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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.htm> for funding guidelines.

### 1. General Information

Name of Person Submitting Request : Norman Buck	
Department/Office : Energy Services	Phone # (Office) 615-898-2435
MTSU Box # 32	Phone # (Cell) 615-631-0876
E-mail : Norman.buck@mtsu.edu	Submittal Date 1-30-2019

### 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

- Please provide a brief descriptive title for the project.
- 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.**
- List the source of project cost estimates.
- Provide a brief explanation in response to question regarding previous funding.

3a. Project Title : Siemens controls for Variable Air Volume boxes-Walker Library(for 26 boxes)

3b. Project Cost Estimate : \$10,560

3c. Source of Estimate : Siemens Building Technologies and MTSU

3d. If previous funding from this source was awarded, explain how this request differs? n/a

**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**

Installing Siemens controls for VAV's boxes in Walker Library which will control the air flow thru each box. Allowing the VAV boxes not to dump unnecessary air into heated and cooled spaces. MTSU will reduce its kwh

**4b. Scope: Benefit Statement**

The controls will reduce the frequency on the motor from 60hz to 45hz resulting in a 25% reduction in hz. When the cubic feet per minute of air slows down the reheats do not have to heat up as much air which will add to energy savings.

<b>4. Project Description (continued)</b>
4c. Location of Project (Building, etc.) Walker Library
4d. Participants and Roles  Les Mayberry – Project Coordinator
4e. Student participation and/or student benefit  n/a
4f. Future Operating and/or Maintenance Requirements  n/a
4g. Additional Comments or Information Pertinent to the Proposed Project n/a

**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.) Estimated energy saved is 295,650 kWh/year

5b. Annual Energy COST Savings (\$) 32,521 per year. Saving will continue for at least 15 years saving MTSU another \$487,822. This project will pay for itself in 3 months.

5c. Annual Operating or Other Cost Savings. Specify. (\$) none

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