**Energy iCAP Team Meeting**

Thursday, January 21st, 2021

3:00 pm via Zoom

*Members in attendance: Bill Rose (Co-Chair), Andy Stumpf (Co-Chair), Paul Foote (Staff), Sushanth Girini (Staff), Tim Mies (Staff), Marcela Vega Munoz (Staff), Peter Davis (Student), Matthew Gold (Student), Yun Kyu Yi (Faculty, Ximing Cai (Staff), Meredith Moore (Staff), Kimmy Chuang (Clerk)*

Meeting

**Update on Building Envelope Pilot Project**

1. Morgan is working with SCC to get the funding paperwork and meetings will be scheduled

**Recommendations in Progress**

Comprehensive Energy Plan

1. Morgan suggests having Energy Team representatives discuss with Mohamed (Director of F&S)
2. Conversation between Morgan, Andy, and Ximing has happened regarding this plan. This recommendation may take longer to fully develop because supporting materials are needed. Help from Energy experts may be needed. Supporting materials would need to explain why it is necessary and what conditions are needed. This recommendation would definitely go to the Sustainability Council who may then pass on to Provost Office who will start teams. Next steps may be to identify who should help, possibly from F&S.
3. Provost Office says whatever we do, we do with a plan. Currently, we have no plan for how to achieve net-zero by 2050. Director of Utilities at F&S was charged with drafting an Energy Plan, but we're unsure if it exists.
4. There was an Energy Master Plan made by F&S ("Utilities Production and Distribution Master Plan") in 2015. There was a new one made, but it has not been approved to be shared. Kimmy and Paul will work on arranging meeting with Rob Roman as soon as possible about new plan and how we could utilize it for our recommendation.
5. 2015 plan's scope did not include Energy Conservation, so our new Comprehensive Plan should include energy conservation, not just utilities. Examples include building envelopes. This will probably be best done through outside contractors.
   1. There may not be one firm that has all the expertise we need.

Modeling for Energy Code Compliance

1. Kimmy will make some organization edits and send to co-chairs. Draft is ready to submit once we receive final comments from remaining members.

ESCO

1. Recommendation is being passed onto the Sustainability Council

**New Business**

Updates on Energy Efficiency Projects (Labs & Residence Halls)

1. Engagement Team has been contacted. Peter, Matthew, Paul, and Marcela will have a brainstorming meeting and update at next meeting.
2. Brinn will try to get concrete equipment information from her labs and will want to move forward with a recommendation at the next meeting.

Budget Discussion

1. Colleges act as tenants of the University who has pay their own utility bills, which is not conducive to energy conservation. There will be a baseline for each college for how money they can receive from Administration for energy. If college saves energy by 10%, then they can use that money for themselves and the administration will also give an additional 10% to them.

* Yun Yi noted there could complaints about how these baselines are determined because some colleges already consume little energy and aren't able to save that 10%.
* Paul said EcoOlympics considered the possibility of such complaints. Students adjusted by weighting participation by 70% and actual energy savings by 30%.

1. University spends approximately $7 million on energy and our entire budget is ~$2 billion. Geothermal at Campus Instructional Facility saved 50% energy use. Payback was moved from ~40 years to 28 years. Windows have computer chip that tints them automatically.