Rec 2/18/16

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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 Scott Martindale	
Department/Office Building Services	Phone # (Office) 898-2877
MTSU Box # 32	Phone # (Cell)
E-mail scott.martindale@mtsu.edu	Submittal Date 02/18/2016

2. Project Categories (Select One)			
Select the category that best describes the project.			
X	Energy Conservation/Efficiency		Sustainable Design
	Alternative Fuels		Other
	Renewable Energy		

3. Project Information
a. Please provide a brief descriptive title for the project. **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.** c. List the source of project cost estimates. d. Provide a brief explanation in response to question regarding previous funding.
3a. Project Title VET 118 LIGHTING REPLACEMENT
3b. Project Cost Estimate $5,930.00
3c. Source of Estimate Manufactur cost and RSMeans estimating program.
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 work includes the removal and replacement of existing safety sleeved T-8 lamps and ballasts with improved lighting technologies. This technology is an LED lamp that will not require the use of sleeves to protect from glass if broken.

4b. Scope: Benefit Statement

The benefit of this project is to improve the lighting levels within the machine shop (Room 118). This will also improve safety as well as decrease the energy consumption for a lab that is operational 24 hours a day. Changing lamps takes additional time and interfers with the usage of equipment due to the safety sleeves.

4. Project Description (continued)

4c. Location of Project (Building, etc.)

The location is room 118 Voorhies Engineering Technology

4d. Participants and Roles

Participants include product supplier and Facilities personnel.

4e. Student participation and/or student benefit

The student benefit is improved lighting levels that promote safety and accuracy and less interruptions from Facilities personnel to replace lamps.

4f. Future Operating and/or Maintenance Requirements

With an anticipated lifespan of 50,000 hours (5 years plus), future operating requirements are expected to be minimal.

4g. Additional Comments or Information Pertinent to the Proposed Project

Current t-8 lamps have an expected lifespan of 20,000 hours or roughly 2 years. The quantity of lamps in the lab, 118, can result in problematic outtages due to the quality of lamps used.

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.)

22740.96 kWh

5b. Annual Energy COST Savings ($)

$2,946.46 with a lifetime savings of $16,817.36

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

The return on investment (ROI) is 0.75 years.
The total annual operating cost per lamp/system is $16.54 / $1,951.72.

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