Proposal Details

G Hendrix

Section 1: Summary Information

* Project Title:	Reduction in Urban Heat Islandfect: Cool Roof Strategies		
* Duration (months):	6		
* Total Budget (\$):	\$5,872.00		
* Requested SGEF Funds (\$):	\$5,872.00		
* Matching Funds (\$):	\$0.00		
* Proposed Starting Date:	1/1/2018		
PI Graduation Date (if applicable):	5/6/2018		

Section 2: Applicant Information

	Full Name	Unit/Department	Phone	Email
* Principal	Syed Sadiq Suheb	Mechanical	8138166237	sadiqsuheb@mail.usf.edu
Investigator	Syed Sadiq Surieb	Engineering		
Investigator 1	Suchi Daniels	Facilities Management-Plannir Sustainability	9 ,41) 545-8	suchitramba@usf.edu
Investigator 2	Ashini Vashi	Environmental Engineering	8633378934	aav3@mail.usf.edu
Investigator 3				
Investigator 4				

Section 3: Project Description

Cool Roofs, also known as Reflective roofs can provibe to cost effective way of saving energy and meeting sustainability goals for a building. Anyonis for the present standard darker gray surfaced product vs white surfaced roofing product Derbicolor GP FR C(Rool Roof) is carried out and CPH roundplacement which is already a funded project, only the incremental cost to provide roof layer buildineeded. A cool roof worderflect more sunlight (high reflectance) and release more absorbed heat (high emittance) standard roof, resulting in a cooler roof and building and eventually lead to reduction carbon forms.

* Project activities (Max 250 words)

With SGEF funding, this project will project a cool roof to the CPH building project will be implemented through normal USF construction process object management which includes sign, bidding, permitting, and installation. Expected time frame for completion this project is four months.

* Project results (Max 500 words)

A cool roof improves indoor comfort for spaces that are **irro** to nditioned such as garages. Decreases roof temperature that eventually extends roof service life. Also reduces **laicale** mperature called the Urban Heat Island effect. Reduce power plant emissions, include carbon dioxide, sulfur dioxide, nitrous oxidend mercury, by reducing cooling energy

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

By using the EPA Greenhouse Gas emissions calculator wedrowneto a result of reduction of carbon footprint by 5.5 metric tons of through reduction of 7349 kWh of electricity ulting in annual savings of \$557.78 by the installation of cool roof layer. The project is expected to have weak of 10.5 years. (calculations attached in the file)

* Annual Energy Savings	7,349 kWh
Annual Cost Savings	\$808.39
Return of Investment in %	0.14
Annual Green House Gas Reduction	0.00

^{*} Project Sustainability (Max 200 words)

This carbon foot print reduction is equivaleout CO2 emissions from arious sources like 5984 pounds of coal burnt or Greenhouse gases emissions from 13,405 miles driven by an average passenger car. Facilities Managelmassagreed to maintain the roof, thus ensuring sustainability of the people and no further cost to SGEF.

Section 4: Workplan and Budget Details

* Budget breakdown

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

The space impact form (17-412 cph) is complete and web will working with Project Manager Wayne Richter according to his schedule that starts in January 2018.