

SUSTAINABILITY INITIATIVES BY STUDENT ORGANIZATIONS FUNDING PROPOSAL

Part I - General Information

Name of Student Organization	Students for Sustainable Practice
Contact/Responsible Person	Brianna Friedman
Contact Office Head/Title	Events Coordinator
Contact Email Address	fbrianna@vt.edu
Contact Telephone Number	443-630-5956

Part II - Project Cost Information

Estimate Cost of this Proposal	\$11,440	See Part III.C
Estimated Savings –	\$ 2,888 in year 1	See Part III.D
Net Cost of this Proposal	\$ 8,552 in year 1	

Part III - Supporting Information

A. Please describe your sustainability initiative and attach supporting documentation.
This initiative would replace all 104 current CFL light bulbs with high-efficient LEDs (e.g. 11-watt Lunera LEDs) in all study lounges in Pritchard Hall. The purpose is to reduce the amount of energy used in lighting this common space, increase building efficiency, and reduce green-house gas emissions.

B. How does this initiative help to achieve the goals of the Virginia Tech Climate Action Commitment and Sustainability Plan?
By implementing LED lights as more sustainable option for lighting study lounges, Virginia Tech will maintain its goal as a campus sustainability leader by continuing to find improvements that not only improves environmental stewardship by decreasing energy usage but also improving economic efficiency. By using less electrical energy in providing light to study lounges, Virginia Tech will be continuing its goal of reducing GHG emissions by reducing the amount of fossil fuels needed to produce electricity and will improve energy efficiency. This RFP increases campus lighting efficiency by about 60 percent and promotes the continued improvement of energy efficiency and equipment efficiency. By minimizing the use of electricity in lighting study areas this university is reducing GHG emissions and improving energy efficiency.

C. What is the cost of your proposal? Please describe in adequate detail the basis for your cost estimate.
The cost to replace 104 existing bulbs in \$11,440. (See attachment for details calculations).

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.
Yes. The annual energy cost savings is \$1,412, and the annual maintenance cost savings is \$1476. Thus the total annual cost savings is \$2,888.
The net cost of this proposal in the first year is \$8,552 (\$11,440 - \$2,888) and the simple payback period is 4 years. (See attachment for detailed calculations using the "Lighting Calculator").

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.)
No

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Part IV- Requestors/Reviewers

Duffy Lowe, Students for Sustainable Practice

Prepared By (Name of Contact for Student Organization)

Date 11/17/2017

Todd Pignataro, Associate Director of Facilities, Division of Student Affairs

Reviewed By (Name of Appropriate University Official)

Date 02/19/2018

Denny Cochrane, Sustainability Program Manager, Office of Sustainability

Reviewed By (Name of Office of Sustainability Representative)

Date 02/19/2018