

SGEF Application Review Portal: Greetings, Zaida Darley!

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### Greening Up the Champion's Choice (\$6,175.00)

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<b>Submitted On</b>	2011-10-03 00:00:00
<b>Status</b>	Open/Funded
<b>Administrator Options</b>	<a href="#">Mark As Open/Under Review</a>   <a href="#">Mark As Open/Not Funded</a>   <a href="#">Mark As Closed/Funded</a>   <a href="#">Mark As Closed/Not Funded</a>
<b>Proposal Cycle</b>	Fall 2011
<b>Principal Investigator</b>	Jenna Burns ( <a href="mailto:burns-jenna@aramark.com">burns-jenna@aramark.com</a> , Phone: 813-974-8372 )
<b>Co-Investigator</b>	Elanor Ayres ( <a href="mailto:eayres@mail.usf.edu">eayres@mail.usf.edu</a> , Phone: 239-443-7383 )
<b>Organization</b>	USF Dining Services

### Project Details

<b>Description</b> 114 words	USF Dining is seeking to lower their energy use by investing in solar technology, in the form of solar umbrellas that can charge portable electronic devices. The electrical usage of the Champion's Choice will be monitored and compared with the student satisfaction in the solar umbrellas, to determine if the solar umbrellas were worth their investment. This success will contribute to the overall sustainability goals of USF. The success of this project will be communicated to the Office of Sustainability, which would be more than willing to spread the news via their website. The Oracle could also be utilized to inform even more of the USF community of USF Dining's green efforts.
<b>Amount Requested</b>	\$6,175.00
<b>Amount Received</b>	\$0.00
<b>Budget Justification</b> 50 words	o 5 Solar Solace Commercial Solar Powered Umbrellas, which can charge portable electronic devices or power such devices for a limited time. The cost of each umbrella is \$1,235, so for 5 it would be \$6,175. These will provide students with places to charge their electronic devices using solar power and save purchased electricity.
<b>Resource Matching</b> 65 words	There are no other sources of funding to apply for to aid in this project. USF Dining doesn't have a specific budget set aside for appliance upgrading or purchasing. In fact, due to the decrease in freshman with mandatory meal plans over the past year because of increased test score requirements, USF Dining doesn't have any excess capital to put towards this project.
<b>Timeline</b> 51 words	o Ordering of the equipment: November 7th, after approval for funding o Delivery and installation of equipment: As soon as possible o Monitoring for 1 year. Reporting by Principal Investigator on a quarterly basis. o Compare annual electric usage after 1 year and student satisfaction with the operation of the umbrellas determine success.
<b>Evaluation Metrics</b>	Since Champion's Choice dining hall hasn't had a year's worth of electricity records to compare, we

<p><b>127 words</b></p>	<p>can evaluate based on usage of the solar umbrellas by students. We can also, however, compare the electricity usage recorded in the months before the umbrellas were installed to that in the months after they were installed to see how great of an impact they have on energy reduction. The battery life for the umbrellas once charged is 60w per hour, depending on the connected devices. In a 12 hour day, with 5 umbrellas, the savings could be as much as 3600w a day. This is about 25200w a week. If the Champion's Choice is open about 37 weeks a year, that equals about 932,400w a year, or 0.932 kWh a year.</p>
<p><b>Sustainability Plan 137 words</b></p>	<p>This project will aid in the University's goal for sustainability by investing in solar technology. This shall create fewer greenhouse gas emissions and contribute to USF's goal for carbon neutrality. Even after their initial installation these products will continue to save USF electricity for years, while providing students with convenient outdoor charging stations for electronics. The solar umbrellas will be a visible sign of USF's willingness to invest in and promote solar and alternative energy uses. In addition, there is the educational value of raising awareness of these sustainable efforts and reducing the carbon footprint. Just having the solar umbrellas would easily increase the visibility of energy cost and savings that USF Dining is participating in, and show that there is the potential for the same energy savings in many other areas on campus.</p>

**Return On Investment Details**

<p><b>Energy</b></p>	<p>0.93 kWh</p>
<p><b>CO<sub>2</sub> Emissions</b></p>	<p>1.6431798 pounds CO<sub>2</sub> per kWh</p>
<p><b>Cost Savings</b></p>	<p>\$0.1023</p>
<p><b>Return On Investment</b></p>	<p>0.00%</p>

<p><b>Attachment</b></p>	<p> <a href="#">View Attachment</a></p>
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**Reviewer Comments (Add Yours)**

On 2011-10-26 08:34:06, **Thomas Snelling** said:  
 With no other funding source available, it is virtually a guarantee that with out this grant, this project will be placed way down on a priority list. I would support this project as the low cost may allow other projects to receive funding as well. I like it better than the solar panels. I believe most all students know that such things exist. The umbrella demonstrates the wide potential application of solar technology.

On 2011-10-24 13:50:10, **Christian Wells** said:

On 2011-10-21 23:13:45, **Delcie Durham** said:

On 2011-10-21 23:10:13, **Delcie Durham** said:

On 2011-10-19 16:02:49, **Lee Stefanakos** said:  
 This is a fairly inexpensive project that has very good visibility. It will not provide any significant amount of energy. Not clear about the logistics of its operation.

On 2011-10-19 16:00:31, **Lee Stefanakos** said:

On 2011-10-18 11:03:57, **Margaret Rush** said:

I think this is a clever, visual project. It does not produce a lot of energy savings, but it does illustrate USF's commitment and innovation to sustainable practices and is relatively inexpensive. I assume this area is quite active with students who would plug into these umbrellas. I am guessing the solar umbrellas charge a battery that can immediately power up the students laptops.

On 2011-10-12 15:47:37, **Stanley Kroh** said:

Would the charging stations be something where students leave their electronics to be charged? How would security be addressed? I feel the energy savings would be small, but I like the educational component. This is a very direct way and immediate way to get students thinking about renewable energy.

On 2011-10-12 00:11:46, **Rick Martinez** said:

I like the interactive component of this project. In my opinion the more students can be drawn into participation in energy efficiency, the more invested they are in continuing this post USF life. I have question about the life span and upkeep of a solar umbrella design. Do not know enough about this aspect.



Add Comments