to estimate, due to the various actions a campus chooses to undertake. Utility cost reductions from business operational changes further complicate estimates. Campuses participating in the President’s Climate Commitment have estimated the per-report costs to track GHGs and prepare a transportation survey at $30,000 to $50,000.

To reduce GHGs back to 1990 levels by 2020 CSU must make significant investments, of which building energy efficiency will be among the largest. Based on the age of our facilities and the growth of deferred maintenance, many of our projects are expected to have 10-15 year paybacks. In addition to paying for upgraded energy efficient components, projects may also have added costs to replace entire systems due to age or obsolescence. However, CSU would have to bear these costs regardless, and efficient technologies may represent only a marginal cost. An estimated $150 million is needed to further improve our utility efficiency and reduce GHGs while continuing to serve the academic mission. Recognizing opportunities to combine critical repairs with energy efficient upgrades highlights the importance of plant administrators in identifying various funding sources and opportunities, and in piecing together support and capital funding to successfully complete efficiency projects.

In light of uncertain support and capital outlay funding, the policy sets systemwide goals while affording campuses latitude to implement programs and practices in support of sustainability and conservation. Several campuses have sustainability programs and staff, many of which, like energy efficiency, reduce operational expenses and pay for themselves over time. This policy will encourage campuses to work together, sharing resources and best practices to address common challenges, while remaining flexible enough to allow them to address their unique conditions.

**The following resolution is presented for approval:**

RESOLVED, by the Board of Trustees of the California State University, that campuses will seek to integrate sustainability into the academic curriculum, and pursue sustainable practices in university operations and enterprise services; and be it further

RESOLVED that the CSU will strive to reduce systemwide greenhouse gas emissions to 1990 levels by 2020, and achieve carbon neutrality by 2030; and be it further

RESOLVED that campuses will promote energy independence through increasing affordable on-site generation to at least 50 percent of total consumption, with at least 10 percent of consumption shall be from renewable energy resources by 2025; and be it further

RESOLVED, that campuses will encourage and promote the use of alternative transportation and/or alternate fuels; and be it further
RESOLVED that the campuses shall seek to reduce the solid waste disposal rate by 50 percent by 2016, and strive to achieve zero waste by 2025; and be it further

RESOLVED that CSU campuses will reduce domestic and irrigation water consumption by 10 percent, and develop a Storm Water Management Plan; and be it further

RESOLVED that each CSU campus will designate an energy/utilities manager with the responsibility and the authority for carrying out energy conservation and utilities management programs. The campus will also designate a sustainability coordinator with the responsibility and authority to advance sustainability on their campus. The Chancellor’s Office will have the responsibility to coordinate the individual campus programs into a systemwide program.

RESOLVED that the revised “Revised Policy on Energy Consumption, Sustainable Building Practices, and Physical Plant Management” in Agenda Item X of July 23, 2013 meeting of the Board of Trustees be adopted; and be it further

RESOLVED That the chancellor or his designee is authorized to take the necessary steps to implement the intent of this policy.
Executive Memorandum 11-017

February 23, 2011

From: Paul J. Zingg, President

Upon the recommendation of the Academic Senate I approve the formation of a Campus Sustainability Committee.

Rationale

In 2007 President Paul Zingg became one of the founding signatories of the American Colleges & University Presidents’ Climate Commitment (ACUPCC). This climate commitment is an outward expression of our campus’s leadership in charting a path toward a more sustainable campus community and our commitment to address climate change by reducing and ultimately neutralizing greenhouse gas emissions from campus and to accelerate research and educational efforts to equip society for a more sustainable future.

As a signatory of the ACUPCC, our institution is pledged to eliminate our campus’s collective contribution to climate change over time. This commitment includes establishing an institutional structure to oversee the development and implementation of a program to comply with this commitment. To fully integrate sustainability across campus departments, we propose the formation of a Campus Sustainability Committee (CSC).

Campus Sustainability Committee Role for CSU, Chico

The role of the Campus Sustainability Committee (CSC) is to serve in an advisory capacity to all campus departments, colleges, and other entities in an effort to advance environmental, social and economic sustainability at California State University, Chico.
The CSC would provide leadership in identifying mechanisms to integrate sustainability concepts into all core functions of the university. **The CSC will provide recommendations for implementing sustainability across the campus by constructing a sustainability plan addressing the following nine focus areas:**

1. Education
2. Transportation
3. Waste
4. Procurement
5. Food Services
6. Biotic Environment
7. Water
8. Energy
9. Built Environment

**Within each focus area the CSC will develop goals, actions, and timelines.** An initial assessment to establish benchmarks will be conducted across the focus areas to allow the campus to evaluate our progress.

Building a common vision is essential to expanding the integration of CSU, Chico’s 6th strategic priority into daily departmental operations. A periodic and comprehensive assessment will provide a platform on which to build. As departments reflect on assessment questions, they will be prompted to consider sustainability efforts in their current departmental operations and evaluate what future efforts may be feasible.
Context for Plan Development – CSUC Sustainability

Milestones

1996 Establishment of Associated Students Recycling Program and Coordinator
1998 Creation of AS Environmental Affairs Council & Environmental Action Resource Center
2000 Creation of Campus Conservation Committee (EM 00-065)
2001 Establishment of University Reserves System, BCEP & BCCER
2001 Establishment of Jack Rawlins Environmental Endowment & Professorship
2002 Institutional Commitment to Talloires Declaration
2005 First This Way to Sustainability Conference held at CSUC
2006 Establishment of Associated Students Sustainability Program, Coordinator & Fund
2006 Addition of Sustainability as 6th Strategic Priority in Campus Strategic Plan
2007 Establishment of Institute for Sustainable Development
2007 Institutional Commitment to American College & University Presidents’ Climate Commitment (ACUPCC)
2011 Creation of Campus Sustainability Committee (EM 11-017)
2011 Adoption of CSUC 2030 Climate Action Plan
2012 Creation of Energy & Utilities Committee and Sustainability Education & Research Committee (CSC Affiliates)
2012 CSUC named to Princeton Green Guide Honor Roll 2013
2013 Completion of AASHE Sustainability Tracking, Assessment & Rating System (STARS) Report – Silver Rating
2013 Creation of Sustainable Food Systems Committee (CSC Affiliate)
2013 CSUC named to Princeton Green Guide Honor Roll 2014
Framework for Plan Development & Implementation

Campus Sustainability Committee

Co-Chairs: Dr. Belle Wei, Provost and Vice President for Academic Affairs
Lori Hoffman, Vice President for Business & Finance

CSC Affiliate Committees

Campus Conservation Committee

Chair: Dale Wymore, Director, Business Services
Focal Areas: Waste, Procurement

Transportation Advisory Committee

Chair: Robyn Hearne, Chief, University Police Department
Focal Areas: Transportation

Energy & Utilities Committee

Chair: Marie Patterson, Manager of Utilities & Sustainability, FMS
Focal Areas: Energy, Water, Built Environment

Sustainability Education & Research Committee

Chair: Dr. Tim Sistrunk, Faculty, History Department
Focal Areas: Education, Biotic Environment

Sustainable Food Systems Committee

Chair: George Rankin, Director, Food Services
Focal Areas: Food Systems
Plan Components by Focal Area

For each Focal Area the Affiliate Committees will work to establish the following:

**2030 Vision** – Broad, long-term vision of what the campus looks like in terms of this Focal Area in the year 2030. This target date of 2030 coincides with the University’s Climate Action Plan goal of achieving climate neutrality (net zero emissions) by 2030.

**2020 Objectives** – Key midterm objectives to be achieved by 2020 in support of the 2030 Vision for each Focal Area. These Objectives will be developed in consideration of existing goals, commitments and regulations related to each Focal Area. This target date of 2020 coincides with the University’s Climate Action Plan interim goal of achieving 1990 emissions levels by 2020.

**Annual Goals** – To be updated by each Affiliate Committee in an annual work plan; short term, focused actions in support of the 2020 Objectives. These Annual Goals will be updated in consideration of each Committee’s annual metrics report and the near-term context for sustainability implementation on campus.

**Annual Reporting Metrics** – Set of metrics including all STARS credits, GHG Inventory input data, and other required reporting related to each Focal Area. These Annual Metrics will be reported on a fiscal year basis.
Proposed Timeline for Plan Development

September - October

CSC Affiliate Committees hold two meetings including discussion of CSP development, finalize draft Vision statements for associated Focal Area.

CSC meeting to review Vision statements for vetting at Workshop during CSD.

Sustainability Plan Development Workshop held in coordination with Campus Sustainability Day activities for campus community to provide input on Plan development. Workshop will be structured as one large forum that is broken out into working groups by Plan Focal Area, each led by an Affiliate Committee Chair.

November - January

Affiliate Committee Chairs work with ISD to organize feedback from workshop and goals/commitments outlined below to draft a set of Objectives and Goals for each Focal Area.

February - April

Affiliate Committees vet drafted Vision, Objectives and Goals for each Focal Area

CSC meeting to review drafted Visions, Objectives and Goals

ISD develops additional plan components, organizes Plan document

May

CSC review completed first draft of Campus Sustainability Plan
Existing Institutional Sustainability Goals, Commitments & Policies

The following pages include a summary of CSU, Chico’s existing institutional sustainability goals, commitments and policies – organized by Plan Focal Area and by Affiliate Committee association. These goals, commitments and policies were excerpted for inclusion in this document from the following Plans, Commitments and Policies:

CSU, Chico Executive Memorandum 00-065 (Campus Conservation Committee – 2000)

Talloires Declaration (Signatory in 2002)

CSU, Chico Campus Strategic Plan (2006)


American College & University Presidents’ Climate Commitment (Signatory in 2007)

CSU, Chico Transportation Demand Management Plan (2009)

CSU, Chico Executive Memorandum 11-017 (Campus Sustainability Committee – 2011)

CSU, Chico 2030 Climate Action Plan (2011)

CSU, Chico Ecological Reserves Management Plan (2011)
Campus Sustainability Committee

(Institutional Sustainability)

Increase Awareness of Environmentally Sustainable Development.
Talloires Declaration 2002

Practice Institutional Ecology.
Talloires Declaration 2002

Create an Institutional Culture of Sustainability.
Talloires Declaration 2002

Involve all Stakeholders (in Sustainable Development).
Talloires Declaration 2002

Collaborate for Interdisciplinary Approaches (to Sustainable Development).
Talloires Declaration 2002

Broaden Service and Outreach (Related to Sustainability) Nationally and Internationally.
Talloires Declaration 2002

Maintain the Movement (of Higher Education Sustainability).
Talloires Declaration 2002

Monitor our diverse sustainability efforts through outcomes-based assessment, nothing successes as well as opportunities for improvement.
Strategic Plan (Pr 6) 2006

Undertake and maintain an environmental focus in our advancement efforts, seeking to tell our story about an environmental orientation in our daily campus life and to enlist partners in our agenda for distinction in these matters.
Strategic Plan (Pr 6) 2006

Introduce outside experts and mentors on sustainability to the campus, while seeking to deliver our own powerful story of environmental engagement.
Strategic Plan (Pr 6) 2006

Seek partners throughout the North State who share our values and who are willing to share their expertise.
Strategic Plan (Pr 6) 2006
The role of the CSC is to serve in an advisory capacity to all campus departments, colleges, and other entities in an effort to advance environmental, social, and economic sustainability at CSU, Chico. The CSC will provide leadership in identifying mechanisms to integrate sustainability concepts into all core functions of the university.

The CSC will provide recommendations for implementing sustainability across the campus by constructing a sustainability plan addressing the following nine focus areas: Education, Transportation, Waste, Procurement, Food Services, Biotic Environment, Water, Energy, and Built Environment. Within each focus area the CSC will develop goals, actions, and timelines.

The CSC will conduct an initial assessment across the focus areas to establish benchmarks and to allow the campus to evaluate our progress (STARS).

(Climate Action)

Initiate the development of a comprehensive plan (CAP) to achieve climate neutrality as soon as possible.

Create Institutional structures to guide the development and implementation of the (CAP).

Complete a comprehensive inventory of all greenhouse gas emissions (including emissions from electricity, heating, commuting, and air travel) and update the inventory every other year thereafter.

Develop an institutional action plan for becoming climate neutral, including: a target neutrality date, interim targets for goals and actions, actions to make climate neutrality and sustainability part of the curriculum, actions to expand research to achieve neutrality, mechanisms for tracking progress.
Initiate two of seven tangible actions to reduce GHG emissions while the plan is being developed. (LEED equivalency policy for all new buildings. Encourage use of / provide access to public transportation for all S, S, F).

**ACUPCC** 2007

Make the (CAP), inventories, and periodic progress reports publicly available through ACUPCC reporting system.

**ACUPCC** 2007

Reduce aggregate GHG emissions levels back to 1990 levels, or 40% below the BAU scenario, by 2020.

**CAP (p 13)** 2011

Develop a CAP Implementation Plan for the years 2020-2030 outlining steps to reduce GHG emissions from 1990 levels to net neutrality.

**CAP (p 19)** 2011

Reduce aggregate GHG emissions levels to net neutrality by 2030.

**CAP (p 19)** 2011

**Associated STARS Reporting Categories**

OP-Climate; PAE-Coordination & Planning; PAE-Diversity & Affordability; PAE-Human Resources; PAE-Investment; PAE-Public Engagement; IN-Innovation
Campus Conservation Committee

Waste

The university will develop an integrated waste management plan by July 1, 2000. AB 75 1999

The university will divert at least 25% of solid waste from landfills by January 1, 2002 and 50% by January 1, 2004. AB 75 1999

The CCC will develop a waste management plan pursuant to AB 75. The plan will be reviewed on an annual basis, will quantify the amount of solid waste currently being landfilled and identify strategies to reduce this waste stream to meet (or exceed where feasible) the 25 and 50 percent reduction targets. EM 00-065 2000

The CCC will update the waste reduction plan annually. The CCC will also develop and submit an annual report, including measures implemented and additional proposed, to the cabinet. EM 00-065 2000

The CCC will develop an educational program to promote campus waste reduction activities; it will be designed to inform and educate faculty, staff, and students in various campus waste reduction measures. The CCC will seek to expand existing recycling programs through the dissemination of information to campus personnel. The CCC will also seek input from other campus entities on ways to expand and improve on waste reduction efforts. EM 00-065 2000

Procurement

None Currently Existing

Associated STARS Reporting Categories

OP-Waste; OP-Procurement
Transportation Advisory Committee

**Transportation**

Reduce aggregate GHG emissions levels from the 2020 BAU scenario by 8% through transportation sector actions. CAP (p 13) 2011

Reduce single-occupancy vehicle traffic to campus from 57% of commute mode-split in 2008 to 36% by 2020 for all students, staff, and faculty. CAP (p 17) 2011

Promote virtual meetings and conferences in an effort to reduce university-sponsored travel. CAP (p 18) 2011

Implement Preferential Car-Free Housing. TDM (p 70) 2009

Relocate Long-Term Parking for Campus Housing to Remote Location. TDM (p 70) 2009

Implement Flexible Work Schedule / Telecommute Policy. TDM (p 70) 2009

Implement Ridesharing Program. TDM (p 70) 2009

Establish Preferential Carpool Parking. TDM (p 70) 2009

Adjust Class Schedules to Reduce Peak Traffic Demand. TDM (p 70) 2009

Improve Pedestrian and Bicycle Circulation. TDM (p 70) 2009

Enhance Bicycle Parking. TDM (p 70) 2009

Expand Bicycle Support Services. TDM (p 70) 2009

Establish Campus Transportation Coordinator Position. TDM (p 70) 2009

Increase Marketing of Transportation Options. TDM (p 70) 2009

Establish Guaranteed Ride Home Program. TDM (p 70) 2009

Enhance Transit Service. TDM (p 70) 2009

Implement Carsharing Program. TDM (p 70) 2009

Establish Geographic Parking Permit Sales Restriction. TDM (p 70) 2009
Associated STARS Reporting Categories

OP-Transportation

Energy & Utilities Committee

Energy

Reduce aggregate GHG emissions levels from the 2020 BAU scenario by 32% through energy sector actions. CAP (p 13) 2011 In Progress

Select a more climate-neutral grid mix and electrical power provider (than APS) to meet GHG reductions. CAP (p 14) 2011 Completed

Retrofit lighting systems in 15 campus buildings identified in IGA. CAP (p 16) 2011 In Progress

Upgrade HVAC, boiler-chiller, air-handler efficiency in PAC, MLIB, and Holt. CAP (p 16) 2011 In Progress

Retrofit domestic water booster pump in housing. CAP (p 16) 2011 ?

Increase install of PowerSave power management software from 690 to 2,767 licenses. CAP (p 17) 2011 Andrea?

Convert a total of 170 physical servers to virtual servers. CAP (p 20) 2011 Andrea?

Install real-time metering across all campus facilities, utilize with incentives and education to reduce per-capita energy consumption by 20% from BAU scenario. This reduction will be in addition to those realized by other EE projects. CAP (p 20) 2011 In Progress

Continue to implement measures identified by the IGA as feasible. CAP (p 20) 2011 In Progress

Restrict the usage of buildings on evenings and weekends. CAP (p 20) 2011 In Progress
ENERGY CONSERVATION GOAL: Each campus will continue to reduce energy consumption as established previously by Executive Order 917. The five-year goal of reducing energy consumption by 15% will be evaluated at the end of fiscal year 09/10 and reported to the trustees in July 2011. The baseline for this goal is fiscal year 03/04, and is measured by BTU/GSF (British Thermal Unit per gross square foot) for both state and non-state supported areas of the campuses. The report will also assess the campuses’ ability to achieve additional energy conservation.

ENERGY INDEPENDENCE GOAL: Campuses will pursue cost effective renewable generation in order to increase production.

ENERGY CONSERVATION POLICY: (V.1.1 - V.1.12)

PHYSICAL PLANT MANAGEMENT POLICY: (V.3.1 - V.3.18 ; V.3.20)

Water

All CSU campuses will take every necessary step to conserve water resources, including such steps as installing controls to optimize irrigation water, reducing water usage in restrooms and showers, and promoting the use of reclaimed water. The use of decorative fountains should be minimized. In the event of a declaration of drought, the CSU will cooperate with the state, city, and county governments to the greatest extent possible to effect additional water conservation. (78-; 88-Adopt; 01-No Change; 04-No Change)

Built Environment

Develop all campus planning within the context of sustainability and encourage resource conservation and recycling.

SUSTAINABLE BUILDING PRACTICES POLICY: (V.2.1 - V.2.8)
**Associated STARS Reporting Categories**

OP-Buildings; OP-Energy; OP-Grounds; OP-Water

**Sustainability Education & Research Committee**

**Education**

Educate for Environmentally Responsible Citizenship.  
Talloires Declaration  
2002

Foster Environmental Literacy for All.  
Talloires Declaration  
2002

Enhance Capacity of Primary and Secondary Schools (to Teach Sustainability).  
Talloires Declaration  
2002

Emphasize the need for all departments and programs to address issues of sustainability.  
Strategic Plan (Pr 6)  
2006

Expand our research efforts through the work of the Bidwell Environmental Institute.  
Strategic Plan (Pr 6)  
2006

Host an annual or biannual conference on sustainability focusing on sustainability and conservation, business practices, civic engagement, social policy, and the curriculum.  
Strategic Plan (Pr 6)  
2006

**Biotic Environment**

Develop further the activities and impact of the Bidwell Environmental Institute, the Preserves, and other programs that underscore environmental engagements and commitments.  
Strategic Plan (Pr 4)  
2006

Establish a natural history museum to foster science education, environmental awareness, and community pride.  
Strategic Plan (Pr 4)  
2006

Ensure the… wise stewardship of all resources.  
Strategic Plan (Pr 5)  
2006

Strengthen our institutional reputation and record regarding environmental stewardship.  
Strategic Plan (Pr 6)  
2006
Develop a strong endowment devoted to expanding and managing our current system of preserves, while expanding our capacity to teach, learn, and serve. Strategic Plan (Pr 6) 2006

Connect with the local community and civic organizations and agencies to educate and assist in the preservation of natural resources, and help protect the quality of life that has drawn people to our community. Strategic Plan (Pr 6) 2006

Connect the campus and the ecological reserves to Native American practices and values. Strategic Plan (Pr 6) 2006

CSU, CHICO ECOLOGICAL RESERVES MANAGEMENT PLAN (IV.A – IV.F) ERMP 2011

**Associated STARS Reporting Categories**

ER-Co-Curricular Education; ER-Curriculum; ER-Research

**Sustainable Food Systems Committee**

**Food Services**

None Currently Existing

**Associated STARS Reporting Categories**

OP-Dining Services