

Rec
10/1/21



MTSU Clean Energy Initiative Project Funding Request

There are five (5) sections of the request to complete before submitting.

1. General Information	
Name of Person Submitting Request: Tony Gentile	
Department/Office Facilities Services	Phone # (Office) 904-8374
MTSU Box # 0032	Phone # (Cell)
E-mail Anthony.Gentile@mtsu.edu	Submittal Date 10/1/2021

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 type="checkbox"/>	Alternative Fuels	<input type="checkbox"/>	Other
<input type="checkbox"/>	Renewable Energy	<input type="checkbox"/>	

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>
3a. Project Title: Heat exchanger for Condensate Return System Central Utility Plant
3b. Project Cost Estimate \$11000
3c. Source of Estimate Supplier/In house

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 information for anticipated future operating and/or maintenance requirements occurring as a result of the proposed project.
- f. Provide any additional comments or information that may be pertinent to approval of the project funding request.

4a. Scope: Work to be accomplished

Heat exchanger for condensate return system Central plant

Labor and material to purchase exchanger and install piping system downstream of polisher.

4b. Scope: Benefit Statement

Purpose to keep hot condensate from flashing and damaging internals to polishers. Installing heat exchanger downstream of condensate tank. Cooling the return condensate before it enters deaerator basically controlling temperature up stream of deaerator will result in less steam to maintain pressure of deaerator. The cooler temperature will result in less loss due to flashing and results in savings to the boiler plant.

4. Project Description (continued)
<p>4c. Location of Project (Building, etc.)</p> <p>Central Utility Plant</p>
<p>4d. Participants and Roles</p> <p>Facilities Engineer: Consult</p> <p>Boiler Plant supervisor: Monitor work</p> <p>Contractor: Provide material and labor to replace</p>
<p>4e. Future Operating and/or Maintenance Requirements</p> <p>Boiler Operators: Mechanical adjustments to systems to optimize performance.</p>
<p>4f. Additional Comments or Information Pertinent to the Proposed Project</p> <p>n/a</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.)

TBD

5b. Annual Energy COST Savings (\$)

TBD

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

TBD

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

n/a