

Sustainability Fee Project Grant Report Guidelines

for grants awarded during FY2018

Due by 5pm August 1, 2018

Email pdf or word doc to cfs@georgiasouthern.edu

Please provide the following information in order to help the Center for Sustainability document the success of the Sustainability Fee Grant Program.

Date: July 27, 2018

Name(s): Jason Hoelscher

Unit/Department(s): Art Department / Art Gallery

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Project title: LED Lighting Upgrade for Art Galleries

Amount granted: \$12,457.40

Amount spent: \$12,457.40

I. Project Outcomes/Value

Project Timeline

This project is fully completed. Research for an appropriate bulb/fixture replacement took place during autumn/winter 2016, the grant was awarded during summer 2017, bulbs were ordered in July 2017 and acquired in August 2017. The 88 fixtures were put in place over the course of the autumn and spring semesters during the 2017-2018 school year, with project completion by March 2018.

Project Outcomes

The proposed and actual outcomes of the grant aligned perfectly, leading to a successful project. These goals were to replace the 88 high-energy and high-heat-producing 250-watt incandescent gallery bulbs/fixtures we use in the three Georgia Southern Center for Art and Theater art galleries with 18-watt LED bulbs/fixtures. This project required a great deal of preliminary research on such specifics as matching the light color and light temperature, throw distance and so on, since gallery lighting is a very particular field and not just any bulbs will do. The new lights are fantastic, much more efficient, longer-lasting, and easier to work with due to their substantial reduction in heat production.

Sustainability Improvements

With our Sustainability Fee Project Grant we were able to replace 88 250-watt incandescent bulbs with 88 18-watt LED bulbs. These 88 bulbs are on five days a week from 9am to 5pm, for a total of roughly 2,000 hours per year per bulb. The reduction from 88 250-watt bulbs to 18-watt bulbs yields a difference in total wattage of 20,400 watts. In addition to the reduction in energy usage, the new bulbs generate no heat (compared to the old bulbs, which were each so hot they could only be moved or re-oriented while wearing thermal gloves. The new lights are also designed to last up to a decade each, as opposed to the older bulbs that burned out after 18-24 months, thus yielding a substantial reduction in waste.

Outreach

We publicized our Sustainability Fee grant and project with a press release we sent around to local and campus media. This yielded articles on the Georgia Southern News web page, the College of Arts and Humanities web page, and the art department web page (see accompanying PDFs). The

publicity reached a broad audience, as the story was listed on the MyGeorgiaSouthern landing page, and on the MyGeorgiaSouthern portal (see accompanying screenshots).

We also publicized the project and grant on the art department’s Instagram, Twitter and Facebook pages, as well as on the art gallery’s Facebook page (see accompanying PDFs).

We are in the process of having placards made for the entrances to all three high-traffic galleries (I’ve met with the campus Interiors Specialist and have submitted the work order, but the signs are still in production).

Budget report

The grant amount for this project was \$12,457.40, which is the amount spent. This amount broke down to the following types of gallery-specific lights:

Fifty-two LED flood lights:	\$ 7,114.64
Eighteen LED narrow flood lights:	\$ 2,880.00
Eighteen LED spot lights:	<u>\$ 2,462.76</u>
TOTAL:	\$12,457.40

II. Student and Community Impact

Students employed:

My gallery crew consists of two undergraduate assistants and one graduate assistant. All three of them worked extensively with me to research, test, and install the new bulbs/fixtures.

Community outreach and students reached:

The Center for Art and Theatre art galleries are a heavily trafficked area of the Georgia Southern campus, visited frequently by students, alumni, prospective students, faculty and staff, campus visitors, members of the community, and GSU senior administrators—up to and including the university president. Not only do we exhibit work by nationally and regionally acclaimed artists, we also devote roughly half of the year’s exhibition programming to exhibiting work by our students, through juried shows, required thesis exhibitions, and so forth. In addition, such events as the CLASS Advisory Council and the Provost’s Office host events here 2 – 4 times per year, and a number of classes, both within and without the art department, have lectures or do field trips to the galleries as well. Besides the reduction of waste and projected savings by switching from 88 250-watt to 88 18-watt bulbs, the lowered heat-generation has been good too: with 88 high-watt bulbs on for eight hours a day, the galleries would get stuffy very quickly when people attended events.

Grant Leverage

Not really applicable, other than bragging rights and pointing out the new and improved lighting to frequent gallery visitors.

Project abstract

With this Sustainability Fee Project Grant we have been able to reduce waste and improve the energy efficiency of the galleries in the Georgia Southern Center for Art and Theatre. With this grant we have been able to replace the eighty-eight 250-watt halogen bulbs and fixtures previously in use, which tended to last two years or less, with eighty-eight equivalent LED bulbs and fixtures that use only 18-watts—an energy savings of over 20,000 watts—and which last up to a decade. In addition to the reduction in the bulbs’ direct energy usage, the climate control savings should be substantial as well: the gallery lights are on from 9am to 5pm Monday through Friday all year long, and the older 250-watt bulbs

generated substantial amounts of heat that kept the building's air conditioning busy even when it is not particularly hot outside.

Links to publicity:

- *Georgia Southern News*: <https://news.georgiasouthern.edu/my/2018/07/09/center-for-art-theatre-upgrades-gallery-lighting-with-12k-sustainability-grant/>
- *Instagram*: <https://www.instagram.com/p/BIA1Y4AAD08/?taken-by=bfsdoart>
- *Twitter*: <https://twitter.com/BFSDoArt/status/1016317133448536064>
- *Facebook (CAT page)*: <https://www.facebook.com/CenterForArtAndTheatre/>
- *Facebook (BFSDoArt page)*: <https://www.facebook.com/BFSDoArt/>
- *Georgia Southern College of Arts and Humanities page*:
<http://cah.georgiasouthern.edu/cat/2018/07/06/center-for-art-theatre-upgrades-gallery-lighting-with-12k-sustainability-grant/>
- *Georgia Southern Art Dept. Homepage*: <http://cah.georgiasouthern.edu/art/2018/07/09/center-for-art-theatre-upgrades-gallery-lighting-with-12k-sustainability-grant/>
- *MyGeorgiaSouthern landing page*: <https://my.georgiasouthern.edu/> (see accompanying screenshot)
- *MyGeorgiaSouthern portal*: <https://my.georgiasouthern.edu/portal/portal.php> (see accompanying screenshot)

Photographs:

The accompanying two photographs show (1) the process of swapping out the old lights for the new last winter/spring, once we finally had everything on hand, and (2) side-by-side comparisons of the old and new lights, since the new ones are so small they don't show up very well when photographed in context.