

**2012-2013 GREEN RFP PROGRAM
STUDENT ORGANIZATION SUSTAINABILITY INITIATIVE FUNDING PROPOSAL**

Part I- General Information:

Name of Student Organization	Environmental Coalition at Virginia Tech
Contact/Responsible Person	Catherine Goggins
Contact Office Held/Title	Environmental Coalition Representative in the Student Government Association House
Contact Email Address	Catgo9@vt.edu
Contact Telephone Number	(757) 810-2344

Part II- Project Cost Information

Estimated Cost of this Proposal ~\$27,000 See III.C. below

Estimated Savings - ~\$4,000/year See III.D. below

Net Cost of this Proposal = ~\$27,000 with all costs reclaimed in <7 years

Part III- Supporting Information

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

Re-ballasting and relamping of existing fixtures in public areas (hallways, study, and lounge spaces) within Hillcrest Hall would save energy, especially in areas where students cannot choose to turn off the lights due to inaccessible light switches. This high number of hours these fixtures burn greatly increases the impact of more efficient fixtures. Implementing these changes in Hillcrest Hall would have immediate energy savings. As the smallest residence hall on campus it could also potentially serve as a trial for other larger residence buildings on campus.

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

As stated in Article Four of the Virginia Tech Climate Action Commitment Resolution and Sustainability plan, reduction of energy waste should be an utmost priority. Through its switch in lighting, Virginia Tech would improve its energy efficiency without sacrificing safety or the comfort of its student residents. Hillcrest Residents attended sustainability events and worked to reduce energy consumption during the Eco Olympics last spring and were successful, winning the award for small residence halls. While students do choose to conserve energy in their own rooms and lounges, the hall lighting is less easily controlled and therefore, currently difficult to conserve through student efforts.

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

The re-ballasting/relamping of existing fixtures in the hallways and other public spaces of Hillcrest Hall would cost about \$30,000. Proposal cost is based on a lighting cost / gross square foot factor (\$0.618 / GSF) derived from a similar lighting upgrade proposal for Pritchard Hall recently scoped and estimated by Pepco Energy Services as part of the overall ESCO Phase 1 project. Factor was increased by 10% to account for inflation and lighting material cost escalation.

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, with an annual savings of approximately \$4,300 the funds would be recovered in payback period less than seven years while savings would continue for years to come. Proposal savings are based on a lighting savings / gross square foot factor of \$0.090 / GSF derived from the Pepco Pritchard Hall proposal and escalated: (1) 5% for current VTES electricity charge-out rate; and (2) 10% for use of 25-watt lamps vs. the 28-watt-based Pepco proposal.

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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.)
N/A

Part IV- Requestors/Reviewers

Prepared By (Name of Contact for Student Organization)

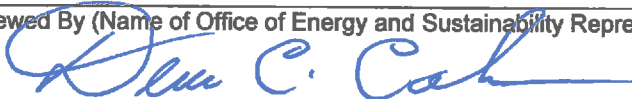
(Date)

Catherine Goggins

October 10, 2012

Reviewed By (Name of Office of Energy and Sustainability Representative)

(Date)



NOV 19, 2012