Use of Collaborative Planning to Create Climate Action Plan

CHESC, July 9 & 10, 2019
Speakers

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Associate Principal / Vice President of Sustainability  
HMC Architects  
Conducted carbon footprinting of campus emissions, developed campus building sustainability guidelines and coordinated CAP process for Mt. SAC

**Chisato Uyeki**  
Academic Senate President, Librarian  
Mt. San Antonio College  
Co-authored and facilitated development of first campus Climate Action Plan and founding member of Climate Commitment Implementation Committee.
The purpose of the Climate Action Plan (CAP) is to... guide the campus towards becoming a more sustainable institution, and to prepare students to engage in finding solutions to our environmental challenges.

The Plan articulates the vision, goals, and strategies which will move Mt. SAC to become a sustainable campus with net-zero carbon emissions and has been developed in coordination with campus stakeholders to ensure that it meets the various needs of the campus.
Foundation: Sanctuary, Curriculum, & Committees

- Strong support for environmental sustainability from faculty and students
  1964: Wildlife Sanctuary
  1989: EAGLE Student Club
  1990s: Earth Day events beginning
  2017: Environmental Studies

- Student assistants & internships
- Sustainability Committee
- Climate Commitment Implementation Committee

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2013 Sustainability Cmt presses for signage

2014 Academic Senate Resolution

2014 President Signs ACUPCC

2015 CCIC Established

2015 1st GHGe Inventory

16-17 Senate TF Curriculum PD Community

Fall 15 start Faculty Workshops

2017 President’s Student Sustainability Awards

17-18 Conferences, Survey, Eco Charrette, focus groups, Reviews

2018 Approved & Published

"cookie" by nitot

Path: Circuitous & Inclusive

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CAP Organization

Mt. SAC CCIC:
Institutionalization, Curriculum, Practices and Policies

HMC Architects

P2S:
scope 1 + scope 2

Psomas:
scope 3 transportation

HMC Sustainability Studio:
sustainable building practices + waste

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Cross Functional Input

Students, Faculty, Staff and Consultants
Task Force
2 conferences
1 Eco Charrett
A day of focus groups (local expert input)
Peer Reviewers
Readers
Institutionalization: Integrated into Campus Planning

Educational & Facilities Master Plan:
• Natural connection between EFMP process and parallel CAP process
• Synergies between Educational, Facilities, and CAP were inherent
• Built strong relationships & positions for advocacy
• CAP benefited from EFMP data gathering & analysis

Strategic Plan:
• Proposed additions to the strategic plan to support climate actions were made- but have not yet been adopted
• Unknowingly did not follow the established institutional process.
Incredibly motivated students energized, motivated, and contributed throughout:

- Ongoing committee involvement
- Associated Students (student government) Environmental Senator
- Student assistants & internships
- Developed and implemented innovative project ideas
- Existing structure: clubs, student government
- Folded into new components: CCIC, Emissions Inventory, Readers, Reviewers
Faculty Input and Involvement

- Ongoing
- Professional Development & Information Gathering
- Added energy
- Helped us anticipate & obviate obstacles
- Multiple opportunities for various types of contribution

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Collaborative Spirit

- Solution-focused strategic approach
- Utilized both outside experts and on-campus experts
- Partnered with faculty, facilities staff, students, and consultants
- Consulted with other staff and faculty from colleges and universities, Second Nature staff, and other consultants
- Faculty-led
  - Worked cross-disciplines on campus
  - Grounded in the educational mission of the college
  - Institutional knowledge guided development
  - Utilized multiple ways of collaborating

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Gathering Data
Point of Contact

- Mt. SAC CCC: Sustainability Curriculum Practices and Policies
- HMC Architects
- P2S: scope 1 + scope 2
- Psomas: scope 3 transportation
- HMC Sustainability Studio: sustainable building practices + waste

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Understanding Where We Stand

**SCOPE 1: DIRECT EMISSIONS**
- Emissions produced on campus
- Natural gas combusted on campus
- Campus fleet
- Agriculture
- Refrigerants

**SCOPE 2: INDIRECT EMISSIONS**
- Purchased utilities for the campus required for campus operation

**SCOPE 3: INDUCED EMISSIONS**
- Sources not owned or controlled by the campus
- Waste & transportation
- Student, faculty, and staff transportation
Addressing Transportation

2016 SUBCATEGORY PIE CHART

- Student Commuting: 43%
- Purchased Electricity: 16%
- Other On-Campus Stationary: 26%
- Solid Waste: 12%
- Scope 2 T&D Losses: 1%

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Addressing Transportation: the Survey

Current Students
We want you to succeed. Explore the numerous resources available to support you academically and personally, from tutoring and counseling to child care and health services.

Services for Students
We offer a number of support programs for students in all different types of situations. Whether you’re a veteran, a foster youth, an international student or a

Student Activities
You can play a full college experience at Mt. San Antonio College. Get involved to ensure you get the most out of your time at Mt. SAC!

Student Health & Recreation
Health is crucial to your success in college, so Mt. SAC has a clinic and a gym on campus to help support you.

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Identifying Attributes: On Site Agriculture Program

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Identifying Attributes: On Site Sanctuary
Identifying Attributes: Unique Environmental Profile
Identifying Positive Attributes: Sustainable Building Program

• The building sector is responsible for 39% of CO2 emitted in the United States per year.

• Higher education facilities represent the second-highest expense area after personnel, thus is pivotal to the goal of reducing CO2 emissions.

• Over the past ten years, Mt. SAC has solidified its dedication to a green campus.

• Student Success Center, LEED Gold target.
Strengths

- Cross-discipline team
- Identified strengths & worked to them
- Strategic thinking - anticipated obstacles and built in solutions
- Vision with openness to creative solutions
- Parallel CAP and Educational & Master Planning processes
- Identified champions on campus
- Utilized knowledge of campus processes and structures to ensure CAP got through the right channels
- Shared work as we went, including with our hardest critics
- Expert input (internal and external)
Lessons Learned

- Trust allows for easy collaboration
- Have vision but maintain openness to creative solutions
- Gather and maintain broad support (dedicate someone to this job)
- Be as inclusive and allow for a broad based stakeholders group
- Plan for the long haul
- Implementation is the real challenge
Institutionalization: suggested strategies

- Adopt District Sustainability Policies and Procedures
- Adopt an Idling Policy
- Create a Campus Bike Policy and Bicycle Plan
- Establish a Campus Landscape Advisory Committee and Participate in the Tree Campus USA Program
- Endorse a Statement that Mt. SAC will not Adopt New Sources of Emissions
- Provide Local Accounting for Externalities
- Integrate Climate Action Planning into Institutional Planning and the Educational and Facilities Master Plan
- Perform Sustainability Assessments in All Units and Departments
- Establish Sustainable Purchasing Policies
- Establish Sustainable Food Policies
- Consider Funding to Support Sustainability Activities
- Develop a Policy of Sustainability in Investments
- Build Sustainability into Existing Student Life Structures
- Establish a Sustainability Center
- Provide Adequate Staffing
- Fund and Appoint a Sustainability Director
- Allocate Faculty Release Time for a Reassigned Position of Sustainability Coordinator

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New Developments, implementation movement

- **Hiring Director of Facilities Planning and Sustainability**
- Agreement to provide reassigned time for **Faculty Sustainability Coordinator**
- **Sustainability Budget** includes funds for positions, conferences, student internships
- Set seat for faculty member of Climate Commitment Implementation Committee on **Facilities Advisory Committee** (in addition to 2 at-large faculty seats)
CAP Recommendations to the Board

- Board of Trustees establish a district Board Policy (BP) on Sustainability.

- Additional Board Policies should align with standards for College operations as articulated in the CAP.

- Work with the Sustainability Director in exploring various funding possibilities.

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“An Imperative? That seems like a strikingly strong statement to make for a community college. In fact, there are many reasons that climate action is both an imperative for Mt. SAC and a very appropriate application of the college’s commitment to our mission.

Knowledge, skills, and abilities regarding the environment are essential for student learning across almost every area of our curriculum. Environmental issues are hotly debated in our current race to select the next Governor of California—a topic for political science and economics. Architectural design has moved from environmental sustainability as a best practice to an essential feature both for compliance and for cost effectiveness. Solutions to water and air pollution require both theory and practice of the sciences. Wildfire, floods, and other climate related disasters influence practices from prevention measures to incident response to insurance rates—raising the bar for training everyone from inspectors to first responders to social workers to insurance agents. Mt. SAC must have not only specific programs in Climate Action but must integrate its impacts throughout our curriculum.

As a community college, Mt. SAC not only must teach sustainability but must be an active demonstration site for its implementation. Our planners, staff, and students are employed daily in water conservation, energy efficiency, sustainable building design, environmentally friendly maintenance practices, and pollution reducing facilities such as electric vehicle charging stations and on-site clean energy generation. By the way, the curriculum reflects these active learning opportunities by employing student interns on almost all the facets of campus sustainability.

The value of education is not just based on providing students with employable skills but also in assuring that our graduates are responsible citizens of society. Weaving this social awareness of the environment into our classrooms and laboratories and into our college operations is our responsibility as well. The future of our planet—and the quality of life we experience—require both an informed and motivated electorate to push public policy and a cadre of citizens who live their day-to-day lives utilizing practices that conserve and protect our environment. “Reduce, Reuse, Recycle” is not just a slogan, it is a way of life. The urgency of Climate Action cannot be understated—heat waves, fires, floods, hurricanes are in the news daily. Taking action now is imperative. And so is it imperative that Mt. SAC take action in our teaching, in our business practices, and in our social advocacy. This Climate Action Plan is our template and our commitment to do so.”

WILLIAM T. SCROGGINS, PH.D.
President and CEO
August 2019

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