## **Proposal Details**

G Hendrix	\$281,700.00
* Requested SGEF Funds (\$):	\$281,700.00
* Matching Funds (\$):	\$0.00
* Proposed Starting Date:	1/23/2017
PI Graduation Date (if applicable):	12/16/2017

Section 2: Appli	cant Information			
	Full Name	Unit/Department	Phone	Email
* Principal Investigator	Lauren Reilly	Global Sstainability	727-420-07	Imeilly@mail.usf.edu
Investigator 1	Jeffrey Lowe	Engineering		jlowe2@mail.usf.edu
Investigator 2	Rajeev Kamal	Engineering Science		rajeev@usf.edu
Investigator 3	Arun Kumar Narasimhan	Chemical & Biomedical Engineering		arunkumar@usf.edu
Investigator 4	Antonio Lourenco	Facilities Management alourenc@ 18:13:07:4-93		
Section 3: Proje	ct Description			

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

Currently, there are a variety of roadway and parking lostspit/lat are fiberglass, wooduminum, and concrete with either 250 watt or 400 watt high pressisodium (HPS) fixtures, and under 1930103 or 154-watt LED. The purpose of this proposal is to request funding to replace the 250/400-HPB trixtures to LED campus de. Facilities Management will provide the aluminum poles whene cessary such as, to replace fiberglasses. Last semester, a Roadway and Overall, with all 942 roadway and parking lot light **fixes** converted to LED campus wide, the energy demand is reduced by 531,288 kWh, \$45,159 is saved every year, and about 319 metric tons of carbon never emits into the atmosphere bringing USF closer to our 2070 carbon neutral **Tona** project directly satisfies the Carbon Commitment, previously known as the American College and Univer**Bity** sident's Climate Commitment which was signed in 2008, and beautifies the campus as all the **millor** atmosphere 100% roadway LED was started. Using phrases such as "100% LED University" and "Green University 100% LED ought up examples such **as** iversity buildings or residence halls that were 100% LED, but did not mention for having all the roadway and parking lot lighting as 100% LED.

## \* Outcomes of the project (Max 250 words)

This project aims to reduce the energy consumption op usaby targeting energy efferit lighting. Utilizing LED lighting throughout the campus will redutbe lighting energy demand by about 40%. Thus, the project will enable the University to reduce GHG's along withsitotal electricity consumption. The upge of existing lighting to LED lights in the parking lot and roadway would result the following O2 emissions reduction: 319 metric tons per year • Annual energy savings: 531,288 kWh • Annual energy cost savings: \$45PatyBoack period: 10 years • Total fixtures to be changed: 942

* Annual Energy Savings	531,288 kWh
Annual Cost Savings	\$58,441.68
Return of Investment in %	0.21
Annual Green House Gas Reduction	0.00
* Project Sustainability (Max 200 words)	

Installation, Operation, and Maintenance will carried out by Facilities Management.

## Section 4: Workplan and Budget Details

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

• Develop specifications for labor and materials workinth Wild wild wild wild wild wild be and staff • Issue and analyze bids • Managing product inventory • Create work schedules for contractrk • Inspect contractor's work • Prepare interim status reports for SGEF, • Assistitionubleshooting issues through the project completion • Prepare final project completion report for the stakeholders

* Budget breakdown						
Category	Request from SGEF	Applicant contribution	Total			
Personnel (include all involved)	\$0.00	\$0.00	\$0.00			
Equipment	\$0.00	\$0.00	\$0.00			
Supplies/Materials	\$219,100.00	\$0.00	\$219,100.00			
Contractual	\$0.00	\$0.00	\$0.00			
Construction	\$62,600.00	\$0.00	\$62,600.00			
Other (specify in budget justification)	\$0.00	\$0.00	\$0.00			
Total Project Cost	\$281,700.00	\$0.00	\$281,700.00			

\* Budget justification (Max 250 words)

As the survey of every light pole and fixture has **adyelace**n completed by students during winter break 2016, the additional budget being requested \$281,700 is solely **60626** fixtures at \$450 each. SGEF has already funded \$152,200 previously for the conversion of **3igs** t fixtures. With this data mappleout, the light conversions will be conducted by the electrical contractors.

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