**Energy Conservation and Building Standards – 6th Meeting Minutes**

*In attendance: Marian Huhman, Yun Kyi Ki, Karl Helmink, Paul Foote, Swarnali Sanyal, Dave Boehm, Carol Lin (clerk); Absent: Andrea Martinez Gonzalez*

1. Approval of minutes from November 14
2. Closure on the recommendation for energy conservation funding.
   1. Marian informed the team the recommendation has been submitted to the iWG.
3. Dave Boehm provided background on building maintenance issues
   1. Overall, the campus has 600+ buildings and 23M GSF. 300+ of these buildings are maintained out of state funds and covers about 13M GSF. The remaining buildings are covered by department funds, but Dave’s team is still responsible for the work.
   2. For FY17, the budget was $13.9 million, which is lower than FY15’s budget of $20 million. To perform his job, ~$39 million is needed. There is no plan to increase his budget for the coming year as of now.
   3. Most energy goes toward lighting and water usage in buildings. Water heating is 24%, HVAC is 37%, lighting is 22%, and other is 17%.
   4. Dave has one preventive maintenance team consisting of 5-6 people. The team performs tasks, such as changing the light bulbs when they are out, upgrading lights and fixtures when they can, and repairing, replacing, and maintaining HVAC systems. They clean heat transfer systems as much as funding will allow. They also manage the heat transfer medium in closed systems, such as refrigerators, heating water, steam, etc. to ensure the piping is not destroyed while optimizing heat transfer. If boilers and systems are not consistently maintained, they lose their efficiency at a drastic rate.
   5. Dave’s team manages the work force that cares for the systems (closed loop piping systems) that allow controlled movement of the medium (gas or fluid), which allows it to be utilized in the best manner
   6. Dave’s team also helps support campus utility distribution. They change filters and lubricate equipment to keep the leaks to a minimum.
   7. They also complete over 60,000 work orders annually. Small repairs range from $0-$5000 and big projects range from $5000 – $100,000.
4. Report from Campus Master Plan meetings held this week
   1. Marian attended the meeting last night. Ted Christy and two people presented. The plan has been approved by the Board of Trustees.
   2. The planning process had six drivers. Net zero growth was one of them. Underneath that, they conceptualized it by reduce, reuse (renovation), recycle (repurpose a building), renew (replace the space with new construction). They claim they’re within 1.5% of the zero net growth targets for the next ten years. The complete plan includes much more growth beyond the next 10 years will severely challenge staying within the zero net growth target of the iCAP. The team is concerned about this.
   3. They talked about achieving greater energy efficiency, noting the high energy usage of buildings like the Rogers Adams Lab. They were surprised by energy usage in residential/dining buildings, too.
      1. Karl wants to know if there is room for improvement with residential/dining buildings. Air conditioners are also being installed at some of the older residence halls, creating a new energy demand that wasn’t there before. Only one or two buildings can be picked a year to be renovated for high efficiency heating and cooling.
      2. Dave says fume hoods, coolers, and freezers consume a lot of energy.
      3. Dave did try to install a new type of fume hood before. There was resistance from the grassroots.
5. Update on energy conservation imagery project
   1. Marian met with two students from the American Advertising Federation of Illinois, Jane Lee and Account Director of one of their teams, Anastasia Mourikes. This fits with the fourth objective of the SWATeam to engage the campus community. Morgan originally suggested having more images to use when we want to message about energy conservation, in residence halls, and social media graphics and presentations. They’ve assigned an agency called On the House to our project. It’s free to us and they love having the university as a client.
   2. Marian says we want more images than just lighting. She gave them ideas, like ILO data, Dirty Dozen buildings, and charts on energy usage.
   3. Marian asked the SWATeam for more ideas. Karl suggested fume hoods and refrigerators. Swarnali suggested responsible water usage, for a lot of energy is used to heat water. For example, laundry is free now at Orchard Downs and students don’t use the washing machine and dryer efficiently. Paul suggested having Lowa Mwilambwe, Associate Vice Chancellor for Student Affairs and Director of Auxiliary Services,
   4. On the House will start next semester. Andrea from our team is heading this project. They will get back to us around end of February for feedback and work with us throughout the semester. They hope to produce around 25 images.
   5. Dave commented many staff don’t feel a connection to iCAP goals. Swarnali wonders if we can give presentations at each department’s seminar. Marian will put this as a future agenda item. Morgan might be interested in this.
6. Follow up on freezer challenge efforts and Eco-Olympics
   1. Paul wants to find out more about who is managing the grant funding and overhead money for the freezer challenge. Paul has also sent out emails to Jan N. and EHS. He has informed them he signed the University of Illinois up again and he would look at the scorecard. Paul’s goal is to make it easier to interpret and for other people to participate in the Freezer Challenge. He has also contacted Tina just in case. Marian will put this as a future agenda item.
   2. Paul & Andrea put in a request with the SSC since it’s a project that qualifies by being under $10,000. The SSC is reviewing and voting next week.
   3. Paul needs to keep nudging the OVCR, DRS and F&S to get this off the ground and labs to participate.
   4. Paul has recruited new people for Eco-Olympics. The previous president graduated last spring, so Paul found a new president, two publicity/marketing chairs and a Treasurer.
7. Report from ILO folks and next ILO is Friday tomorrow
   1. Marian will email this out to the SWATeam
   2. The next ILO is tomorrow (Friday)
   3. Marian (and maybe Swarnali) are attending
8. Planning for joint meeting with the EGen SWATeam
   1. This will take place during the spring semester
9. Next meeting?
   1. Thursday, December 14 from 3:30 to 5 pm. Marian will be skyping in.
   2. There may be feedback on the recommendation by then!