**Chancellor’s Sustainability Committee Meeting Agenda**

**Monday Dec 7th, 2015 3:00-4:30 CSC Meeting, 5123 Cheadle Hall**

**Attendance:**

**Committee Members:**

Mark Brzezinski, Mo Lovegreen, Roland Geyer, Alex Regan, Denise Stephens, Brit Ortiz, Jewel Snavely (Staff), Bruce Tiffney, Bill Shelor (advisor), Constance Penley

**Absent Committee Members:**

John Foran, Igor Mezic, Maximilien stiefel, Mel Manalis, Alan Heeger (advisor), Marc Fisher, David Austin, Samantha Rubin, Gabriela d’Souza, Daniel Charette, Rachel Segalman, Samantha Rubin

**Other:** Katie Maynard, Henry Bart, Hye Min Park, Melissa Maggass

Owen Watson, Brandon Kaysen, Andrew Chen, Shelly Leachman

**Announcements (3:05-3:15):**

a)    Cool Campus Challenge status – currently fifth place

b)   Bill Gates’ Investment Commitment in Renewable Energy -

UC as a whole is joining a coalition that will invest in solving climate problem. UC has committed an investment of 1 Billion. – Concerns were raised about whether this was a shared governance decision. The committee decided that this needs to be looked into it further.

**c)    Food Summit January 22, 2016**

The Food Summit, organized by students across the state, will be held at UCI on January 22nd, 2016. Registration is $45 for staff and faculty and $15 for students.

Question: Is anyone working to promote Calfresh on campus?

The AS food bank and the financial aid office are working closely on an outreach campaign, and the financial aid office just hired two students to help with outreach.

**d)    Winter Quarter Sustainability Forum - Mo Lovegreen**

Date isn’t locked down yet but we have MTD presenting on their strategic plan and Goleta presenting on their bike plan.

**e)    2014 Emissions Verified - Jordan Sager**

**Updates (3:15 --3:25):**

a)    COP21 update – Mo Lovegreen

We have asked John Foran to present on the COP21 talks at our next meeting. John Foran is maintaining a blog that I will send everyone a link to.

**b)    Student Farm update – Katie Maynard**

Edible campus project presented to the small projects committee, they gave us an initial go ahead on the location and initial approval for layout of the farm. We are working on pricing and grant writing now.

**c)    Faculty Co-Leaders Workshop –Katie Maynard**

We are leading a workshop for the UC system this weekend on infusing sustainability into curriculum. Two of our faculty will be leading the workshop.

**Minutes (3:25-3:30):**

a)    Review meeting min. from November (Bruce)
---- approved

**Presentations and discussion (3:30-4:20):**

a) Bren CarbNEWT Group Project - Bren group (30 min)

Achieving carbon neutrality at UCSB BY 2025: Critical Analysis of technological and financial strategies.

Categories: reduce energy demand, financial planning, carbon offsets, and renewable energy. We are developing life cycle cost tool, which we will hand over to UCSB to assess projects.

Objectives: assess technological feasibility, developed a financial model, and evaluate the impact of local and federal policies.

Working now on estimating the optimal on-site and off-site investments in collaboration with other campuses and UCOP

GHG outlook (BAU) – based on renewable portfolio stands, new bills, and growth.

Demand reduction strategies we are taking an in depth look at

1. Smart Lighting (LED +controls)
2. Campus hot water loop & electrification of heating
3. Monitoring based commissioning

Smart lighting results:

* 22% electricity is associated with lighting
* Smart could save 80% of that if we use best practices.

Campus hot water loop

* We will need to update boilers on campus to comply with SB air quality 361.

MBCx

* Optimizing systems already in place would save an estimated 30% of our natural gas use.

Smart Lighting LCA

* Simple payback is 19 years but we use a different metric. We are proposing life cycle cost assessment because initial costs are deceiving. Life cycle cost isn’t new, it’s been around for 20 years and mandated at the federal level. Over the summer we developed a life cycle cost tool for UCSB. We ran life cycle costs for light in 8 buildings at UCSB and found that:
	+ Year 10 we break even
	+ Net saving of 18 million dollars and saving of 81,000 metric tons of CO2e.

Financial challenges ---

* Simple payback model
	+ strategy/solution: LCA tool
* Budget Isolation
	+ o strategy/solution: restructuring/ creating a green revolving fund
* Debt capacity
	+ We are exploring other possible funding mechanisms such as lease Revenue bonds

Procurement of Renewables

* On-campus generation – we only have capacity to expand solar on campus about 3%
* Clean energy and pollution reductions (SB 350)
* Direct access (SB 286)
* Community solar/ community choice aggregation

Offsets

* RECS
* Carbon offsets
	+ AB32 standards
	+ UCOP offset taskforce – hoping to help set standards

c)    Second Nature Resiliency Pledge – Rob Holland (10 min)

What Resiliency is: “Resiliency is the ability of a system to survive disruption and to anticipate, adapt, and flourish in the face of change.”

What the Resiliency pledge requires:

1. Institutional structures to guide the development and implementation of the Plan
2. A joint campus-community task force
3. An initial campus-community resilience assessment including initial indicators and current vulnerability
4. A target date by which defined thresholds of resilience will be met
5. Interim target dates for meeting milestones that will lead to increasing resilience
6. Mechanisms and indicators for tracking progress
7. Actions to make resilience a part of the curriculum and other educational experiences for all students
8. Actions to expand research in resilience

Discussion: Could this be accomplished through existing resources or would we need additional resources? Would we need a resiliency committee to explore whether we should send a recommendation up to the chancellor to take the resiliency pledge? How redundant is this to projects already going on?

A lot of efforts are already under way on our campus but they are all acquiring in separate siloes

* Resiliency is already a part of the rubric of sustainability
* Adaptability connects to business and operational continuity plan

Next steps:

* Assess what components of the resiliency pledge UCSB is already doing and come back to the committee in Winter Quarter.

**b)    Campus Sustainability Plan - Mo Lovegreen (10 min)**

**Action Items**

**Committee Reports (4:20-4:30):**

1. Academic Senate Sustainability Work Group\*

Faculty co-leaders workshop, GE requirement – launched our GE petition, working on draft endorsement letters.

1. Coordination (Climate/Food)

The deadline to apply for funding projects through the GCLC is December 14th. We will be applying funding for a sustainability literacy assessment for climate and food, and for expanding literacy into orientation programs.

c)    Energy\*

d)    Transportation

e)    Ecoalition

f)     Water

g)    Waste

**Astro bright paper** ------ We had a discussion with the new print shop. They had a stock of Astro-bright paper they were using and were unaware that it rendered readers unrecyclable. The faculty are the driving force for the use of Astro bright. Could we ask our colleagues to give up Astro-bright? Would this committee be able to recommend to the faculty that they don’t use this and instead use the alternatives?

Discussion:

Is the use of Astro bright the only problem or are there other recommendations we could make? What about the plastic covers? What are all things that are problematic? What about the use of speckled paper that isn’t as white and doesn’t use as much bleach?

Suggestions:

* Make a poster which states the ENVS impact—how to guide for choosing must ENVS friendly reader.
* Incentivize gaucho space reader

We will come back to the committee with greater in depth thinking ----

ECOalition – Andy, ECOalition coordinator… coalition of environmental groups on campus. First meeting had the highest participation on campus.

We are working on endorsements for GE and sustainability office. Next town hall meeting is on Feb 23rd.

a)    Built Environment/Labs Shops & Studios\*

Finally giving away the single pass cooling systems purchased.

About to launch lab composting program.

Any further development with USDA?

The conversation is continuing but at this point I do not have an update.