

iWG Assessment

SWATeam Recommendation Ref #: EGEN 010 – Geothermal Feasibility Study

Date of iWG Assessment Started: 06/07/2019

Assessment Completed: 08/08/2019

Original SWATeam Recommendation:

Enter into a contract with an engineering firm to evaluate the feasibility of implementing geothermal energy technologies in future new construction and retrocommissioning of buildings on the UIUC campus.

iWG Assessment of budget and policy impacts (*check one*):

moderate budget and/or policy impact OR major budget and/or policy implications

iWG Routing Need (*check one*):

more detailed study OR transmit recommendation OR forward to Sustainability Council

iWG Routing Direction (*department name, SWATeam, or Council*): EGen SWATeam

iWG Recommendation: iWG recommends that the Energy SWATeam conducts additional analysis of on-campus efforts and provides a summary with this recommendation and further detail in other relevant areas including best practices from peers, and work with F&S to recommend a detailed scope for a study. We recommend that the SWATeam identify a chair to lead an ad hoc team of geothermal stakeholders to ensure timely completion of the effort.

Individual comments are required from each iWG member (can be brief, if member fully agrees):

iWG Member Name	iWG Member's Comments
Ximing Cai (iSEE)	I agree an external consultant is needed to evaluate the feasibility of implementing geothermal energy at campus, but I hope this will take advantage of existing efforts at campus. What are special outputs expected from the evaluation?
Morgan White (F&S)	It will be good to see a summary of the work completed and in progress for geothermal on campus before entering into a contract with an outside consultant.
Alma Sealine (Student Affairs)	I support this recommendation.
Matthew Tomaszewski (Provost's Office)	I support the iWG's recommendation – we need more information.
Scott Willenbrock (Provost Fellow)	I think we should be moving more aggressively. Geothermal is our best hope for eventually eliminating fossil fuels from campus.
John Dallesasse (Academic Senate)	I support this recommendation.
Joe Edwards (Student Sustainability Committee)	I agree with this recommendation, provided we are able to streamline and aggregate our campus geothermal initiatives already underway.
Sean Reeder (OBFS)	I support this recommendation. The group of geothermal stakeholders should take into account who pays for the study as well as topics/questions of, can geothermal be integrated into campus wide plant infrastructure or is it more limited to single buildings

	and/or small groups of buildings. For example, can geothermal be used to precondition chill water plant input?
S. Renee Wiley (college-level facility manager)	I agree with this recommendation with the following caveats, I would suggest that the existing projects on campus with a geothermal component be evaluated to determine if the applications are suitable and productive/producing as expected, and further analysis on the cost impacts to the existing projects compared with the benefits estimated the receive. I do not believe we have F&S personnel that is skilled in various areas of geothermal energy technologies, who will evaluate the engineering firms that will be on retainer? I would suggest that a committee to be formed investigate geothermal energy technologies before soliciting engineering firms to conduct a feasibility study.
Joey Kreiling/Jonah Messinger (Student Sustainability Leadership Council)	I agree. Geothermal is a major step in the right direction as far as decarbonization.

Attach any comments from subject matter experts (with names and roles).