**Energy Conversation & Building Standards Meeting**

*In attendance: Claudia Szczepaniak, Jessica Tran, Karl Helmink, Marian Huhman, Monica Chhatwani, Nishant Makhijani, Scott Willenbrock*

1. Energy Dashboard Project update: Monica developed a paragraph proposing an update and expansion of dashboards. Issues are that students don’t find it very engaging and places where dashboards have been successful use them as part of competitions between units to reduce energy in the company. Marian used the iWG recommendation/feasibility study template to put the paragraph into a draft of a formal recommendation. Morgan Johnston clarified in an email prior to the team meeting that operational responsibility for updating or changing the Dashboards would be an operational unit, not student sustainability committee. Should be coordinated in partnership between ISEE and F&S. Company used for the project was InStep. <http://icap.sustainability.illinois.edu/project/energy-dashboard-project>

Karlis thinking we could redo the dashboard in a different platform and in a different environment. Monica noted that improvements we are able to make depend on the contract we have with InStep. The real-time meters that we have in 41 buildings were done under the InStep contract.

* *Karl*: Show InStep one of Lucid’s products and say this is what we want, is it possible?
  + *Monica*: We won’t have to install real-time meters again, but we will need to improve the software.
* Nishant thinks the next step is to engage Morgan; he will contact her.
  + This will be a recommendation, not a feasibility study.

1. Presentation by Scott Willenbrock from the Energy Generation, Purchasing, Distribution SWAT

* Energy Generation SWATeam has 4 objectives, one being 100% clean campus energy—very aggressive goal. The date we will be able to achieve this by (iCAP says 2035) is undetermined, but it will be challenging.
* Scott has found a report led by a number of people, including Jeffrey Sachs, an economist at Columbia University. It details potential pathways to decarbonization, takes a look at 16 different countries in the world, and suggests organizing a meta-effort. Here is link to US plan: http://deepdecarbonization.org/countries/#united-states
* 3 entities involved in the US, including Lawrence Berkeley National Lab
* The pathways lay out 3 different ways to get to 80% reduction in CO2 emissions by 2050, which is deemed “good enough” (100% is extremely tough)
  + Renewables
  + Carbon capture and sequestration
  + Nuclear energy
* Involves major changes in all energy sectors.
* Reducing end-use energy is a huge part of it regardless
* Basically, we should get a group of experts here at UIUC to come up with a path to really reduce carbon dioxide emissions. Example of an idea proposed in the Deep Decarbonization report is instead of retrofitting buildings, make sure new buildings are to extremely high standards. Scott tentatively proposes that implementation of these ideas be called “UIUC 2050.”

1. Feedback by ECBS team

* May want to hire outside consultant, but have many experts here at UIUC. Could be a campus-wide feasibility study. Should look into companies that could help us achieve this. Scott’s team had not objections, but it takes time for people to mull things over. Meeting Friday, so may be more discussion then. There’s time to mull this over and look into potential hires for this project.
* *Karl*: We’re working with $100 million in ESCO projects and a lot of old buildings. We have $750 million in deferred maintenance. Where should we be going and how much money do we need to get there? Tend to pick the lowest hanging fruits. But no document exists that lays out what we should be doing for the next 15 years.
* Scott is proposing this kind of document. All pathways cost more than fossil fuel generation—the point is to find the solution that offers the most bang for the buck.
  + *Karl*: What are other campuses doing for this 2050 goal?
    - Looked into Rice University
  + *Nishant*: This would be a feasibility study. There are many university-focused consulting companies for strategic planning for energy conservation.—Morgan gets many requests. Consulting services would be beneficial in trying to figure out how to attain this 2050 goal. Greener U is one example. <http://www.greeneru.com/>
    - Nishant will email Scott a list of companies Nishant or Morgan is aware of.
* Other discussion: What would the offsets be?
  + *Scott*: No offsets with this idea. Point is to look at everything and try to figure out where you can do away with fossil fuels. Hard to do away with fossil fuels when it comes to flying, but the point is to do what you can and what is possible.
* Scott was envisioning engaging the entire campus in UIUC 2050. Mechanical engineering, architecture, F&S, etc. We have experts on this campus, but people’s time is limited.
  + Scott will write some things down and send them out
* Scott plans on moving ahead with the 2050 goal with his SWATeam even without the help of a consulting group.

1. Karl has set up a meeting for campus space utilization issue for December 14.
2. Feasibility study for new ASHRAE standards. Marian will ask Fred about this.
3. Moving forward—next semester.

* Marian proposes divide and conquer approach. From discussions this semester, two points of focus could be Green Labs and Earth Hour or Lights Out projects. Look into dividing team to accomplish more specific goals. ECBS SWATeam would still meet once a month.
* Continuing thoughts on engaging student interns to help with Green Labs initiative
  + Marian will send request to Nishant for student to work on this.
* Next meeting will be Wednesday, January 27 at 4pm. Claudia will send out poll for times for whole semester.