

Proposal Details

G Hendrix

Section 1: Summary Information

* Project Title:	USF Electric Bus Initiative
* Duration (months):	12
* Total Budget (\$):	\$1,693,687.50
* Requested SGEF Funds (\$):	\$1,093,687.50
* Matching Funds (\$):	\$600,000.00
* Proposed Starting Date:	3/27/2017
PI Graduation Date (if applicable):	5/6/2017

Section 2: Applicant Information

	Full Name	Unit/Department	Phone	Email
* Principal Investigator	Lauren Jones	Parking & Transportation	941-258-62	laurenjones1209@gmail.com
Investigator 1	Dylan Thomas	Parking & Transportation	727-514-23	dylant@mail.usf.edu
Investigator 2				
Investigator 3				
Investigator 4				

Section 3: Project Description

* Project background and purpose (reasons motivating request) (Max 500 words)

We are looking to transition USF's diesel-fueled bus fleet to full electric by the initial purchase of two 40-ft. electric buses. This project will drastically reduce our campus' annual carbon output/footprint. This will improve both the environmental and social health of our local community, while also increasing ridership and awareness of SGEF through student interest.

* Project activities (Max 250 words)

This project will require the purchasing of two 40ft. electric buses through USF Parking & Transportation's formal buying process. The construction of the proposed lot for the buses will also need to take place, along with an upgrade for the transformer (the charging source).

* Project results (Max 500 words)

By our projections, we have concluded that by switching from diesel to electric, Parking & Transportation will save \$700,315.2 over the 15 year lifetime of an electric bus from fuel cost savings alone. On route C (the desired route of operation for the electric buses), P&T spends an average \$1,086,696 on diesel fuel costs over a 15 year lifetime of one bus, whereas an electric bus is estimated to cost P&T \$386,380.8 over a 15 year lifetime on the same route.

* Outcomes of the project (Max 250 words)

This project is expected to decrease GHG output of USF's Tampa campus by at least 143 tons annually, while increasing ridership and expanding Student Green Energy Fund's scope of promotion.

* Annual Energy Savings	878,658 kWh
Annual Cost Savings	\$96,652.38
Return of Investment in %	0.09
Annual Green House Gas Reduction	0.00

*** Project Sustainability (Max 200 words)**

This project will be completely overseen by Parking & Transportation once the project has been implemented.

Section 4: Workplan and Budget Details

*** Detailed work plan/schedule of activities (Max 250 words)**

The initial purchase of two electric buses through the formal buying process overseen by Parking & Transportation is expected to occur over the course of one to two months. After the order has been placed, the manufacturing process will be anywhere from 6-9 months. During this period, the construction of the parking lot intended for storage/charging of the buses will occur.

*** Budget breakdown**

Category	Request from SGEF	Applicant contribution	Total
Personnel (include all involved)	\$20,000.00	\$0.00	\$20,000.00
Equipment	\$0.00	\$0.00	\$0.00
Supplies/Materials	\$1,583,687.50	\$0.00	\$1,583,687.50
Contractual	\$0.00	\$0.00	\$0.00
Construction	\$90,000.00	\$0.00	\$90,000.00
Other (specify in budget justification)	\$0.00	\$0.00	\$0.00
Total Project Cost	\$1,693,687.50	\$0.00	\$1,693,687.50

*** Budget justification (Max 250 words)**

Personnel budget is to cover contributed work by student project members; supplies and materials covers the cost of 2 electric buses; construction covers cost of parking lot space impact changes

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