



SCU Sustainability <sustainability@scu.edu>

# CSIF Submission: Replacing Malley Center Basketball Court HID lights with LED lights to save energy and money

1 message

**CSIF Submission** <noreply@qemailserver.com>  
Reply-To: CSIF Submission <trigger@qemailserver.com>  
To: sustainability@scu.edu

Mon, Feb 1, 2016 at 3:01 PM

### Recipient Data:

**Time Finished:** 2016-02-01 16:01:42

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### Response Summary:

Campus Sustainability Investment Fund Project Title  
Replacing Malley Center Basketball Court HID lights with LED lights to save energy and money

Introduction (no more than 5 paragraphs) Include: - Brief problem statement - Proposed Solution (...  
Problem and Proposed Solution

Campus Recreation is due for a mass relamping for the basketball courts. Our current lights are not as efficient as they could be and we hope to use this opportunity to replace the HID lighting with new LED lighting- the technology has improved since the facility opened in 1999. During the academic year the facility is open 109.5 hours. This is a one time cost that is incurred every 4 to 5 years. Rewiring will not be needed for the facility. Our project will address greenhouse gas emissions from electricity use, reducing university emissions.

#### Anticipated Outcomes

With these changes, the university's energy bill will reduce by 25% in the Malley Center and over 5 years, Santa Clara University will reduce over 52,500 KWs used and save \$56,523. With these savings, the Apollo lights will pay for themselves in 3.65 years.

#### Funding Requirements

To pay for this, the total amount needed would be \$20,376. Silicon Valley Power will provide a rebate based on the lights used, estimated to be about \$3,200. The net cost of this project is \$17,176.

#### Your information

First Name Janice

Last Name DeMonisi

E-mail Address [jdemonisi@scu.edu](mailto:jdemonisi@scu.edu)

SCU Affiliation (undergraduate student, graduate student, faculty, staff) staff

#### Team members (List their names and SCU affiliations)

Janice DeMonisi, Director of Recreation

Clarissa Yaw, Recreation Operation Assistant

Chris Watt, Director of Utilities at SCU and consultation

Chris Benak, Western Regional Manager, Amagine Light ([www.amaginelight.com](http://www.amaginelight.com))

Faculty/Staff advisor (if applicable)

Which greenhouse gas emissions source(s) will your project address? (Natural gas use, electricity...  
Electricity

How will your project reduce Santa Clara University's greenhouse gas emissions? Clearly articulat...  
we would reduce 52,500 KWs or 15.255 metric tons of carbon over 5 years of having the new LED lights

Total amount requested  
20,376

Budget breakdown (itemized budget). Be sure to include estimates for labor (about \$70/hr) and pe...  
We will e-mail the budget breakdown.

Other funding sources (discuss potential other funding sources for the project, including potenti...  
We would receive a rebate from Silicon Valley Power- estimated to be about \$3,200; with this rebate the total cost should only be: \$17,176.

Return on Investment: show calculations of monetary savings due to your project. (Strong preferen...  
They will pay for themselves in 3.65 years

Clearly articulate how the effectiveness of the product or process will be measured and verified.  
By changing out the lights on the courts we should see less energy being used by the meter on the Malley Center. Thus making the overall universities power bill less once the lights are changed.

Please list the sources of your endorsements so we know who we will receive email(s) from.  
Chris Watt, Director of Utilities at SCU and consultation  
Chris Benak, Western Regional Manager, Amagine Light ([www.amaginelight.com](http://www.amaginelight.com))

Proof of Concept: What projects at other campuses or organizations have you used as a model for y...  
Many Campus Recreation departments have changed their facility lighting to to save money - again we opened in 1999 and this was the best technology then and now we know better....LEDs are the way to go. You still get the candles you need to play basketball, volleyball, badminton on the courts and you get a better energy bill.

Please list any consultants you have worked with (may include SCU faculty/staff or other topic ex...  
Chris Watt, Director of Utilities at SCU and consultation  
Chris Benak, Western Regional Manager, Amagine Light ([www.amaginelight.com](http://www.amaginelight.com))

Indicate the project stakeholders  
The campus community knowing that the lights are using less electricity (maybe they will change more in their own homes); and the university budget with a better electric bill; and Campus Recreation programs will have better lights on the courts for open recreation, intramural sports and club sports.

You might be invited to an in-person committee meeting on Monday of Finals week if the committee...  
As of today this date and time work for me (can we know sooner than later so I can block off the time?) 11:30 would work the best.

Do you have any additional information or comments? To submit additional supporting materials, pl...  
We will e-mail the budget, and consultation documents