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

Part I- General Information:		1000			
Name of Student Organization	SGA Sustainability Co	mmittee			
Contact/Responsible Person	Spencer Sauter				
Contact Office Held/Title	Committee Member				
Contact Email Address	sksauter@vt.edu				
Contact Telephone Number	973-349-6971				
•					
Part II- Project Cost Information		, 10 ( S , - 1 , 1 S , N , - 1 , 1 C )	C		
Estimated Cost of this Proposal	\$11,970	See III.C. below			
	7 1 1,01				
Estimated Savings -	\$ 6,650	See III.D. below			
	¥ 0,000	occ m.b. bolow			
Net Cost of this Proposal =	\$ 5,320				
Net oost of this Floposal -	\$ 5,320				
Part III Supporting Information					
Place describe your sustainability initiative on	d offeet compatition of				
A. Please describe your sustainability initiative and					
Of the 28 Residence Halls on campus, 21 have so					
replace 266 shower head fixtures (currently 3.5 an	d 3.0 gallons per minute	in Slusher Hall and the other 20	Residence Halls)		
with lower-flow shower heads (2.5 gallons per minus	ute). Unce installed the	lower-flow shower head fixtures	would provide an		
estimated annual water savings of 23,000,000 gall	ons.				
D. Henry do on this initiative half to achieve the					
B. How does this initiative help to achieve the goa	is of the Virginia Tech C	limate Action Commitment Resol	ution and		
Sustainability Plan? VTCAC&SP page 47 states "C	continue water conserva	tion program throughout campus	to reduce		
water and sewage costs and save energy and emi	ssions required for pum	oing and treatment." VTCAC&SF	page 72 states		
"Continue energy efficiency and infrastructure impr	ovements in all building	s."			
C. What is the cost of your proposal? Please desc	ribe in adequate detail t	he basis for your cost estimate.			
The total cost of this proposal \$11,970. It includes	\$5,320 for the 266 2.5	GPM lower-flow shower head fixto	res and \$6,650		
labor cost. Figures were provided by Tim Gift, Associate Director of Facilities Management, Housing and Residence Life					
(See next pages).		_			
D. Will your proposal produce cost savings for the	University? If so, how n	nuch? Please describe in adequa	te detail		
the basis for your savings estimate. Yes. Over \$45	5,000 in the first year. (\$	See next pages).			
E. Is this funding request an Ongoing or One-Time change (please check one)?					
-					
x One-time		Ongoing			
E le funding available for this request from "	manuman Maria	hadha Carda d			
F. Is funding available for this request from another source? If yes, describe the funding (source, amount, etc.)					
Yes. Facilities Management, Housing and Residence Life, will provide the entire \$6,650 labor cost for installation.					
Thus the net cost of this proposal is just the cost of the 266 shower head fixtures which is \$5,320.					
Part IV- Requestors/Reviewers					
Prepared By (Name of Contact for Student Organiz	•		(Date)		
Spencer Sauter, SGA Sustainability Subcommittee			Nov 27,2012		
Paviawad Pa (Nama of Office of Farmers of C	Zahilia Danas ( )				
Reviewed By (Name of Office of Energy and Susta	mapility kepresentative)	)	(Date)		

Dec 12, 2012

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

2012-13 Green RFP Low Flow Shower Head Fixtures for Residence Halls

Building Ambler Johnston	Total Showers All New	Low Flow Heads	Total Needed
Barringer	All New		
Brodie	50	_	
Campbell East	All New		50
Campbell Main	All New		0
Cochrane			0
Donaldson Brown	84		84
	109		109
Eggelston Main	24		
Eggelston West	24		_
Harper Hillcrest	86		86
	28		28
Johnson	36	9	
Lee	All New		0.
Miles	All New		0
Monteith	16		16
New Hall West	All New		
New Residence East	80		
O'Shaughnessy	39		
Payne	67	38	29
Pritchard	Ali New		
Peddrew-Yeates	71	64	7
Rasche	52		52
Slusher Tower	36	16	20
Slusher Wing	48	34	14
Special Purpose Housing	130	39	91
Thomas	20		20
Vawter	36	9	27
Newman	47	12	35
Total	440	174	266
			\$20.00
			\$5,320.00
			266
Labor 1 hour @ \$25.00 per hr			\$25.00
			\$6,650.00
			, -,
Total cost			\$11,970.00

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## **Cost Savings**

Number of students living in Residential Halls	9300
Number of showers per day per student	1
Number of days student and summer conferencing on campus	240
Total estamated student showers	2,232,000
Estamated summer conference showers	50,000
Estimated summer school showers 84 x 300 = 25200	25,200
Total estamated showers per year	2,307,200
Gallons savings per shower @ 3.5-2.5= 1 gal per minute	1
Average shower time at 10 minutes	10
Estimated water savings to convert all SH to Low Flow (in gallons)	23,070,200
Cost per gallon	\$0.00325
Total savings per year	\$74,978.15
Percent of savings with associated with installing 266 new LFSH	60.45%
Total savings per year if project implimented	\$45,327.70