

2013-14 STUDENT ORGANIZATION SUSTAINABILITY INITIATIVE (GREEN RFP) FUNDING PROPOSAL

Part I- General Information:

Name of Student Organization	GLC Fellows
Contact/Responsible Person	Brielle Wright/Eric Margiotta
Contact Office Held/Title	GLC Student Building Manager
Contact Email Address	bswright@vt.edu/margiotta@vt.edu
Contact Telephone Number	540-231-6500

Part II- Project Cost Information

Estimated Cost of this Proposal	\$6,750	See III.C. below
Estimated Savings -	\$7,722 over 10 years	See III.D. below
Net Cost of this Proposal =	-\$972 every 10 years	

Part III- Supporting Information

A. Please describe your sustainability initiative and attach supporting documentation.

Since 2008, there have been 4,867 bikes registered on campus with Virginia Tech Parking Services. There are spaces for 30 of these bikes outside the GLC. The GLC offers a bike loan program for all graduate students. We have 5 bikes that are available in up to 4-hour increments for any currently enrolled graduate students. The bikes currently are locked to two bike loops outside the building (picture attached). The bikes were replaced recently. Due to being stored uncovered all year, the life span for the bikes has been dramatically reduced due to rust, etc. from the elements.

We are proposing adding a covered bike shelter in front (Otey St. entrance) to the GLC in order to prolong the Graduate School's investment on the bikes as well as help the graduate and campus community at large protect their bicycles. This space is also used by GLC residents and other visitors (undergraduate students, prospective students, faculty, staff, etc.) to the building. Approximately 50% of the residents of the GLC are international students. These students often don't have vehicles (even personal bicycles on campus). This GLC bike loan program allows these students access to the surrounding area and helps them feel like the true members of the community that we aspire for them to be.

The number of reservations has been constantly growing (556 hours logged during the 2012-2013 year). As such, additional bicycles may be added to the program increasing the savings and reduction of CO2 emissions. This plan was initiated by student staff in the GLC and is endorsed by Student Centers and Activities, the Graduate School and the Alternative Transportation Office.

B. How does this initiative help to achieve the goals of the Virginia Tech Climate Action Commitment Resolution and Sustainability Plan?

VTCACR&ST - 1. Alternative Transportation - Institute Bike Share Pilot Program on Campus. Having public bikes available on campus would increase bike ridership and decrease car use for short cross-campus trips, decreasing congestion slightly, and reducing energy use and emissions.

The GLC has been operating a version of a bike share program since 2008. In the past year the program logged 556 hours accounting for over 50 individual users. This number includes a 3 month period where the bikes were unavailable due to repair/replacement in addition to a dramatic decline in usage over the winter months.

According to calculations in **Table 15 of the VTCACR&ST**, keeping the existing bikes in good condition will save 3,757lbs of CO2 emissions annually.

Section IX. 5. Student Centers and Activities (formerly UUSA) Continue the development of a green facility improvement plan.

This proposal helps progress the green facility improvement plan for the Graduate Life Center.

Policy Memorandum #262, Revision 1 - 11. Virginia Tech will improve transportation energy efficiency on campus through parking, fleet, and alternative transportation policies and practices. The university will continue to implement programs that encourage the use of alternative transportation methods and will continue to implement programs and services that promote eco-responsible fleet management.

Keeping bikes in usable condition for longer periods will allow for continued use of the loaned bikes and encourage more usage of alternative transportation.

C. What is the cost of your proposal? Please describe in adequate detail the basis for your cost estimate.

Cost of covered shelter (price quote attached) - \$6,450

Cost of extending existing concrete pad (provided by Matt Gart in University Planning) - \$300

D. Will your proposal produce cost savings for the University? If so, how much? Please describe in adequate detail the basis for your savings estimate.

The covered bike shelter will enable the Graduate School to save on the replacement cycle of the bikes they purchase and provide for the graduate community. Bikes were purchased recently at a cost of \$2,574 (price quote attached for recent purchase). The bikes have seen a usable life of 3.5-4 years since they are constantly exposed to rain, snow, etc. Keeping them sheltered should extend this usable life to approximately 10 years with only minor maintenance tune-ups. Exposed bikes would need to be replaced approximately 3 times over a 10 year period. The cost for that replacement would be \$7,722. This \$7,722 would be saved every 10 years as the shelter will easily surpass 10 years of function.

E. Is this funding request an Ongoing or One-Time change (**please check one**)?

One-time

Ongoing

F. Is funding available for this request from another source? If yes, describe the funding (source, amount, etc.)

Funding is not available from another source for this proposal. Bikes would have been replaced sooner if budgets allowed for the smaller expenditure let alone this much larger project.

Part IV- Requestors/Reviewers

Prepared By (Name of Contact for Student Organization) Brielle Wright	Date 10/25/13
Reviewed By (Name of Appropriate University Official) Eric Margiotta/Kitty Zeringue	Date 10/25/13
Reviewed By (Name of Office of Energy and Sustainability Representative)	Date



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October 1, 2013

Bike Shelter Quote

RCLF Site Furnishings is proud to offer a bike shelter solution to Virginia Tech as outlined in a drawing to Matthew Gart, Landscape Architect. Each shelter is \$6450.00, including installation. Installation shall include delivery, construction, and surface mounting shelter on a suitable concrete pad. Concrete pad to be provided by Virginia Tech and/or its agents.

This quote is good for 30 days. Please let me know if you have any other questions.

Thank you,

Neil Conner
Director of Sales

