

STUDENT ORGANIZATION SUSTAINABILITY INITIATIVE PROPOSAL FORM

Part I- General Information:

Name of Student Organization	UAP 3354 - Introduction to EPP
Contact/Responsible Person	Isabelle Largen, Noah Carrillo, Cameron Spradlin
Contact Office Held/Title	Jim McDaniel
Contact Email Address	isabellelargen@vt.edu
Contact Telephone Number	276-920-7628

Part II- Project Cost Information

Estimated Cost of this Proposal See III.C. below

Estimated Savings - See III.D. below

Net Cost of this Proposal =

Part III- Supporting Information

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

Our sustainability initiative is to add a water bottle refilling station in the Math Emporium. Students at the Math Emporium can spend extended periods of time there studying and need water, but it can be difficult to fill up their water bottles; this is because the current water fountain has a low stream making it harder to fill up and leading to more water loss. By replacing the fountain to a water bottle refilling station students will be more efficient when filling up their water bottles and incentivize refilling over buying plastic water bottles.

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

8. Virginia Tech will minimize waste and achieve a 50% recycle rate by 2020.

Adding a water bottle refilling station will reduce the amount of plastic waste produced by Virginia Tech students.

10. Virginia Tech will engage students, faculty, and staff through education and involvement to develop and implement innovative strategies for efficient and sustainable use of energy, water, and materials in all university-owned facilities.

Having a water bottle refilling station will provide students with the opportunity to be more sustainable and lead to more efficient water usage compared to a normal water fountain.

14. Virginia Tech will work to provide funding to support sustainability programs.

The water fountain is a certified Greenspec product.

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

We spoke to Jim McDaniel, a facilities project coordinator for Virginia Tech, to determine the cost of the project. The cost he provided is broken down as follows:

- Filtered EZH2O Retro-Kit: \$489.84
- Installation: \$620.00
- Electrical Upgrade(GFI): \$350.00
- Paint: \$125.00
- Contingency: \$237.73

Total: \$1,822.57

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.

According to the 2014-2015 Academic Water Bottle Refill Station Green RFP prepared by Sustainability @ VT, the water filling station in Squires Student Center and Newman Library were installed in the late spring semester of 2011. The digital counter on the stations was an average of 11,929 bottles per station as of October, 2012. This number represents 5 months of plastic reduction for one water bottle station. One school year (9 months), $[11,929 \text{ bottles}] / (5 \text{ months}) * (9 \text{ months}) = 21,472 \text{ bottles total}$. According to the International Bottled Water Association's website, the average gram weight of the 16.9 ounce "single serve" bottled water container is 12.7 grams. The weight of the plastic bottles not used from one water filling station is 272,697 grams per school year. There are 907,185 grams in a ton. This results in a weight of 0.3 tons per school year. $(21,472 \text{ bottles per station}) * (12.7 \text{ grams}) = 272,694 \text{ grams}$; $272,694 \text{ grams} / (907,185 \text{ grams per ton}) = 0.3 \text{ tons}$ The university pays about \$32 a ton for single stream recycling. . Each year the university will save \$9.6 or ~\$10 $(\$32 * .3)$

E. Is this funding request for a One-Time need or an Ongoing need (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

STUDENT ORGANIZATION SUSTAINABILITY INITIATIVE PROPOSAL FORM (Continued)

Part IV- Requestors/Reviewers

Isabelle Largen, Noah Carrillo, Cameron Spradlin

Prepared By (Name of Contact for Student Organization)

Date

Jim McDaniel

1/9/10

Reviewed By (Name of Appropriate University Official)

Date

Denny Cochrane

1/9/10

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

Date

STUDENT ORGANIZATION SUSTAINABILITY INITIATIVE FUNDING PROPOSAL

CONTACT LIST

In the preparation of your Green RFP form, we encourage student organizations to seek input and guidance from the following list of university employees. These individuals are familiar with the form and the process. They can address the feasibility of your proposal, can provide a technical review, and can evaluate the cost & potential savings.

Area of Expertise	Name	Title	Email Address
Energy Management	Ruben Avagyan	Campus Energy Manager	rubena@vt.edu
Facilities: Housing & Residence Life	Todd Pignataro	Associate Director of Facilities	ptodd@vt.edu
Facilities: Buildings & Grounds	Jim McDaniel	Project Coordinator	jmcdani@vt.edu
Water Bottle Refill Stations			
Exterior Lighting	Bob Dellinger	Assoc. Director, Utilities	rdelling@vt.edu
Student Engagement & Campus Life	Eric Margiotta	Association Director	margiotta@vt.edu
Dining Services	Anthony Purcell	Assistant Director	purcella@vt.edu
Alternative Transport (Bike, Bus, Walk, etc.)	Jeri Baker	Director, Parking & Transportation	jab518@vt.edu
Landscape Architect	Bob Massengale	Site Planner	rmassen@vt.edu
Hahn Horticulture Garden	Scott Douglas	Director/Instructor	dsd1@vt.edu
Recycling	Denny Cochrane	Sustainability Program Manager	denniscc@vt.edu
Miscellaneous	Karlee Siepierski	Campus Sustainability Planner	Skarlee3@vt.edu