**Chancellor’s Sustainability Committee Meeting Agenda**

**Friday April 15th, 2016 10:00-11:30**

**5824 Ellison Hall**

**Attendance:** Mo Lovegreen (staff), Jewel Snavely (staff), David Austin, Brit Ortiz, Alex Regan, Bill Shelor (advisor), Marc fisher (Co-Chair), Mark Brzezinski, Bruce Tiffney (Co-Chair), Maximilien stiefel

**Absent Committee Members:**

Igor Mezic, Alan Heeger (advisor), Daniel Charette, Rachel Segalman (advisor), Roland Geyer, Denise Stephens, Constance Penley, John Foran, Mel Manalis, Samantha Rubin, Victoria Mansfield

**Other:**

Katie Maynard, Kristen Payne, Brandon Kaysen, Hyemin Park, Owen Watson, Matt O’Carroll, Jordan Sager, Jessica Schmitt, Sarah Siedschlag, Andrew Riley

**Presentations and discussion (10:05-11:00):**

1. PACES ---

Paces is a student run green office certification program, they assess departments through multiple topic areas and work with them to identify areas they can improve. The three areas that departments usually don’t know resources exist are, staff training, department purchasing, and campus partnerships.

Areas of success

* Sedgewick
	+ Developed a sustainable food guide
	+ Helped them to submit a TGIF grant to for an earth cube so that they can do onsite composting.
	+ We are working to get sustainable food truck on their catering list
* re-assessment of UCEN
	+ Recommended they apply window tint to decrease heat
	+ Partnered with matt O’Carroll’s intern to create better waste signage.
* Office of student life
	+ Creating events guides for student orgs

PACES also gives support to other sustainability initiatives and works to increase awareness departments have of campus resources:

* Other Sustainability initiatives PACES has supported:
	+ Helped with the CCC
	+ Publicized CycleMAYnia
* Campus Resources PACES promotes:
	+ Eco clamshells
	+ AS recycling
	+ Department of worms
	+ Zero waste committee

Committee Recommendation -

* I would suggest you approach chemical engineering, Rachel Segalman, the chair is really receptive to sustainability.
* Interested in sustainable food guide – a lot of organizations on campus are running their own events and this guide would be really.
1. Bren Group Project final presentation -

UCSB is looking at a 45 MT co2e reduction needed to achieve carbon neutrality.

We developed a 4-step process which focuses on the key topics UCSB must consider as it strives to achieve carbon neutrality by 2025. The 5 technologies we looked at in step 1 (reduce energy demand) are hot water loop, LED, lab retrofits, HVAC retrofits, and Monitoring-Based Commissioning (MBCx)

The second step is to procure renewable energy, we estimated that the campus can expand onsite solar roughly 18%. The campus could drop emissions through the 6 strategies alone down to 16,000 CO2e. This would take a $54.6 Million investment. If we were to aggregate all of these projects we are looking at a 5 year payback and would reduce the utility budget for the campus by about 6 million annually.

Green Revolving Fund -

Over the last month we have taken a dive into the green revolving fund and have identified the following potential seed funding options:

* Utilities surplus
* state budget allocation
* green donors

We have optimized the investment schedule to minimize the annual capital investment in order to complete all identified projects before 2025.

The identified measures can achieve 62% reduction in emissions, this means we still have 16,000 MT that will need to be offset. The campus could use any of the following strategies to offset the remaining emissions:

* Carbon offsets – 24K to 320K annually
* Green rates (SCE just announced green rates- Green rates – 4 to 6 cent increase. 1.5 m to 2.3 million annually, not an option they would recommend.
* CCA would also be a viable option however we haven’t assessed it since we do not have available data on cost options.
* Renewable Energy Credits (RECS) - 28K to 48K annually

Constraints –

* Time and labor
* Institutional debt limit
* Solar capacity
* Offset price uncertainty
* Creating administrative momentum
* Continual efforts – social laboratory

Discussion

* Flexible planning may be needed to perhaps extend to 2030, which would give us time to work on additional projects rather than the offsets.
* 2030 may be a more realistic goal.
* Like the notion of donor contributions, it would be great if you could show that the investment is as good or better than the market?
	+ Average return on investment is about 28%
	+ Is their model for investment where they get money back?
	+ Henley gift uses a model similar, it is structured like a charitable remainder trust. You could potentially set up a GRF fund like this however it would be less beneficial, if you have to give a percent back instead of reinvesting it in efficiency.
* Did you look at scope of efficiency projects now, what currently happens to savings?
	+ Investment in energy efficiency have been sporadic, 2006 – 2009 projects were financed by debt and debt was held by UCOP but in 2013 UCOP said we are no longer holding that debt. This put an end to these investments. Fortunately by 2013 the Utilities budget was no longer running in red and we have been investing the surplus into energy efficiency projects. Being in the black is really new for us, Enron and sewer rebuild really impacted the utilities budget. Since this is really new, the budget office is taking a cautious approach. Also money now comes in per student not per sq. ft. and now we have decide where the best use of this money is.
	+ What is the right % to hold in the utility budget for safety?
	+ This is a question we should pose to the budget Office.
1. 10 min after meeting start times ---- to allow for bike transport…

This came up though gaucho U. If you can start meeting at 10 past the hour it would be much easier to get to the meeting by bike.

Announcements (11:00-11:05):

1. CHESC registration --- Registration is now open and there is an early bird discount.
2. Student Research openings – opening three undergraduate create your own research internships, 2 opening graduate research positions, 3 food fellow internship, and one new CNI fellow.
3. AASHE Sustainability Awards – Call for Nominations - Nominations are due June 1st if anyone is interested in submitting.
4. Matt and Janet visit – they will be here at our May CSC meeting if anyone has any topics they would like them to present on? David suggested they clarify roles of all the different organizations
5. Final Charrette – We had our last charrette, there weren’t any conclusions that came out of the charrette but it will lead to further discussion. We are thrilled that David and Chuck showed up and contributed to the conversation

Minutes (11:05-11:10):

1. Review meeting min. from March – David motion, mark second, approved.

Committee Reports (11:10-11:25):

1. Academic Senate Sustainability Work Group\*

We are working on language for various internships forthcoming and for the faculty champion. A group of faculty are also lunching a new environmental justice minor.

1. Coordination (Climate/Food)

We received grant from Tom Steyer for work on the UC carbon neutrality initiative. He gave us enough money for two projects. We put out a call for proposals for the projects, they will be multi campus initiatives. Funding will be used mostly for convening people and internships.

New task force at UCOP to look at ways that carbon neutrality can be more integrated into the campus budgets. Will be mostly senior administrations. Carbon tax or pricing is a piece of what this group is working on. High impact high risk so there is some sensitivity.

1. Transportation --- CycleMaynia events
2. ECOalition\* -- meeting coming up in May.
3. Water – on water front going forth with cooling tower at CNSI for recycled water. Secured funding for TGIF and put in an extension request because we need to complete the recycled water line extension during the summer when we can close the road. We are finishing the conversion of potable to recycled at HSSB, looking at Pearl chase and san Ynez as the next site.
4. Waste – The CEC has reached out to us regarding the Tajiguas Landfill, they are hesitant to support the project and want minimum quality standards.
5. Energy & Climate\* --- Big thing we are working on is updating the climate action plan. The first plan that appreciates carbon neutrality.