**Energy Conservation & Building Standards**

*In attendance: Claudia Szczepaniak, Dhara Patel, Fred Hahn, Jessica Tran, Karl Helmink, Marian Huhman, Monica Chhatwani, Nishant Makhijani*

1. Reports from Monica and Dhara from the Green Building conference in Baltimore

* Monica was impressed with Google’s presentation on their sustainability efforts. Showed a survey they do to assess employee’s conservation behaviors, which seems to be a motivator for people doing more conservation behaviors. Monica will put the survey on our web portal for us to consider instituting something similar.
* Questions were raised about using building-level energy monitoring for major buildings on campus and display of information using any existing LCD screens in buildings
  + Lucid is one example: [https://lucidconnects.com](https://urldefense.proofpoint.com/v2/url?u=https-3A__lucidconnects.com&d=BQMGaQ&c=8hUWFZcy2Z-Za5rBPlktOQ&r=79arPOJPCGeKJXIw8WuoGdOg8ATEnAaqcrqsZBJbfE4&m=zMD93rqO3W5aK51-t7lDHkERAExmLe2aZ7mVn9um_IM&s=eIdTxCGw8oiqHWY4Hd3AV8Q-y7SP6JIZ0piqNAizprY&e=" \t "_blank)
  + Comfy: https://gocomfy.com
  + Sub-metering would be needed to monitor spaces smaller than a whole building.
  + Dashboard only has ~40 buildings
* *Karl*: Lack of confidence in Energy Dashboard data—some buildings aren’t metered for certain resources (Loomis isn’t metered for electricity). More confidence in EBS.
* *Fred*: Consistency in data display would be appealing—want same information displayed in each building
* *Dhara’s* report from Green Building conference: Go net positive in lieu of net-zero if you can’t achieve net-zero
  + Dhara was intrigued by using the Living Community & Living Building Challenge as a guideline. To achieve full certification is difficult.
    - [http://living-future.org/sites/default/files/reports/FINAL%20LBC%203\_0\_WebOptimized\_low.pdf](https://urldefense.proofpoint.com/v2/url?u=http-3A__living-2Dfuture.org_sites_default_files_reports_FINAL-2520LBC-25203-5F0-5FWebOptimized-5Flow.pdf&d=BQMFaQ&c=8hUWFZcy2Z-Za5rBPlktOQ&r=79arPOJPCGeKJXIw8WuoGdOg8ATEnAaqcrqsZBJbfE4&m=pacDd3lH0nse7Ax4muo3QlrAy_RW4QNwx0wU5T4OuiY&s=s9YUlQppZCuXbtAcqMchxySY4bEREuZWsLPSEkMcWCE&e=" \t "_blank)
    - [https://living-future.org/sites/default/files/reports/LCC1\_0\_Final\_sm.pdf](https://urldefense.proofpoint.com/v2/url?u=https-3A__living-2Dfuture.org_sites_default_files_reports_LCC1-5F0-5FFinal-5Fsm.pdf&d=BQMFaQ&c=8hUWFZcy2Z-Za5rBPlktOQ&r=79arPOJPCGeKJXIw8WuoGdOg8ATEnAaqcrqsZBJbfE4&m=pacDd3lH0nse7Ax4muo3QlrAy_RW4QNwx0wU5T4OuiY&s=YKTf-B-Fv1I1yrvpuDHyUAhoxlslYxcBQX902VATYFU&e=" \t "_blank)

1. Nishant’s updates on Green Office Program

* Whichever office wants to be part of the program, have to get 50% of employees to sign up
  + More than 100 people, only need 25%
  + Starting to collect data now (analyze education and interest levels)
* Individual forms asking about checklist of energy conservation behaviors
  + Categorized by iCAP sections
* Got rid of “certified level”—certifications now start at bronze level
* When reviewing submitted forms every week, will send out a feedback report (e.g., of your 50 people, 16 have filled it out)

1. Report from Design Center public meeting held December 2.

Sounds like sustainability ethos for the Design Center is on the radar but no numbers yet to back it up. Project has hired a sustainability consultant: AtelierTEN. Scott Willenbrock spoke at the meeting advising that the planning team demonstrate sustainability considerations. Our SWATeam was mentioned as being in support.

* + *Fred*: Design Center project planning bypassed F&S—much is donor-driven
    - There is a bank of square footage, and Design Center borrowed against that bank
    - Bank has ~100,000 (40,000 left after Design Center)—another building is going to have to be demolished for square footage to go back into the bank

1. Campus space utilization and optimization

* *Karl*: First step should be communication to see what everyone is doing and if there’s any active engagement. Karl had an email exchange with Jill Maxey, Kevin Duff, Matt Tomaszewski, Fred and Ben about the following:
* 1.       There is probably a list out there with notes about which building should be razed, however this is not public information at this point.
* 2.       We do see underutilized space on campus, but who gets to make decisions on this? If we do identify this, then what happens?  How is the campus engaged on this item?
* 3.       What happens if we find areas of the buildings that are underutilized, we still have to heat and cool these spaces.  We could easily spend too much time sending out F&S labor only to undo the mechanical revisions in say the next 6 months.
* 4.       Should this type of item be included in the campus master plan update, or maybe it is in there already?  If not, it probably should reside in this area.
* *Fred*: Thinks there’s active engagement but that silos don’t speak to each other
  + About 8 different criteria that go into the decision on whether a building gets demolished or whether it goes through extensive renovation
* *Karl*: Kent’s comment is that he’d like to see iSEE get more engaged in this topic and figure out a game plan, but first step is still communication before we can start talking about solutions.
* Karl is planning to try to pull together some folks to begin a discussion. (Jill, etc.)
* *Jessica*: Are people in departments willing to share information on how space is actually being used? How do we get an honest response?
  + *Marian*: Department heads would probably know best
* *Karl*: With regards to NSRC, he ran an idea by Doug Walters to put whatever money is saved into a bucket to draw from for building enhancement costs
  + Incentive program—turn off fume hoods and other equipment to save money to put towards building enhancement
    - Will have to sit down with users there and see how they engage

1. Feasibility study issues.

* Monica will write a paragraph suggesting a feasibility study for communicating energy usages in buildings through consistent data displays
* Second feasibility study paragraph needed for meeting the new ASHRAE standards
* Other ideas for feasibility studies: Green Labs, but Nishant clarified that feasibility studies take a long time (like a year) and we should use the consultancy route for the Green Labs initiative or find students who want to help for class credit. Recommendation process is faster than feasibility study. Need both people who work in labs and those who spearhead the efforts. Fred is definitely interested in helping. Grad student vs. undergrad? Need someone with certain skillset. Someone who has worked in a lab before. Need building-level competitions because we don’t have sub-metering.

1. Discussion of goals

* *Marian*: Should start putting goals down on paper next meeting
* *Nishant*: Goal is to create change-makers within offices
* *Nishant*: Successful program implementation will take time
* *Marian*: Get into contact with the people who have the experience with successful programs and look into their communication and implementation strategies
* *Karl*: Know what we want to do with ESCOs but don’t have the money
* Claudia will collect the students’ availability for next semester’s weekly meeting time