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9/28/23

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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 Kristin England	
Department/Office Facilities Services	Phone # (Office) 615-898-2306
MTSU Box # Box 32	Phone # (Cell)
E-mail kristin.england@mtsu.edu	Submittal Date 9/28/23

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	LED Lighting for McFarland Building
3b. Project Cost Estimate	12,000
3c. Source of Estimate	Lighting estimation and market prices with in-house labor estimate
3d. If previous funding from this source was awarded, explain how this request differs?	NA

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

To replace all of the overhead bulbs in the McFarland Building to LED bulbs. This would change all the current 4' T8 bulbs using 32W per hour to more efficient LED bulbs requiring only 17W per hour. Would also replace all CFLs to more efficient LED bulbs.

4b. Scope: Benefit Statement

Changing all of the 340 current 4' T8 bulbs to similar sized LED bulbs would result in a reduction of 15W per bulb, 5.1kW overall. Would also replace about 40 CFLs resulting in a energy demand savings of 360W.

4. Project Description (continued)
4c. Location of Project (Building, etc.) McFarland Building, whole building.
4d. Participants and Roles Engineering Services Systems Engineer Facilities Services Shop 40
4e. Student participation and/or student benefit Reduced energy cost for the campus and a more energy efficient campus.
4f. Future Operating and/or Maintenance Requirements Reduced future maintenance due to longer bulb life for LEDs (100,000 hours vs 36,000 hours).
4g. Additional Comments or Information Pertinent to the Proposed Project

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.)

5.5kW saved totaling about 16,000kWh saved each year.

5b. Annual Energy COST Savings (\$)

\$2,100 (estimated)

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

\$170 in Maintenance Cost per year from reduced need to relamp as bulbs fail.

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