Green Fund Project
Final Report
This report may be published on the SIU sustainability website.

Name of person(s) completing report: Omer Elsanusi, Kyle Kieffer
Department: ECE
Contact Phone and email address: (618)-303-6530 oelsanusi@siu.edu
Faculty Advisor (if applicable): Frances Harackiewicz
Project Title: Occupancy Motion Sensing Lights in Computer Lab (Engineering – A209)
Project ID #: 18SP109
Award Date: April 27, 2018
Completion Date: 1/27/2019
Total Funds Used: $1840.13

1. Provide a summary of your project/project experience.
    This project is identical to a previous project (also Green funded) that replaced light switches at another computer lab in Engineering College (room E132)
    The overall experience was positive. There were some setbacks. However, working through these problems gave me a real world situation where communication is key to getting everyone on the same page and getting things accomplished.

2. Provide a summary of your results (environmental, social, and/or economic) including quantifiable data as appropriate (ex. # of individuals reached, lbs. diverted from landfill, energy saved, etc.).
    The environmental and economic benefits are closely tied together. Computer lab A209 as shown in the pictures attached to the email is now dark when no one is using it. This saves the college money on electricity because the room is only lit when someone is using it. We save 0.15 pounds of greenhouse gases per hour that the lights are off according to a study by Boston University. Over a single day, we save about a pound of greenhouse gases from being emitted into the environment. As far as the social, this project was completed over the winter break when not many students were around to witness it. With the new semester starting, returning and new students will notice the difference in the lab and will learn more about the vacancy sensors when they use the lab for classwork.

3. Summarize how your project promoted the Green Fee/Sustainability on campus including, but not limited to, flyers created, screenshots of website, signage, etc. Please include website links, if applicable. (Reminder: you are required to promote your project using at least 2 items from the awardee website promotion list.)
    A big poster was placed around the switch to inform everyone using the lab how the sensors work. Everyone that enters the lab has to use the switch to turn on the lights so they are forced to see the poster.

4. Provide evidence of how you used the Green Fund Marker in your project.

The Green Fund Marker was incorporated into the poster design that is attached to the email. (Green Fund poster)

5. Is there anything you would do differently if you were to do a similar project in the future? If so, please describe.

I would do an in person meeting with someone from Physical Plant to make sure that all materials and costs are clear to everyone. A form outlining everything like a bill of materials instead of an email chain with different prices spread throughout.

6. Provide as an attachment to the email (see email address below) a minimum of 5 digital images. Images should be of high a quality as possible and be attached in jpg format, if available. Images will be used to promote interest in sustainability projects on campus and may be used on our website and in other promotional material. These can be photos of the progress of the project or the completed project. Provide captions for photos here.
"Lights off during Day" shows that now the lab is dark when no one is using it.
"Lights off at night" shows that now the lab is dark when no one is using it.
"New light switches" shows the new "auto-off" installed light switches
"Lights on" shows the lab with the lights on when no one is using it.
"Occupancy Sensor" shows installed sensors that send signals to switch lights of when no one is around.
"Green Fund poster" shows the poster that was put next to the light switch that incorporates the green fund marker.

7. List suggestions for the SIU Sustainability Council to improve the Green Fund Award Process here:

The only suggestion I have is to maybe work a little closer with the Physical Plant to maybe develop a request form that applicants can submit to the Physical Plant to get an estimate for the amount of work that they want done for their project.

Lights on in a classroom.

Occupancy sensor.

Green Fund poster.

Final Report forms should be sent electronically, in editable Microsoft Word format, to greenfund@siu.edu. This should be completed before requesting final reimbursement. A Sustainability Council designate will review final reports before releasing funds.