

Rec 9/30/11

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MTSU Clean Energy Initiative Project Funding Request

There are five (5) sections of the request to complete before submitting. See <http://www.mtsu.edu/~sga/cleanenergy.shtml> for funding guidelines. Save completed form and email to cee@mtsu.edu or mail to MTSU Box 57.

1. General Information	
Name of Person Submitting Request Heather Cavitt	
Department/Office Construction Renovation	Phone # (Office) 898-2349
MTSU Box # P.O. Box 32	Phone # (Cell)
E-mail hcavitt@mtsu.edu	Submittal Date 09/29/11

2. Project Categories (Select One)	
Select the category that best describes the project.	
<input checked="" type="checkbox"/> Energy Conservation/Efficiency	<input type="checkbox"/> Sustainable Design
<input type="checkbox"/> Alternative Fuels	<input type="checkbox"/> Other
<input type="checkbox"/> Renewable Energy	

3. Project Information
<p>a. Please provide a brief descriptive title for the project.</p> <p>b. The project cost estimate is the expected cost of the project to be considered by the committee for approval, which may differ from the total project cost in the case of matching funding opportunities. Any funding request is a 'not-to-exceed' amount. Any proposed expenditure above the requested amount will require a resubmission.</p> <p>c. List the source of project cost estimates.</p> <p>d. Provide a brief explanation in response to question regarding previous funding.</p>
3a. Project Title Murphy Center Dance Studio A & B LED Lamps
3b. Project Cost Estimate \$5,729.00
3c. Source of Estimate Manufacture information and KWH calculation
3d. If previous funding from this source was awarded, explain how this request differs?

4. Project Description

(Completed in as much detail as possible.)

- a. The scope of the work to be accomplished is a detailed description of project activities.
- b. The benefit statement describes the advantages of the project as relates to the selected project category.
- c. The location of the project includes the name of the building, department, and/or specific location of where the project will be conducted on campus.
- d. List any departments you anticipate to be involved. Were any departments consulted in preparation of this request? Who? A listing may be attached to this form when submitted.
- e. Provide specific information on anticipated student involvement or benefit.
- f. Provide information for anticipated future operating and/or maintenance requirements occurring as a result of the proposed project.
- g. Provide any additional comments or information that may be pertinent to approval of the project funding request.

4a. Scope: Work to be accomplished

The scope of this project is to remove (50) 90 watt - plus incandescent lamps and replace with 8 watt LED (Light Emitting Diode) lamps. All incandescent lamps are to be recycled.

4b. Scope: Benefit Statement

The benefits of the LED lamps are multiple. The LED lamps have a lower energy consumption that promotes environmentally friendly. They contain no Mercury, no Lead. In comparison to incandescent lamps, LED lamps have lower CO2 emissions than incandescent; 451 lbs/year vs. 4500 lbs/year.

LED's do not have special recycling issues.

LED is made with recycled plastics.

4. Project Description (continued)
<p>4c. Location of Project (Building, etc.) Murphy Center: Dance Studio "A" & "B"</p>
<p>4d. Participants and Roles Facility Services - Purchase LED lamps and remove/recycle incandescent lamps. Vendor - Supply LED lamps.</p>
<p>4e. Student participation and/or student benefit The students will have a better quality of light that is dimmable for compatibility with building dimming systems.</p>
<p>4f. Future Operating and/or Maintenance Requirements Lamp replacement on average of 10 years.</p>
<p>4g. Additional Comments or Information Pertinent to the Proposed Project The ROI, or Return on Investment, has a payback of less than 2 years. This project will assist in providing an atmosphere that will promote a better learning environment and assist in protecting the environment.</p>

5. Project Performance Information

Provide information if applicable.

- a. Provide information on estimated annual energy savings stated in units such as kW, kWh, Btu, gallons, etc.
- b. Provide information on estimated annual energy cost savings in monetary terms.
- c. Provide information on any annual operating or other cost savings in monetary terms. Be specific.
- d. Provide information about any matching or supplementary funding opportunities that are available. Identify all sources and explain.

5a. Estimated Annual Energy Savings (Estimated in kW, kWh, Btu, etc.)

11432.0 kwh.

5b. Annual Energy COST Savings (\$)

\$731.50

5c. Annual Operating or Other Cost Savings. Specify. (\$)

Labor cost savings after initial investment: \$4200.00 per year on average for up to 10 years.

Recycling savings: \$28.50 annually

5d. Matching or Supplementary Funding (Identify and Explain)