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: Applicant Information

	Full Name	Unit/Department	Phone	Email
* Principal Investigator	Lauren Reilly	Global Sstainability	727-420-07	Imeilly@mail.usf.edu
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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 Manageme	nt alourenc@	&f3e9 74-93

Section 3: Project Description

Currently, there are a variety of roadway and parking lostspotal are fiberglass, wooduminum, and concrete with either 250 watt or 400 watt high pressiscodium (HPS) fixtures, and under 1200103 or 154-watt LED. The purpose of this proposal is to request funding to replace the 250/400HPattfixtures to LED campus wie. Facilities Management will provide the aluminum poles whenecessary such as, to replace fiberglasses. Last semester, a Roadway and

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

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 **Tgris** lproject directly satisfies the Carbon Commitment, previously known as the American College and University sclimate Commitment which was signed in 2008, and beautifies the campus as all the **milimation** will be uniform campus-wide. **Anitial** investigation to determine how many other universities in the state of Florida and counday wiere 100% roadway LED was started. Using phrases such as "100% LED University" and "Green University 100% LED ought up examples such **assiversity** buildings or residence halls that were 100% LED, but did not mentitien oadway and parking lot lights on campus. With further research, it is possible that USF wobglain national recognition 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 operatory targeting energy effect lighting. Utilizing LED lighting throughout the campus will reducte lighting energy demand by about 40%. Thus, the project will enable the University to reduce GHG's along with itotal 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: \$45,745,00 ack period: 10 years • Total fixtures to be changed: 942

* Annual Energy Savings	531,288 kWh		
5.	\$58.441.68		
Annual Cost Savings	\$30, 44 1.00		
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

^{*} 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 advelueen completed by students during winter break 2016, the additional budget being requested \$281,700 is solely £0626 fixtures at \$450 each. SGEF has already funded \$152,200 previously for the conversion of 3766 tixtures. With this data mappleout, the light conversions will be conducted by the electrical contractors.

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

[•] Develop specifications for labor and materials workinth MM engineers and staff • Issue and analyze bids • Managing product inventory • Create work schedules for contractirk • Inspect contractor's work • Prepare interim status reports for SGEF, • Assistitioubleshooting issues through the project completion report for the stakeholders

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