



STUDENT SUSTAINABILITY COMMITTEE

Semesterly Report

Thank you for your commitment to green initiatives at the University of Illinois. One of the ongoing requirements listed in the terms of the funding agreement for your project is the submission of semesterly reports with key information about your project. In addition to this form, please provide additional financial documentation and/or progress photos if available.

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: Temple Buell Hall

Date of Report Submission: 1/10/2019

Project Purpose:

Improve educational environment, calculate existing energy use and determine operational improvements to reduce energy use and improve comfort.

Detailed Accounting of Expenditures to Date:

F&S Charges: \$501.87, Supplies: \$62.04

Project Progress to Date:

We have begun data collection to compare baseline energy consumption to energy consumption after installation of the pilot project - energy efficient HVAC control retrofit. Sensors needed were determined and installed. Data collection has begun with 4 weeks of data so far. Initial review of the data has identified several challenges with the HVAC already including heating valves that are leaking by providing heat where not required, which explains why the Air Handler is getting rid of heat even in the winter. The variable air volume system is also not varying as it should. This is demonstrating some pitfalls of pneumatically controlled HVAC systems.

Student Involvement and Outreach to Date:

Students evaluated the target rooms and identified the data required and the sensors required. They also aided in the installation of the sensors and the data collection cables. They also collected an initial batch of data and evaluated it to verify that the data was appropriate.

Marketing and Promotion Efforts to Date:

Marketing has not yet begun.

Additional Comments:

SEDAC is going to be teaching a Landscape Architecture course on the Built Environment and the data will also be used as part of the class exercises.