Rec 10/3/14 (1)

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 Toney Flack	
Department/Office Cope Basement – Information Technology	Phone # (Office) 615-904-8052
MTSU Box # Cope 003A	Phone # (Cell) 615-525-8993
E-mail Toney.Flack@mtsu.edu	Submittal Date 10/03/2014

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 Lights Out Cope Data Center
3b. Project Cost Estimate $1,316.21

3c. Source of Estimate
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

Rewire light switches in Cope Basement Room 004 (Data Center).

4b. Scope: Benefit Statement

Rewire light switches in Cope 004 so that now that all personnel have been removed from the Data Center, we can leave those fluorescent ceiling lights off at all times. Right now the switch controls those lights but also some that are in use by personnel during the day, outside of the Data Center.

4. Project Description (continued)

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

Quill E. Cope Administrative building, basement.

4d. Participants and Roles

Craig Electric, electrician.

John Schmidt or Toney Flack – MTSU ITD personnel needed to provide access (ID card and lock code) to Cope Data Center.

4e. Student participation and/or student benefit

Student participation – none. Student benefit.

4f. Future Operating and/or Maintenance Requirements

None.

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

None.

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.)

From Joe Whitefield to Tom Wallace 09/22/2014

Tom,

Most T8 lamps are 32 watts. Average electrical rate is approximately $0.09/kwh

Here is how I would calculate the savings:

24 fixtures x 2 lamps/fixture x 32 watts/lamp = 1,536 watts = 1.536 kw

1.536 kw x (120 hrs – 8 hrs) = 172 kwh/week (weekly energy savings)

5b. Annual Energy COST Savings ($)

172 kwh/wk x $0.09/kwh = $15.48/wk (weekly cost savings)

$15.48/wk x 52 wks/yr = $805/yr (annual cost savings)

With $1,316.21 investment and $805 annual savings, the simple payback is approximately 1.6 years.

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

None.

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

None.

Linda Hardymon

From: Toney Flack
Sent: Friday, October 03, 2014 8:29 AM
To: Center for Energy Efficiency
Cc: Tom Wallace; Robin Jones; Chad Mullis; John N. Schmidt
Subject: Cope Basement Data Center Lighting Sustainable Campus Project Submission Form Fall 2014
Attachments: Green Form Cope Fall 2014.docx

Please let me know if you require any further information of a different format. I did the best I could with the Word document. Cost of the project is about $1.3k one-time, no recurring maintenance or anything. Electrical use savings is $800/year ad infinitum.

Best,

Toney