SUSTAINABILITY INITIATIVES BY STUDENT ORGANIZATIONS FUNDING PROPOSAL

Part	I - General Information			
Name of Student Organization		Translational Plant Science Graduate Student Organization		
Contact/Responsible Person		Marco Enrique Mechan Llontop		
Contact Office Held/Title		President		
Contact Email Address		marcoeml@vt.edu		
Contact Telephone Number		540-8185718		
Part II - Project Cost Information				
	Estimate Cost of this Proposal	<mark>\$ 7,500</mark>	See Part III.C	
2 out of 3 stations fund	ed Estimated Savings –	\$ 29 in year 1	See Part III.D	
	Net Cost of this Proposal	\$ 7,471 in year 1		
Part III - Supporting Information				
A. Please describe your sustainability initiative and attach supporting documentation. The Translational Plant Science Graduate Student Organization (TPS-GSO) as part of an interdisciplinary program, represents students from 7 different departments at Virginia Tech. As a student organization, the TPS-GSO develop several activities including discussion seminars, a symposium and retreats that take place most of the time in Latham Hall. This building provides research, office and auditorium space hosting over a hundred VT employees including faculty, staff and graduate students. Here, the TPS-GSO propose to replace and install new refill water drinking fountains in Latham Hall. Currently, this building has several water fountains, however despite efforts to maintain the equipment, their condition is deteriorating, affecting energy consumption and increasing water waste. We noticed that many Latham Hall workers use the water fountains to fill water bottles, which is not convenient with the ancient fountains, increasing water waste. Therefore, we are presenting this sustainability initiative to install new drinking water fountains in Latham Hall in order to improve water quality, minimize energy waste, improve public health, and promote enhanced the use of refillable water bottles by offering an efficient way of refilling them.				
F T C C T	B. How does this initiative help to achieve the goals of the Virginia Tech Climate Action Committee Resolution and Sustainability Plan? The implementation of new and more efficient water filling stations will promote a deeper awareness of environmental stewardship in our Translational Plant Science community including faculty, staff, and students. Also, it will help the University to minimize plastic waste, improve public health and engage our scientific community to efficiently use water and energy. The installation of efficient water filling stations in one of the main research facilities at Virginia Tech such as Latham Hall, will highlight the University's position as a Leader in Campus Sustainability.			
· ·	C. What is the cost of your proposal? Please describe in adequate detail the basis for your cost estimate. The total costs for this proposal is \$7,500 and was provided by the Facilities Department Project Coordinator Jim McDaniel. The \$2,500 per unit includes equipment, installation, electrical work, paint & contingency.			

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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. This proposal will reduce waste-management costs to the university as it will encourage the use of reusable water bottles.

Based on campus analysis a Water Bottle Refill Station Single unit provides water for reusable containers saving an estimated 21,472 bottlers annually. This proposal requests funding for 3 stations. Therefor we would expect to save 64,416 bottles annually.

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. The total weight in grams of the plastic bottles not used from all three proposed water bottle filling stations in one school year is 818,083 grams. There are 907,185 grams in a ton. This results in a weight of 0.9 tons per school year.

(21,472 bottles per station) * (12.7 grams) = 272,694 grams (64,416 bottles) * (12.7) = 818,083 grams (818 083 grams) / (907,185 grams per ton) = 0.9 tons

No.

The university pays about \$32 a ton for single stream recycling. . Each year the university will save \$29. 32×0.9 tons = \$28.86

Ε.	Is this funding request an Ongoing or One-Time change (please check one)?				
	X One-time				
F.	F. Is funding available for this request from another source? If yes, describe the funding (source, amount, etc.)				

 Part IV- Requestors/Reviewers

 Marco Enrique Mechan Llontop

 President of the Translational Plant Science Graduate Student Association

 Prepared By (Name of Contact for Student Organization)

 Date 11/08/2017

 Patrick Hilt

 Director of College Facilities

 Reviewed By (Name of Appropriate University Official)

 Date11/13/2017

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

Date 11/20/2017

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Location and water fountains at Latham Hall



Water Fountain in 3rd floor: Next to the elevator door

Water Fountain in 4th floor: Next to the elevator door



Water Fountain in 5th floor: Next to the elevator door



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