Attendees…

**Mike Larson**, Director of Utility Production, Facilities & Services

**Tim Mies**, Deputy Director of Operations, Energy Farm, Energy Biosciences Institute

**~~Xinlei Wang~~**~~, Professor of Agricultural and Biological Engineering~~

**Yu-Feng Forrest Lin**,Hydrogeologist, Illinois State Geological Survey - Prairie Research Institute; Clinical Professor, Department of Civil and Environmental Engineering; Research Professor, Department of Natural Resources and Environmental Sciences

**Catherine Yee**, Student Member

**Jack Morrissey**, Student Member

**John Flanagan**, iSEE Campus Sustainability Intern

**Olivia Webb**, Sustainability Programs Coordinator

**Morgan Johnston**, Associate Director of Facilities & Services

1. **Call to order**

We will determine spring ’17 EGEN SWATeam chair at the top of the agenda next meeting…  
**Mike, Yu-Feng,** student, other faculty/staff…?

1. **Approval of minutes from last meeting** – APPROVED!
2. **Open issues**
3. **Review draft recommendations for on campus solar**

**John** will make the following changes as discussed per the group:

* Simplify by removing “OR” statement
* Change “…at least 50% of rooftop…” to “…the majority of rooftop…”
* Remove sentence containing “… due to prohibitive engineering costs”

1. **Review focus topics EnGen SWATeam (see attached document)**

PETASCALE

NSF facility is not truly an on-campus facility. Next iteration of petascale should be using clean energy. REC offsets could be used to match the next computing grant cycle.

Who is doing ISTC grant writing? Could be valuable to reach out to them.

CLEAN ENERGY PPA

**Morgan:** It would be very helpful to have a cost-benefit analysis of how different types of RECs impact suppliers and buyers, and what this means for the university.

* How do costs play out?
* What’s the value of pointing to a specific wind farm?

1. **Review of draft recommendation for Petascale offsets**

Background: Ben McCall recommended it would be helpful if we submit a recommendation that we need to pursue purchase of clean energy.

Recommendation can go straight to Vice Chancellor…

**Mike** will revisit the recommendation and bring to next meeting

1. **New business**
2. **Morgan Johnston, iCAP Working Group and Associate Dir. Of Campus Sustainability update.**

Position is officially vacant until Summer. Someone has been selected but is not currently available.

Ben McCall will be working on a carbon credit virtual store room and will remain faculty advisor for biodiesel students

**Morgan** is chair for iCAP working group, the council is meeting every other year

1. **Updating the project page**

EGEN team members assigned to update each of the four EGEN objectives on the iCAP portal:

1. Explore Options for 100 Percent Clean Campus Energy: **Forrest**, **Tim**
2. Expand On-Campus Solar Energy Production: **John**
3. Expand the Purchase of Clean Energy: **Catherine**, **Jack**
4. Purchase Offsets for Supercomputers: **Mike**

Wording for updates may be used from the potential strategies section of the 2015 iCAP with original contributions from SWATeam members. Updates will be discussed at next EGEN meeting.

1. **Meeting day/time for this semester**

EGEN team will continue to meet biweekly 11:00-12:00pm at NSRL 358.  
**John** will make room reservation.

1. **Other**

**Morgan** would appreciate feedback from all EGEN members related to the *recommendation process*… What works well? What doesn’t? How should it be? How did you find background data? What level of data is it? Etc…  
E-mail comments or ideas to [campus-sustainability@illinois.edu](mailto:campus-sustainability@illinois.edu)   
Open questions: 1. how is recommendation started?

2. what’s in the recommendation?

3. how is it received?

4. what kind of feedback is provided?

**Tim** mentioned potential for ribbon cutting ceremony for biomass boiler project, stay tuned…

Did utilities master plan get back to us on potential solar farm?... where would it go?

Real estate vs. solar farm – how do we reduce the conflict?

* Use geothermal below solar…
* Agrovoltaics?? Integrating ag efforts with solar farm…
* Research what other schools/organizations are doing with rooftop solar…
* Validate the cost, answer the question (this costs extra money, why would we do that?)  
  i.e. let’s be the first big 10 school that’s doing this, compare to Illinois, big 10, other campuses in general: add to explanation and background

Those with relevant expertise: Elizabeth Stegmaier, Jim Sims, Scott Willenbrock…

1. **Adjournment**

Next meeting will be Feb 3rd 11-12pm @ NSRL 358  
Jack will be traveling to Uganda to participate in an integrated design project – We wish him luck!

Focus topics for this years SWATeam - Clean Energy Ideas

* Expansion of on campus solar.  
  Setup meeting with Niharika Kishore to discuss her.  
  Development of building standards that require roof designs that can accommodate solar panels for all new construction.
* Clean energy PPA.   
  Develop a recommendation to explore pricing for another clean energy PPA.
* Carbon capture  
  Setup meeting with Kevin O’Brien to hear about the ISTC projects.  
  Setup meeting with Sally Greenburg to hear about sequestration at ADM.
* PetaScale  
  Repurpose waste heat instead of venting. Can this be sent cost effectively to the State Farm Center.  
  Provide a recommendation that offsets be pursued for Petascale emission in order to meet the FY18 goals established in the iCAP.
* Air Permit - Could we pursue a more flexible air permit that would allow the campus to test burn various biomass options at Abbott.  
  Setup meeting with F&S Environmental compliance to provide an overview of the campus Title V air permit, and review the options for burning biomass on campus.