



STUDENT SUSTAINABILITY COMMITTEE

Final Report

Thank you for your commitment to green initiatives at the University of Illinois. One of the final steps in completing the terms of the funding agreement for your project is the submission of a Final Report with key information about your project. You will also need to submit a detailed report of expenses (if you don't list it within this document) as well as supporting photos to showcase your project.

Please be as accurate as possible in describing the project (including possible setbacks or challenges in meeting the initial goals of the project). Not fully meeting your project's goals will not disqualify you from making future funding requests as long as your reports are as complete and accurate as possible. If you have any questions, please contact the Student Sustainability Committee, at sustainability-committee@illinois.edu.

Project Name: Gable Home - Permanent Location

Date of Report Submission: 2/1/2021

Project Purpose:

Project relocated the Gable Home from its previous location at the iHotel due to immediate issue in preventing research park expansion. In 2018 the house was relocated to the Energy Farm for a permanent home where the house would be reconnected to the campus electrical grid and be utilized by student and faculty teams for research, education and outreach.

Project Summary:

The Gable Home was placed on its permanent foundation in late fall 2019. Utilities were connected, and the initial stabilization of the structure was completed. Power has been feeding back onto the grid since fall 2019 as a net energy exporter to campus. With the Gable Home set on a permanent foundation funding from other sources was secured to continue further research activities namely the installation of a geothermal heating and cooling to augment the original undersized system, in the process the hot water system was up graded to run off the newly installed geothermal system that is currently being installed (Jan. 2021). Additional work in 2021 will work toward completing the wooden decking and landscaping around the structure, outside of this initial funding.

Summary of Relocation Expenditures:

Funding Source	Funding	Commitments	Balance
SSC Gable Home Funding	60,000.00		0
WO 10700597 Duce construction foundations		(60,000.00)	
ISEE	30,000.00		0
WO 10700597 Duce construction foundations		(24,020.00)	
WO10700632 F&S trades		(5,980.00)	
ACES	30,184.71		0
WO 10694935 High Voltage Electrician		(20,000.00)	
WO10700632 F&S trade		(10,184.71)	
SSC 2007 Solar House Balance	0.00		
Additional Departmental Electrical Support	15,612.50		0
WO 10694935 High Voltage Electrician		(15,612.50)	
Chancellors Fund	40,975.20		0.00
WO 10618687 Initial planning		(1,001.49)	
WO 10694935 High Voltage Electrician		(15,250.01)	
WO 10728263 Duce construction septic work		(16,465.50)	
WO 10700597 Duce construction foundations		(144.68)	
F&S Trades safety bollard installation		(7,244.43)	
WO10700602 Inspection		(869.09)	
TOTALS	176,772.41	(176,772.41)	0.00

Problems/Challenges Encountered

Planning and construction was slow to proceed in 2019, leading to most of the exterior work (painting, siding repairs) to be postponed until Spring 2020. With the effects of COVID-19 impacting work since March 2020, it was not until Mid-September when these final cosmetic efforts to the exterior could move forward with significant effort. Students were able to participate in this effort in helping to improve the exterior aesthetics. These efforts will continue into the future, with possible applications for future funding outside of this initial funding.

Student Involvement and Outreach to Date:

The primary involvement students have had in this project has been in assisting in laying the cables for future monitoring of the geothermal system (see photos below). Students were also able to assist in the stabilization/rehabilitation of the exterior of the Gable Home (see photos below). Outreach activities have been hindered due to COVID-19, however once all remaining repair work has been completed and the entrance ramp and deck have been reinstated an update about the project will be written and publicized via the Illinois School of Architecture's website

and social media efforts. In addition, Prof. Mark S. Taylor plans to use the Gable Home as one of his Case Study projects in class FAA 330 Making Sustainable Design

Marketing and Promotion Efforts to Date:

Marketing and promotion have been significantly impacted by COVID-19, as all tours were cancelled in 2020. We hope to continue to promote this project and open up future field tours once COVID restrictions ease. In the meantime, we will continue to work with the Solar Decathlon Team to advertise this house as one of their successes. This demonstrated commitment of the SSC and campus to Gable Home aided in securing funding for current Solar Decathlon team 2020 house from the Illinois Clean Energy Community Foundation by demonstrating a long-term commitment to these houses.

Additional Comments:

Any additional comments/relevant information for this report

In addition to the above fields, please provide a detailed accounting of how the funding was spent as well as pictures of the final project in an email to sustainability-committee@illinois.edu. Thank you again for your commitment to sustainability.









