

Green Fund Project Final Report

This report may be published on the SIU sustainability website.

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Faculty Advisor (if applicable): Dr. Frances J. Harackiewicz (Engineering Professor); Omer Elsanusi (PhD Candidate)

Project Title: Lincoln Drive Bike Lanes

Project ID #: 18SP124

Award Date: May, 2018

Completion Date: August, 2018

Total Funds Used: \$12,674.10

1. Provide a summary of your project/project experience.

The SIU sidewalks have seen traffic of both bicyclists and pedestrians which created an unsafe environment for both parties. Over the summer the bike lanes were painted on areas of Lincoln Drive to provide a safer route for bicyclists on campus. Since the installation of the bike lanes, bicyclists now have a dedicated route that they can use without endangering other pedestrians.

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.).

Based on bike decal data provided by Holly Rick of the FOIA office, an estimated 905 students rode bicycles on campus from April 2017 to April 2019. Since the implementation of the bike lanes, these bicyclists have had a safer space to ride their bikes.

Some of the changes to the roadway include:

- 10,200 linear ft. of painted bike lane along Lincoln Drive and parts of Normal Ave.
- 14,600 linear ft. of non-painted shared lane usage for bicycles and automobiles.
- 65 painted symbols on the roadway for easier traffic differentiation.

This information was provided by Bret B. Dougherty of the Physical Plant.

The walking traffic on the sidewalks immediately around Lincoln Drive has been more convenient for pedestrians. With the implementation of the bike lanes, this project encourages people to ride their bicycles rather than drive their cars, which helps lower fuel emissions around campus that are harmful to the environment.

If 500 SIU students chose to ride bikes for their commute, we could prevent over 8,000lbs of CO₂ from our environment per week.
Average commute for college students= 20miles
(<https://files.eric.ed.gov/fulltext/EJ248850.pdf>) Average MPG for vehicles on road today 24.7 (<https://www.reuters.com/article/us-autos->) $20/24.7 = 0.8$ gallons used. 20lbs of CO₂ is produced per gallon of fuel used.
(https://www.fueleconomy.gov/feg/contentIncludes/co2_inc.htm) $20\text{lbs} \times 0.8 = 16.19\text{lbs}$ of CO₂ per student per week. $16.19 \times 500 = 8,095$.

- 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 public blog was shared featuring the bike lanes. (<https://blog.news.siu.edu/new-bicycle-lane-markings-aimed-at-improving-safety/>)
- Some impact posts have been compiled for the use of any social media platform

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

The green fund marker will be included in the social media posts and communications email.

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

This project was designed by the physical plant and students who graduated last year. Inadvertently, the final report and promotion of the bike lanes were left to students who weren't directly involved with this project. The obstacle of not being fully informed of the process has made the final report a challenge. We would highly encourage the Green Fund committee to ensure that someone who was fully involved with the project complete the final report (and other requirements) before leaving SIU.

- 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.**



- Image 1: This image portrays work being done to complete the “green junctions” (perpendicular vehicle crossing) on the bike lanes.



- Image 2: This image features the indication that bikes are allowed on campus streets.



- Image 3: Pictured here is the bike lane along Lincoln Drive next to Parkinson Laboratory.



- Image 4: This photo highlights the completed bike-road crossing (junctions in green).



- Image 5: In this image, you can see the expanse of the

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

The workshop that was held for awardees was informative. However, an additional alternative time for students to meet would be beneficial. It seems that May is a very busy month for all students on campus and June there a very few students on campus. If there

was an additional workshop offered in the fall for awardees the information would be fresh in their minds to complete the final report.

Also, the students who worked on the project were not directly involved with our accountant. It seems our advisor, Omer, was the middle man in with all the financial information. It may be beneficial to invite the accountants to the workshop. An email from the sustainability office would urge our accountants further to attend this workshop. This way the whole process of project, payment, final report and reimbursement is cohesive.

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.