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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 Keith Jacks Gamble	
Department/Office Economics and Finance Dept	Phone # (Office) 615-898-2520
MTSU Box # 27	Phone # (Cell)
E-mail keith.gamble@mtsu.edu	Submittal Date 9/22/2017

2. Project Categories (Select One)	
Select the category that best describes the project.	
<input checked="" type="checkbox"/> Energy Conservation/Efficiency	<input checked="" 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 Student Engagement Space Water Bottle Filling Station
3b. Project Cost Estimate \$3,600
3c. Source of Estimate Product, materials, and labor cost history from previous installations.
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

An existing/dated water fountain will be removed from its current location. Wall will be patched and prepared for the mounting of a new bottle filling station. Minor plumbing modifications will be required to tie the existing inlet water supply to the bottle filling station unit.

4b. Scope: Benefit Statement

The green savings generated through the conservation of plastic water bottles being used. A typical filling station saves over a million plastic bottles from being manufactured, transported and dumped into landfills. Resulting in major reductions of energy use.

Additionally, the water filler will provide health benefits as students will drink more water and less carbonated sodas. The hands-free bottle filler also eliminates germs and other viruses from spreading through shared communal contact which out-dated fountains are notorious for.

4. Project Description (continued)
<p>4c. Location of Project (Building, etc.) The location would be outside of the restrooms and adjacent to the newly renovated student engagement space in the Business and Aerospace building.</p>
<p>4d. Participants and Roles The Construction Renovation Department will oversee the preparation and installation.</p>
<p>4e. Student participation and/or student benefit Provide convenient access to a bottle filling station for the many students expected to utilize the new student engagement space. Convenient water stations promote student health.</p>
<p>4f. Future Operating and/or Maintenance Requirements Beyond replacing water filters on a periodic basis, no scheduled maintenance is required.</p>
<p>4g. Additional Comments or Information Pertinent to the Proposed Project MTSU and the Jones College of Business continue to provide the best programs and facilities for attracting and educating students for success.</p>

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.)

Gleick and Cooley found that producing bottled water requires between 5.6 and 10.2 million joules of energy per liter, depending on transportation factors (a typical personal-sized water bottle is about 0.5 liters). That's up to 2,000 times the energy required to produce tap water, which costs about 0.005 million joules per liter for treatment and distribution.

Read more at: <https://phys.org/news/2009-03-energy-bottle.html#jCp>

5b. Annual Energy COST Savings (\$)

N/A

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

N/A

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

N/A