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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 Gerald Grimes	
Department/Office Building Services	Phone # (Office) 494-8671
MTSU Box # P.O. Box 32	Phone # (Cell)
E-mail hgrimes@mtsu.edu	Submittal Date 09/30/2011

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 Walker Library Atrium Lighting
3b. Project Cost Estimate \$19,366.00
3c. Source of Estimate Manufacturer information and Facility Services
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

Scope of work is to remove and replace (10) 400 watt metal halide lighting fixtures located in the atrium of Walker Library with (10) 180 watt LED fixtures and lamps. Metal halide lamps and ballasts are to be recycled.

4b. Scope: Benefit Statement

The benefit of this project includes, savings on electrical consumption (drawing 180w instead of 400w per hour).

With anticipated life cycle of 10 years, this fixture produces a savings from replacement cost of lamps, ballast replacement, recycling costs, utility cost savings and hours of electrician labor costs..

4. Project Description (continued)
4c. Location of Project (Building, etc.) James E. Walker Library Atrium
4d. Participants and Roles Manufacturer of lamps and fixture, and Facility Services personnel.
4e. Student participation and/or student benefit Improved lighting for study areas.
4f. Future Operating and/or Maintenance Requirements Replace lamps at end of life cycle, estimated 10 years.
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.)

400w Metal Halide $*(10)(24)(365.25)/1000= 35064.0$ kWh/Year
 180w LED $*(10)(24)(365.25)/1000= 15,778.8$ kWh/Year
 Savings of 19,285.2 kWh/Year

5b. Annual Energy COST Savings (\$)

\$2,892.78

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

Estimated savings over 6 years total over \$29,000.00

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