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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](mailto:cee@mtsu.edu) or mail to MTSU Box 57.

1. General Information	
Name of Person Submitting Request Jason Young	
Department/Office Grounds Services	Phone # (Office) 615-904-8316
MTSU Box # 32	Phone # (Cell) 615-533-4816
E-mail <a href="mailto:jason.young@mtsu.edu">jason.young@mtsu.edu</a>	Submittal Date 10/6/17

2. Project Categories (Select One)	
Select the category that best describes the project.	
<input checked="" type="checkbox"/> Energy Conservation/Efficiency	<input type="checkbox"/> Sustainable Design
<input checked="" 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. <b>Any funding request is a 'not-to-exceed' amount. Any proposed expenditure above the requested amount will require a resubmission.</b></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 Propane Powered Mower
3b. Project Cost Estimate \$13,000
3c. Source of Estimate TriGren Equipment
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

Replacing another gas mower with a John Deere Z930M propane powered zero-turn mower. The MTSU grounds crew work to maintain all MTSU property. The university currently has two propane powered mowers. The propane mower requires less maintenance due to the cleaner burning fuel. A propane mower will also help to reduce CO2 emissions, maintenance, and cost.

##### 4b. Scope: Benefit Statement

The primary benefit of this project is the reduced annual cost of operating. Additional benefits include lower fuel and maintenance costs, increased efficiency, and promoting alternative fuels.

<b>4. Project Description (continued)</b>
<p>4c. Location of Project (Building, etc.)</p> <p>Multiple areas of campus. The propane mowers will primarily be used where students can see them in operation and see the results.</p>
<p>4d. Participants and Roles</p> <p>Grounds Services will receive the mower and will operate the mower.</p>
<p>4e. Student participation and/or student benefit</p> <p>The propane mower would promote green energy on MTSU's campus and encourage students to use alternative fuels. Also, propane engines produce less sound making it less disruptive for people across campus.</p>
<p>4f. Future Operating and/or Maintenance Requirements</p> <p>Lower maintenance requirements than gas mowers. Propane is more efficient, therefore less fill-ups. Propane tanks from previous mowers can be used. Propane mowers are easier to store during the winter because it doesn't corrode like gas engines.</p>
<p>4g. Additional Comments or Information Pertinent to the Proposed Project</p> <p>Energy efficiency is growing at MTSU and across the US. Feel free to come by and see one of our propane mowers that we are already using to help be more energy efficient.</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.)

A propane mower is estimated to be 30% more efficient and cost less per hour of operation.

5b. Annual Energy COST Savings (\$)

Depending on the cost of gas and propane, a propane mower could save up to \$2,000 annually.

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

Propane engines typically last longer than gas.

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

