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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 :Leslie Mayberry	
Department/Office : Energy Services	Phone # (Office) 615-904-8356
MTSU Box # 32	Phone # (Cell) 615-238-7391
E-mail : les.mayberry@mtsu.edu	Submittal Date 9-26-2019

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 : Synthetic Media Pocket Filter-(Recreation Center, Recreation Center phase 1 of 2)

3b. Project Cost Estimate : \$11,261

3c. Source of Estimate : Viledon, MTSU, S&M Lawrence

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

This project will replace pleated filters and in Recreation Center. This project will save energy by lowering the pressure drop across the AHU filter bank and slowing the units motor down. The motor will use less kwh saving energy.

4b. Scope: Benefit Statement

If this project is approved it will reduce Co₂ emissions, reduce the volume of filters being disposed to Murfreesboro land field, and seal off filter banks (no escape of air around filter banks). The 72% of the existing filters are MERV 8 (40-50% efficiency) the new filter are MERV 13 (80-90% efficiency) double the efficiency. Higher MERV ratings mean fewer dust particles and other airborne contaminants pass through the filter.

4. Project Description (continued)
4c. Location of Project (Building, etc.) Recreation Center phase 1 of 2
4d. Participants and Roles Les Mayberry – Project Coordinator
4e. Student participation and/or student benefit n/a
4f. Future Operating and/or Maintenance Requirements No maintenance over the life of filters.
4g. Additional Comments or Information Pertinent to the Proposed Project <ul style="list-style-type: none">- Filters are guaranteed for 2 years by Viledon- Filters also will be monitored by Viledon for quality assurance

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 85500 kWh/year

5b. Annual Energy COST Savings (\$) \$8,550 per year. Filters are guaranteed for two years **(MTSU ENERGY COST SAVINGS OVER THREE YEARS \$25,650). This project can be completed in two phase.**

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

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