**eGen SWATeam Meeting 05**

December 6th, 2018

8am-9am

NSRC 358

**Attendees:** Yu-Feng Lin (chair), Andrew Stumpf, Tim Mies, Gabriel Mishaan, Jonah Messinger, Taylor Holin (clerk), Scott Willenbrock (guest), Morgan White

1. Approval of last meeting’s minutes
2. Welcome new students, introductions
3. Invite to see the geothermal drilling site on the Engineering Quad (Andrew Stumpf)
   1. Open invite throughout the next 2 weeks
   2. Drill operating from today until December 18th
4. Discussed overall geothermal energy focus for the year
   1. Initiating projects on campus that help the surrounding community as well
   2. Efficiency is high (~70%), thus the campus is supportive of geothermal approaches
   3. Focus is on non-electricity geothermal energy production
5. Request from U of I extension (Andrew Stumpf)
   1. They’re holding a meeting in late January and want someone to discuss the legal implications behind wind and solar energy
   2. Scott Willenbrock may be a good contact for this
6. Discussion of the possibility of putting a geothermal system in the new UIUC Baseball Facility (Andrew Stumpf)
   1. On Florida Ave, next to baseball field
   2. Article announcement: <https://herald-review.com/sports/illini/illinois-baseball-gets-million-donation-for-indoor-training-facility/article_0429011d-42ea-587f-be79-1b9256eb6bf9.html>
   3. There are a lot of windows within the indoor training facility, geothermal could create a more efficient heating and cooling system
   4. Further discussion needed with Morgan White the following semester
7. Review of Cornell University visit (Yu-Feng Lin)
   1. Cornell is the leader of geothermal energy in the east coast
   2. Goal is for them to help UIUC become geothermal leader in the midwest
   3. Illinois has the right geology and weather pattern to do it, along with plenty of smart people to make it happen
   4. Good timing to start initiating further projects
8. Update on geothermal in greenhouse project (Yu-Feng Lin)
   1. Decided that geothermal is not the right fit for this project
9. Update on Solar Farm 2.0 project status (Morgan White)
   1. 55 acres; +12 MWh
   2. Draft RFP with open questions to be answered before moving forward for approval
   3. Needs decision on timeline and costs
      1. Option 1: Price needs to be at $50 per MWh or less in order to be paid back to PEI (Prairieland Energy Inc.) within 20 years
      2. Or if that price point isn’t attained, Option 2: 10-year PPA through campus
   4. Draft to be out December 18th - will be pushed back
10. Progress update on recommendation submitted by eGen last spring regarding a power purchase agreement with an off-site solar farm (Scott Willenbrock)
    1. This is moving forward
    2. F&S currently reviewing this, to report back by April 2019
    3. Currently, a solar farm in Sydney, IL is of particular interest
       1. It’s close by (10 miles away)
       2. Large scale (150 MW)
    4. Looking into other possibilities as well
11. Groundwater and Geothermal Summit feedback
    1. Great opportunity to meet other players in geothermal
    2. Introduced contacts to ask questions on different systems and projects
    3. Raised awareness of the geothermal possibilities for campus
12. Announcements
    1. Who Owns (Geothermal) Heat? Article released - British Geological Survey
       1. <https://docs.google.com/document/d/19QGIkJpFtk4Sl68G-iHLIC3OZsVyE3f9rsBsSVmEjJY/edit?usp=sharing>
    2. Change in energy bill payment structure
       1. Each department will be responsible for paying their own energy bills
       2. Due to this, departments will be more interested in finding efficencient energies to save money
       3. Change will be implemented within the next year
    3. Engineering Instructional Facility (P3) geothermal project has been confirmed
    4. Joint SWATeam meeting (ECBS + eGen) tomorrow (12.07.18)
       1. Temple Buell Hoyne Hall room 115 @ 4pm
       2. Goal: to revisit metrics of measurement for iCAP, initiate conversation
13. Action Items
    1. Think about new iCAP objectives for 2020
    2. To help solar projects in motion, we can start thinking about storage/battery research and/or including it in the 2020 iCAP
       1. Look at what other universities are doing regarding energy storage
    3. Informing people of the possibility of paying more for clean energy and emphasizing that it’s OK because we’re making a difference!
14. Next meeting TBD - most likely after winter break
15. Adjournment